

## YOWSOM YXSM789

# YOWSOM LONCIN LX200-M 200AU CVT175 Motorcycle Starter Motor Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the YOWSOM Motorcycle Starter Motor, compatible with LONCIN LX200-M, 200AU, and CVT175 models. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of the product.

## 2. PRODUCT FEATURES

- **Compatibility:** Designed for LONCIN LX200-M, 200AU, and CVT175 motorcycles.
- **Function:** Converts electrical energy from the battery into mechanical energy to rotate the engine's flywheel, initiating engine start.
- **Durability:** Constructed with waterproof and durable materials for extended service life.
- **Installation:** Features a simple installation process, designed to replace original parts without complex steps.
- **Brush Type:** Carbon brush type.

## 3. SETUP AND INSTALLATION

The starter motor is designed for straightforward installation. While the process is generally simple, it is recommended that installation be performed by individuals with appropriate mechanical knowledge to ensure correct and safe integration with the motorcycle's electrical system.

1. **Safety First:** Before beginning installation, ensure the motorcycle's battery is disconnected to prevent electrical shorts or injury.
2. **Locate Original Starter:** Identify the existing starter motor on your LONCIN LX200-M, 200AU, or CVT175 motorcycle.
3. **Remove Original Starter:** Carefully disconnect all wiring and mounting bolts securing the old starter motor. Note the orientation and connection points for reassembly.

4. **Install New Starter:** Position the YOWSOM starter motor in the same location as the removed unit. Secure it with the appropriate mounting bolts.
5. **Connect Wiring:** Reconnect the electrical wiring to the new starter motor. Ensure all connections are tight and secure.
6. **Reconnect Battery:** Once the starter motor is securely mounted and wired, reconnect the motorcycle's battery.
7. **Test Functionality:** Perform a test start to confirm the starter motor operates correctly.



**Figure 3.1:** Side view of the YOWSOM Motorcycle Starter Motor, showing the main body and gear shaft. This image illustrates the compact design and primary components of the starter motor.



**Figure 3.2:** Angled view of the YOWSOM Motorcycle Starter Motor, highlighting the electrical connections and mounting

bracket. This image provides a perspective on how the wiring connects to the unit and its mounting points.

## 4. OPERATING INSTRUCTIONS

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The starter motor's operation is integrated with your motorcycle's ignition system. When the ignition key is turned to the 'start' position or the start button is pressed, electrical current flows from the battery to the starter motor. The starter motor then engages with the engine's flywheel, rotating it to initiate the combustion process and start the engine.

- Ensure the motorcycle is in neutral or the clutch is engaged (if applicable) before attempting to start.
- Turn the ignition key to the 'ON' position.
- Press the start button. The starter motor will engage and crank the engine.
- Release the start button once the engine has started. Avoid prolonged cranking to prevent overheating the starter motor or draining the battery.

## 5. MAINTENANCE

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Regular maintenance helps ensure the longevity and reliable operation of your starter motor.

- **Visual Inspection:** Periodically inspect the starter motor and its wiring for any signs of damage, corrosion, or loose connections.
- **Cleanliness:** Keep the starter motor free from excessive dirt, mud, and debris. While the unit is waterproof, maintaining cleanliness prevents buildup that could affect performance or heat dissipation.
- **Battery Health:** Ensure your motorcycle's battery is in good condition and fully charged. A weak battery can strain the starter motor.
- **Connection Integrity:** Verify that all electrical connections to the starter motor are tight and free of corrosion.

## 6. TROUBLESHOOTING

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If you encounter issues with your starter motor, consider the following common troubleshooting steps:

- **Engine Does Not Crank:**
  - Check battery charge level. A discharged battery is a common cause.
  - Inspect battery terminals and starter motor connections for looseness or corrosion.
  - Verify the motorcycle's kill switch is in the 'RUN' position and the transmission is in neutral.
- **Slow Cranking:**
  - Indicates a weak battery or poor electrical connections. Recharge or replace the battery.
  - Check for excessive resistance in the wiring.
- **Clicking Sound, No Crank:**
  - Often points to a low battery charge or a faulty starter solenoid.
- **Starter Motor Runs, Engine Does Not Engage:**
  - May indicate an issue with the starter motor's Bendix drive or flywheel engagement. Professional inspection may be required.

If these steps do not resolve the issue, it is advisable to consult a qualified motorcycle mechanic.

## 7. SPECIFICATIONS

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Attribute	Specification
Model Number	YXSM789
Compatibility	LONCIN LX200-M, 200AU, CVT175
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	4.41 pounds
Number of Pieces	1
Assembly Required	No

## 8. SUPPORT

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Customer satisfaction is important. If you have any questions, concerns, or if the starter motor does not meet your expectations, please contact the seller directly. They are committed to addressing all inquiries promptly.