

[Manuals.plus](#) /

› [World Power Systems](#) /

› World Power Systems MCR6658NAD Starter Instruction Manual

World Power Systems MCR6658NAD

World Power Systems MCR6658NAD Starter Instruction Manual

Model: MCR6658NAD

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your new World Power Systems MCR6658NAD starter. This unit is a 100% brand new replacement, engineered and tested to exceed OEM specifications, ensuring reliable performance for your vehicle.

Important: Automotive electrical system work can be complex and potentially dangerous. If you are not experienced with vehicle repair, it is highly recommended to seek assistance from a qualified professional mechanic for installation.

SAFETY INFORMATION

- Always disconnect the vehicle's battery (negative terminal first) before performing any work on the electrical system to prevent electrical shock or damage.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands if working underneath.
- Avoid contact with hot engine components.
- Keep all tools and metallic objects away from battery terminals to prevent short circuits.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.

VEHICLE COMPATIBILITY AND OEM CROSS-REFERENCE

This World Power Systems MCR6658NAD starter is designed as a direct replacement for the following OEM part numbers and is compatible with the vehicles listed below. Please verify your vehicle's original part number to ensure correct fitment.

Replaces OEM Part Numbers:

FORD 1L2U-11000-AA

FORD 1L2U-11000-AB

FORD 1L2Z-11002-AA

FORD 1L2Z-11002-AARM
FORD 6L2T-11000-BB
FORD 6L2Z-11002-BA
FORD 6L2Z-11V002-BARM
FORD ENGINEERING 1L2U-AA
FORD ENGINEERING 1L2U-AB

Compatible Vehicles:

FORD EXPLORER: 2002-2010 (V8 4.6L 281CID)
FORD EXPLORER SPORT TRAC: 2007-2010 (V8 4.6L 281CID)
LINCOLN AVIATOR: 2003-2005 (V8 4.6L 281CID)
MERCURY MOUNTAINEER: 2002-2010 (V8 4.6L 281CID)

PRODUCT SPECIFICATIONS

Manufacturer Series	PMGR Noseless
Design	PMGR
Voltage	12 Volts
Rotation	Counter-Clockwise (CCW)
Teeth	10
Wattage	1.2 KW
Item Weight	8.7 pounds
Model Number	MCR6658NAD

INSTALLATION GUIDE

Disclaimer: This is a general guide. Always consult your vehicle's specific service manual for precise instructions and safety precautions. Professional installation is recommended.

1. Preparation:
- Park the vehicle on a level surface and engage the parking brake.

◦ Disconnect the negative (-) battery cable first, then the positive (+) cable.

◦ Allow the engine to cool completely if it has been running.

◦ Locate the starter motor, typically mounted on the engine block near the transmission.
2. Removal of Old Starter:
- Carefully disconnect the electrical connections from the old starter (battery cable, solenoid wire). Note their positions for reinstallation.

◦ Remove the mounting bolts securing the starter to the engine/transmission.

◦ Carefully remove the old starter from its mounting position. It may be heavy.
3. Installation of New Starter:

- Compare the new World Power Systems starter with the old unit to ensure they are identical in fit and connections.
- Position the new starter into place and hand-tighten the mounting bolts.
- Connect the electrical wires to the new starter, ensuring correct polarity and secure connections. Refer to your notes or vehicle manual.
- Torque the mounting bolts and electrical connections to the manufacturer's specifications (consult vehicle service manual).

4. Final Steps:

- Reconnect the positive (+) battery cable, then the negative (-) battery cable.
- Start the vehicle to confirm proper operation of the new starter.
- Check for any unusual noises or issues.

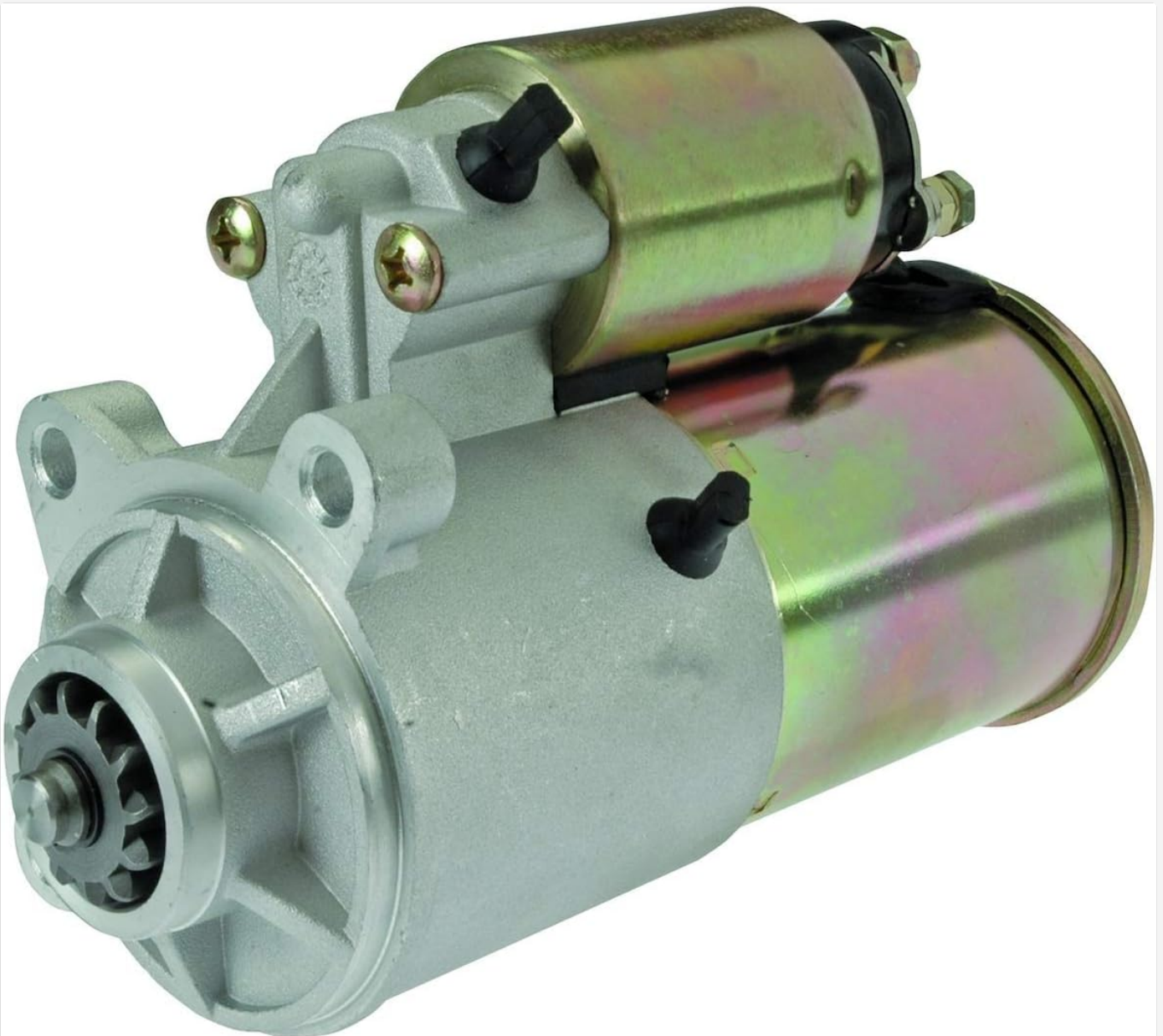


Image 1: Front view of the World Power Systems MCR6658NAD starter, showing the main body, solenoid, and gear assembly.



Image 2: Rear view of the World Power Systems MCR6658NAD starter, highlighting the electrical connection terminals and mounting points.

OPERATION

The starter motor is an integral part of your vehicle's engine starting system. When the ignition key is turned to the "START" position, electrical current flows from the battery to the starter solenoid. The solenoid engages the starter motor's pinion gear with the engine's flywheel and simultaneously sends power to the starter motor. The starter motor then rotates the flywheel, cranking the engine until it starts. Once the engine starts, the ignition key should be released, and the starter disengages automatically.

- Avoid prolonged cranking (more than 10-15 seconds) to prevent overheating the starter. Allow a brief cool-down period between attempts.
- Ensure your vehicle's battery is fully charged and in good condition for optimal starter performance.

MAINTENANCE

The World Power Systems MCR6658NAD starter is designed for long-term, maintenance-free operation. However, regular checks of your vehicle's electrical system can help ensure its longevity:

- **Battery Health:** Regularly check your vehicle's battery for proper charge, clean terminals, and secure connections. A weak battery can strain the starter.
- **Cable Connections:** Periodically inspect all battery and starter cable connections for corrosion, looseness, or damage. Clean and tighten as necessary.
- **Wiring Integrity:** Ensure all wiring leading to and from the starter is free from fraying, cuts, or heat damage.
- **Environmental Factors:** If operating in harsh conditions (e.g., excessive dust, moisture), consider more frequent inspections.

TROUBLESHOOTING COMMON ISSUES

If your vehicle experiences starting problems, consider the following common issues before assuming the starter is faulty:

Symptom	Possible Cause	Solution
Engine does not crank, no sound or a single click.	Dead or weak battery, loose/corroded battery terminals, faulty starter solenoid, faulty ignition switch, security system issue.	Check battery charge and terminals. Test battery. Inspect starter solenoid wiring. Consult vehicle manual for ignition switch or security system diagnostics.
Engine cranks slowly.	Weak battery, poor battery cable connections, high resistance in starter circuit, engine mechanical issue.	Test battery and charging system. Clean and tighten battery and starter cable connections. Check for proper engine oil viscosity.
Starter spins but engine does not crank.	Faulty starter drive (bendix) not engaging flywheel, damaged flywheel teeth.	Inspect starter drive and flywheel for damage. Replacement of starter or flywheel may be necessary.
Grinding noise during cranking.	Misaligned starter, worn starter drive gear, damaged flywheel teeth.	Inspect starter mounting and alignment. Check starter drive and flywheel for wear or damage.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified automotive technician.

WARRANTY INFORMATION

World Power Systems products are backed by a commitment to quality. This starter is a 100% brand new replacement, engineered and tested to exceed OEM specifications. Based on available information, this starter typically comes with a **2-year warranty** for non-agriculture and industrial applications. Please retain your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For further assistance, technical questions, or warranty inquiries, please contact your point of purchase or visit the World Power Systems website (if available). Always have your model number (MCR6658NAD) and purchase details ready when contacting support.

Seller: [BuyMCR](#)

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B000BU4K24>

More documents and user manuals: <https://manuals.plus/>