

## ATV

# ATV Electric Starter Motor User Manual

Model: ATV | Brand: Generic

## INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your new ATV Electric Starter Motor. This starter motor is a standard replacement part designed to fit all Coleman ATVs equipped with the 50-125cc Honda Type horizontal cylinder engine that utilizes a top-mount starter. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## SAFETY INFORMATION

Always prioritize safety when working with ATV components. Failure to follow these safety guidelines may result in injury or damage to the product or ATV.

- Disconnect Battery:** Before beginning any installation or maintenance, always disconnect the ATV's battery to prevent accidental electrical shorts or starting.
- Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses and gloves.
- Consult ATV Manual:** Refer to your ATV's specific service manual for detailed instructions on starter motor removal and installation procedures.
- Professional Installation:** If you are unsure about any step, seek assistance from a qualified mechanic.
- Secure Connections:** Ensure all electrical connections are clean, tight, and properly insulated to prevent arcing or short circuits.
- Proper Tools:** Use the correct tools for the job to avoid damaging fasteners or components.

## PARTS LIST

Your package should contain the following item:

- 1 x ATV Electric Starter Motor (Top Mount)

*Note: Additional mounting hardware or gaskets are typically not included with the starter motor itself and should be reused from the original installation or purchased separately if needed.*

## SETUP AND INSTALLATION

This section outlines the general steps for replacing your ATV's electric starter motor. Specific procedures may vary slightly depending on your ATV model. Always refer to your ATV's service manual for precise instructions.

## 1. Preparation:

- Park the ATV on a flat, stable surface.
- Ensure the engine is cool.
- Disconnect the negative (-) terminal of the ATV battery, followed by the positive (+) terminal.

## 2. Locate the Old Starter Motor:

The starter motor is typically located on the top or side of the engine, often near the flywheel or transmission housing. For top-mount starters, it will be accessible from the top of the engine.



*Image: Front view of the ATV Electric Starter Motor, showing the drive gear and mounting points. This is the primary component for engine cranking.*

## 3. Disconnect Wiring:

Carefully disconnect the main power cable (usually a thick cable from the battery/solenoid) and the smaller control wire (from the ignition switch/starter relay) from the old starter motor. Note their positions for reinstallation.

## 4. Remove Mounting Bolts:

Unscrew the bolts that secure the starter motor to the engine block. There are typically two or three mounting bolts. Support the starter motor as you remove the last bolt to prevent it from falling.



*Image: Rear view of the ATV Electric Starter Motor, highlighting the mounting holes and the motor casing. This view shows how the unit attaches to the engine.*

#### **5. Install New Starter Motor:**

- Clean the mounting surface on the engine block.
- Carefully position the new starter motor into place, ensuring the drive gear aligns correctly with the flywheel.
- Insert and hand-tighten the mounting bolts.
- Tighten the mounting bolts to the torque specifications recommended in your ATV's service manual. Do not overtighten.

#### **6. Reconnect Wiring:**

- Reconnect the main power cable and the control wire to the new starter motor. Ensure connections are secure and free of corrosion.
- Reconnect the positive (+) battery terminal, then the negative (-) battery terminal.

#### **7. Test Functionality:**

Attempt to start the ATV. The starter motor should engage smoothly and crank the engine. Listen for any unusual noises.

## OPERATING

The electric starter motor is an integral part of your ATV's starting system. Its operation is automatic when the ignition key is turned to the "START" position or the start button is pressed. It converts electrical energy from the battery into mechanical energy to crank the engine until it starts. No direct user interaction is required beyond initiating the start sequence.

Ensure your ATV's battery is fully charged and in good condition for optimal starter performance. A weak battery can lead to slow cranking or failure to start.

## MAINTENANCE

The ATV Electric Starter Motor is designed for durability and typically requires minimal maintenance. However, periodic checks can help ensure its longevity and reliable operation:

- **Inspect Connections:** Periodically check all electrical connections to the starter motor and battery for tightness and corrosion. Clean any corroded terminals with a wire brush and battery terminal cleaner.
- **Battery Health:** Ensure your ATV's battery is well-maintained and holds a proper charge. A failing battery can put undue strain on the starter motor.
- **Mounting Security:** Occasionally check that the starter motor's mounting bolts are secure. Vibrations from ATV operation can sometimes loosen fasteners.
- **Listen for Unusual Noises:** Pay attention to any grinding, whirring, or clicking sounds during startup that might indicate an issue with the starter motor or its engagement with the flywheel.

## TROUBLESHOOTING

If you experience issues with your ATV's starting system, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Starter motor does not turn or clicks once.	Dead or weak battery; Loose or corroded battery terminals; Faulty starter solenoid; Faulty ignition switch.	Charge or replace battery; Clean and tighten battery terminals; Test/replace solenoid; Test/replace ignition switch.
Starter motor cranks slowly.	Weak battery; Loose or corroded connections; High resistance in wiring; Internal starter motor issue.	Charge or replace battery; Clean and tighten all connections; Inspect wiring for damage; Consider starter motor replacement if other issues are ruled out.
Starter motor spins but engine does not crank.	Bendix gear not engaging flywheel; Damaged flywheel teeth.	Inspect starter motor bendix gear and flywheel teeth for damage. Replacement of starter or flywheel may be necessary.
Grinding noise during starting.	Misalignment of starter motor; Damaged bendix gear or flywheel teeth.	Recheck starter motor mounting; Inspect bendix gear and flywheel for wear or damage.

If these troubleshooting steps do not resolve the issue, it is recommended to consult a professional ATV mechanic.

## SPECIFICATIONS

Feature	Detail
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Feature	Detail
Product Type	ATV Electric Starter Motor
Model Number	ATV
Brand	Generic
Compatibility	Coleman ATVs with 50-125cc Honda Type horizontal cylinder engine (top mount starter)
Material	Alloy Steel
Voltage	12 Volts (DC)
Phase Type	Three Phase
Package Dimensions	7 x 5 x 5 inches
Weight	2 Pounds
Manufacturer	OBPD

## WARRANTY AND SUPPORT

This product is a standard replacement part. For specific warranty information, please refer to the terms and conditions provided by your retailer at the time of purchase. For technical support or further assistance, please contact the manufacturer, OBPD, or your product supplier.

Always confirm fitment before ordering or installing to ensure compatibility with your specific ATV model.