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## Artudatech M553-A475~PMS002AMZUS

# Artudatech Engine Starting Motor Instruction Manual

For Access AMX, Shade, and Triton AX 700 4X4 LOF Models

## 1. INTRODUCTION

Welcome to the Artudatech Engine Starting Motor instruction manual. This document provides essential information for the proper installation, operation, and maintenance of your new starter motor. Please read this manual thoroughly before attempting any installation or use to ensure safety and optimal performance.

## 2. PRODUCT OVERVIEW

The Artudatech Engine Starting Motor is designed for reliable engine ignition in compatible vehicles. It features a heavy-duty surface finish and a 9-tooth gear for efficient cranking. This unit serves as a direct replacement for original equipment parts.

- **Surface Finish:** Heavy Duty
- **Unit Type:** Starter
- **Number of Teeth:** 9 Tooth

### Replacement Part Numbers:

- 31200-E20-000
- ACC-31200-E20-000



Figure 2.1: Front-side view of the Artudatech Engine Starting Motor, showing the main body and mounting points.

### 3. COMPATIBILITY

This starter motor is compatible with a range of ATV/UTV models. It is crucial to verify your vehicle's specific requirements and part numbers against those listed below to ensure proper fitment. Always compare the provided part numbers and images with your faulty unit before purchase.

#### Compatible Models:

- Fit for Access MAX 800I, 600I, 650I, 750I
- Fit for Access MAX 650 EFI, 650 LT EFI, 750 EFI, 750 EFI FOREST
- Fit for Access AMX 750 4X4, 750 4x4 UL
- Fit for Access AMX 6.46 Basic (7.46 EFI 4X4)
- Fit for Access AMX 6.46 LV (lange Version) EFI 4X4 LUX (LED eyes)
- Fit for Access AMX 6.46 EFI 4X4 LUX (LED eyes)
- Fit for Access AMX 7.46 LV (lange Version) EFI 4X4 LUX
- Fit for Access AMX 8.57 LV (lange Version) EFI 4x4 LUX
- Fit for Access AMX 6.46 EFI 4X4 LUX (LED eyes) 2016
- Fit for Access AMX 6.46 LV (lange Version) EFI 4X4 LUX (LED eyes) > 2016
- Fit for Access AMX 6.46 Basic (7.46 EFI 4X4) 2016
- Fit for Access AMX 8.57 EFI 4x4 EPS, 8.57 Basic, 8.57 Basic Euro4
- Fit for Access AMX 8.57 LV Euro4 (lange Version) EFI 4x4 LUX

- Fit for Access Shade Sport 650 2016, 850, 850 LV EPS
- Fit for Triton AX 700 4X4 LOF
- Fit for GOES G 725i s, 650i HO



Figure 3.1: Angled view of the starter motor, highlighting the electrical terminal and mounting bracket.

## 4. SETUP AND INSTALLATION

Installation of an engine starting motor requires mechanical aptitude and adherence to safety protocols. If you are unsure about any step, it is recommended to seek professional assistance. Always consult your vehicle's specific service manual for detailed, model-specific instructions.

### Safety Precautions:

- Always disconnect the vehicle's battery (negative terminal first) before beginning any electrical work to prevent electrical shock or damage to the vehicle's systems.
- Ensure the vehicle is on a stable, level surface and properly secured to prevent accidental movement.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Allow the engine to cool completely before working on it.

### General Installation Steps:

1. **Locate Old Starter:** Identify the position of the existing starter motor on your vehicle.
2. **Disconnect Electrical:** Carefully disconnect all electrical connections from the old starter motor. Note the position and routing of each wire for correct reinstallation.
3. **Remove Mounting Bolts:** Remove the bolts or fasteners securing the old starter motor to the engine or transmission housing.
4. **Remove Old Unit:** Carefully extract the old starter motor from its mounting location.
5. **Position New Starter:** Place the new Artudatech starter motor into position, ensuring proper alignment with the engine's flywheel or flexplate.
6. **Secure New Unit:** Install and tighten the mounting bolts to the manufacturer's specified torque

settings.

7. **Reconnect Electrical:** Reconnect all electrical wires to the new starter motor. Ensure all connections are clean, tight, and free from corrosion.
8. **Reconnect Battery:** Reconnect the vehicle's battery (positive terminal first, then negative).
9. **Test Operation:** Attempt to start the engine to confirm proper function of the new starter motor.



Figure 4.1: End view of the starter motor, clearly showing the 9-tooth gear (bendix) that engages with the engine's flywheel.

## 5. OPERATING INSTRUCTIONS

The starter motor is an essential component of your vehicle's ignition system. When the ignition key is turned to the "start" position, the starter motor engages the engine's flywheel, rotating the crankshaft to initiate the combustion process.

- **Battery Condition:** Ensure your vehicle's battery is adequately charged for optimal starter motor performance. A weak battery can strain the starter motor and lead to starting issues.
- **Cranking Duration:** Avoid prolonged cranking. If the engine does not start after a few seconds (typically 5-10 seconds), release the key, wait briefly (30-60 seconds) to allow the starter motor to cool, and then attempt again. Continuous cranking can overheat and damage the starter motor.
- **Proper Gear Selection:** Always ensure the vehicle's transmission is in Park (P) or Neutral (N) before attempting to start the engine, as per your vehicle manufacturer's recommendations.

## 6. MAINTENANCE

The Artudatech Engine Starting Motor is designed for durability and typically requires minimal routine maintenance. However, periodic checks of related components can help ensure its longevity and reliable operation.

### Periodic Checks:

- **Electrical Connections:** Periodically inspect the electrical connections to the starter motor for signs of corrosion, looseness, or damage. Clean and tighten connections as necessary.

- **Battery Condition:** Ensure the battery terminals are clean and secure, and that the battery itself is in good condition and adequately charged. A strong electrical supply is crucial for proper starter operation.
- **Unusual Noises:** Listen for any unusual noises (grinding, clicking, whirring) during engine cranking. These could indicate wear, misalignment, or other issues that may require further investigation.

## 7. TROUBLESHOOTING

If you experience issues with your engine starting, consider the following common troubleshooting steps:

### Common Issues and Solutions:

- **Engine Does Not Crank or Cranks Slowly:**
  - **Cause:** Low battery charge, corroded/loose battery terminals, faulty battery, or poor starter motor connections.
  - **Solution:** Check battery charge level and condition. Clean and tighten battery terminals and starter motor connections. Ensure the transmission is in Park or Neutral.
- **Starter Motor Clicks but Does Not Engage:**
  - **Cause:** Often indicates a low battery charge, a faulty starter solenoid (integrated into the starter motor), or poor electrical contact.
  - **Solution:** Check battery voltage. Inspect all connections for proper contact and cleanliness.
- **Starter Motor Spins but Engine Does Not Crank:**
  - **Cause:** The starter motor's gear (bendix) is not engaging with the engine's flywheel. This could be due to a worn gear, a mechanical issue within the starter, or a damaged flywheel.
  - **Solution:** This typically requires inspection of the starter motor and flywheel. Professional diagnosis may be required.

If these troubleshooting steps do not resolve the issue, it is advisable to consult a qualified mechanic or automotive technician for further diagnosis and repair.

## 8. SPECIFICATIONS

Detailed technical specifications for the Artudatech Engine Starting Motor:

Attribute	Value
Manufacturer	Artudatech
Brand	Artudatech
Item Weight	3.85 pounds
Product Dimensions	9.45 x 4.33 x 5.51 inches
Manufacturer Part Number	M553-A475~PMS002AMZUS
ASIN	B0DPKFXVD1
Date First Available	December 4, 2024
Surface Finish	Heavy Duty
Unit Type	Starter
Number of Teeth	9 Tooth

## 9. WARRANTY AND SUPPORT

For specific warranty information, terms, and conditions related to your Artudatech Engine Starting Motor, please refer to the official Artudatech website or contact your original point of purchase. Technical support inquiries should also be directed through these channels.

You can find additional product information and contact details by visiting the Artudatech store on Amazon: [Artudatech Store](#)