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› Artudatech Starter Motor Instruction Manual for Kawasaki KFX50 and Kymco ATV/Scooter Models

Artudatech M553-A206~AR

Artudatech Starter Motor Instruction Manual

Brand: Artudatech | Model: M553-A206~AR

1. INTRODUCTION

This instruction manual provides essential information for the Artudatech Starter Motor, Model M553-A206~AR. This component is designed as a direct replacement for specific Kawasaki and Kymco ATV/scooter models. Please read this manual thoroughly before installation and operation to ensure proper function and safety.



Image: The Artudatech Starter Motor, showcasing its overall design and compact form factor.

2. PRODUCT FEATURES

- New starter unit, not a remanufactured or refurbished component.
- High-quality magnets or field coils deliver strong torque for quick starts.
- Designed for individual vehicle power consumption, ready for installation.
- Engineered to perform like the original starter in your vehicle or power equipment.
- New armatures are precision-manufactured and tested for long service life.
- Suitable for replacing existing starter motors.
- Constructed from high-quality aluminum material, ensuring lightweight, anti-rust, colorfast, and durable performance.
- Each unit undergoes testing to ensure stable performance and high reliability.



Image: Angled view of the Artudatech Starter Motor, showing the robust casing and wiring.

3. COMPATIBILITY

This starter motor is compatible with the following vehicle models:

- Kawasaki KFX50 KFX 50 ATV (2007-2020)
- Kymco Agility Carry 50 (2011-2014)
- Kymco People S 50 (Up to 2006-2009)
- Kymco VP 50 (2012-2015)

Note: Compatibility is for reference only. Please verify the model, size, and part numbers to confirm fitment for your specific vehicle before ordering. Allow for a 1-3mm difference due to manual measurement.



Image: Top-down view of the Artudatech Starter Motor, illustrating its compact design and integrated wiring harness.

4. SPECIFICATIONS

Condition:	Aftermarket 100% Brand New
Fitment Type:	Direct Replacement
Surface Finish:	Heavy Duty
Part:	UNIT
Unit Type:	Starter
Number of Teeth:	10
Gear OD:	7.3mm / 0.28 in
Mounting Ear 1 Hole:	6.8mm ID Unthreaded
Mounting Ear 2 Hole:	6.8mm ID Unthreaded
Material:	Aluminum
Item Weight:	0.6 Kilograms

Reference Part Number(s):

- 21163-Y001
- 31200-LEJ2-E10
- 31210-KEE1-9000
- 31210-KEE1-90A
- 31210-KEE1-90C
- 32105-LBD6-E00
- 31200-LDC8-E10



Image: Artudatech Starter Motor with key dimensions highlighted. The image shows the overall length of 110mm (4.33"), a width of 47.3mm (1.86"), gear OD of 7.3mm (0.28"), and a 10mm (0.39") shaft diameter.

5. INSTALLATION (SETUP)

Installation of a starter motor requires mechanical knowledge and appropriate tools. **Professional installation is highly recommended.** Installation instructions are not included with this product.

Before beginning any installation, ensure the vehicle's battery is disconnected to prevent electrical shorts or injury. Refer to your vehicle's service manual for specific removal and installation procedures for the starter motor.



Image: Front view of the Artudatech Starter Motor, showing the main body and electrical connections.

6. OPERATION

The starter motor is an electrical device responsible for rotating the engine to initiate the combustion process. When the ignition key is turned to the "start" position, electrical current flows from the battery to the starter motor. The motor then engages with the engine's flywheel, turning the crankshaft until the engine starts. Once the engine is running, the starter motor disengages automatically.



Image: Side view of the Artudatech Starter Motor, highlighting the mounting points and gear assembly.

7. MAINTENANCE

Starter motors are generally low-maintenance components. However, regular checks of the vehicle's electrical system can help prolong its life:

- **Battery Health:** Ensure your vehicle's battery is fully charged and in good condition. A weak battery can strain the starter motor.
- **Cable Connections:** Periodically inspect the battery cables and starter motor connections for corrosion or looseness. Clean and tighten as necessary.
- **Avoid Prolonged Cranking:** Do not crank the engine for more than 5-10 seconds at a time. Allow the starter to cool for a minute or two between attempts to prevent overheating.



Image: Close-up view of the Artudatech Starter Motor's electrical connections, showing the red and black wires and the terminal lug.

8. TROUBLESHOOTING COMMON ISSUES

If your vehicle is experiencing starting problems, consider the following common issues:

- **Engine Does Not Crank or Cranks Slowly:**
 - Check battery charge and terminals.
 - Inspect starter motor wiring for loose or corroded connections.
 - Listen for a clicking sound from the starter solenoid.
- **Starter Engages but Engine Does Not Start:**

- This may indicate an issue with the engine itself (fuel, spark, compression) rather than the starter motor.

- **Grinding Noise During Starting:**

- Could indicate a problem with the starter gear (bendix) or the engine's flywheel teeth.

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



Image: Close-up view of the gear (spline) end of the Artudatech Starter Motor, showing the 10-spline shaft.

9. PACKAGE CONTENTS

The package includes:

- 1x New Starter Motor

10. PRODUCT VIDEO OVERVIEW

Your browser does not support the video tag.

Video: An official product video from Artudatech showcasing the starter motor from various angles, demonstrating its physical appearance and components. This video provides a visual overview of the product.

11. SUPPORT

If you encounter any problems or have questions regarding the Artudatech Starter Motor, please contact Artudatech customer support. We are committed to assisting you.

