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URQS 428000-1691

URQS Starter Motor Instruction Manual

Model: 428000-1691 | Brand: URQS

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of the URQS Starter Motor, model 428000-1691. This starter is designed as a direct replacement part for various New Holland equipment models, including U80B, LB75B, DC95, D95B, D75, and B95B. It is equivalent to New Holland part number 86992395 and Denso part number 428000-1691. This component is essential for initiating the engine's combustion process by rotating the flywheel.



Figure 1: Angled view of the URQS Starter Motor, highlighting its robust construction and the pinion gear.

2. SAFETY INFORMATION

Always adhere to safety precautions when working with automotive electrical components. Failure to do so may result in injury or damage to equipment.

- **Disconnect Battery:** Always disconnect the vehicle's negative (-) battery terminal before beginning any installation or maintenance work to prevent electrical shock or short circuits.
- **Wear PPE:** Use appropriate personal protective equipment, including safety glasses and work gloves.
- **Secure Vehicle:** Ensure the vehicle is stable and properly supported on jack stands if working underneath it. Engage the parking brake.
- **Proper Tools:** Use only the correct tools for the job.
- **Professional Assistance:** If you are unsure about any step of the installation or troubleshooting process, consult a qualified mechanic.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged:

- One (1) URQS Starter Motor (Model 428000-1691)
- This Instruction Manual

4. SETUP AND INSTALLATION

This section outlines the general steps for replacing an existing starter motor. Specific vehicle procedures may vary.

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and turn off the engine. Disconnect the negative (-) battery cable. Gather necessary tools, including wrenches, sockets, and a battery terminal cleaner.
2. **Locate Old Starter:** Identify the location of the existing starter motor on your New Holland equipment. It is typically mounted on the engine block near the transmission.
3. **Disconnect Wiring:** Carefully disconnect all electrical wiring from the old starter, including the main battery cable and the solenoid activation wire. Note the position of each wire for correct reinstallation.



Figure 2: Rear view of the starter motor, illustrating the electrical connection points for the battery cable and solenoid wire.

4. **Remove Old Starter:** Unbolt the old starter motor from the engine block. Be prepared for its weight.
5. **Install New Starter:** Position the new URQS starter motor in place and secure it with the mounting bolts. Ensure it is seated correctly and tightened to the manufacturer's specifications.

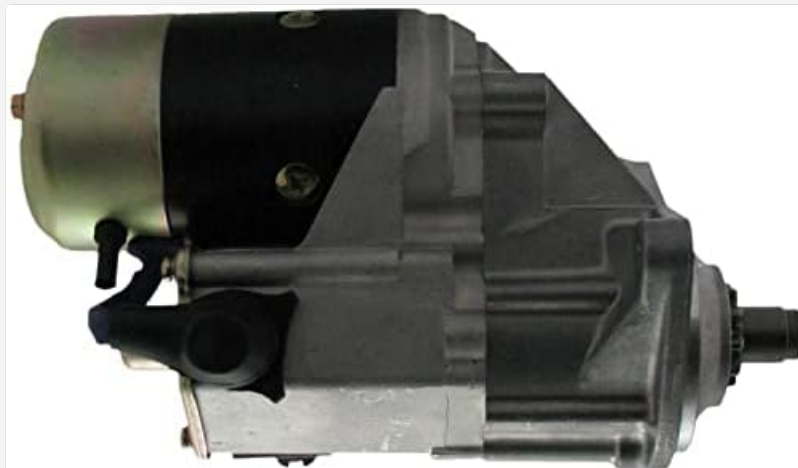


Figure 3: Side profile of the starter motor, showing its overall dimensions and mounting points.

6. **Reconnect Wiring:** Reconnect all electrical wiring to the new starter, ensuring that the main battery cable and solenoid wire are attached to their correct terminals. Ensure connections are clean and tight.



Figure 4: Front view of the starter motor, detailing the pinion gear which engages with the engine's flywheel.

7. **Reconnect Battery:** Reconnect the negative (-) battery cable to the battery terminal.
8. **Test:** Attempt to start the engine to verify proper operation of the new starter. Listen for any unusual noises.

5. OPERATING INSTRUCTIONS

The starter motor is an electrical component designed to crank the engine. When the ignition key is turned to the 'start' position, the starter motor engages with the engine's flywheel, rotating it to initiate the combustion cycle.

- Ensure the vehicle's transmission is in 'Park' or 'Neutral' before attempting to start.
- Turn the ignition key to the 'start' position and hold it until the engine begins to run. Release the key immediately once the engine starts.
- Avoid prolonged cranking (more than 10-15 seconds) to prevent overheating the starter motor. If the engine does not start, wait at least 30 seconds before attempting to crank again.

6. MAINTENANCE

Starter motors generally require minimal maintenance. Regular inspection can help ensure longevity and reliable operation.

- **Inspect Connections:** Periodically check all electrical connections to the starter motor for corrosion, looseness, or damage. Clean terminals as needed.
- **Check Mounting:** Ensure the starter's mounting bolts remain tight and secure.
- **Keep Clean:** Keep the starter free from excessive dirt, oil, grease, and moisture, which can degrade performance and lifespan.

7. TROUBLESHOOTING

If you experience issues with your starter motor, consider the following common problems and solutions:

Symptom	Possible Cause	Solution
Engine does not crank or cranks slowly	Low battery charge, corroded battery terminals, loose battery cables, faulty starter solenoid, faulty starter motor.	Charge or replace battery. Clean and tighten battery terminals and cables. Inspect and test solenoid. Test starter motor.
Clicking sound but no crank	Low battery, corroded battery terminals, faulty starter solenoid.	Charge battery. Clean battery terminals. Test or replace solenoid.
Grinding noise during cranking	Improper engagement of pinion gear with flywheel, worn flywheel teeth, worn starter pinion gear.	Verify correct starter installation. Inspect flywheel and starter pinion for wear. Replace if necessary.
Starter continues to run after engine starts	Faulty solenoid, faulty ignition switch.	Immediately turn off the engine. Test and replace solenoid or ignition switch.

If troubleshooting steps do not resolve the issue, it is recommended to seek professional assistance.

8. SPECIFICATIONS

- **Model Number:** 428000-1691
- **Brand:** URQS
- **Manufacturer:** EPartsGlobal
- **Material:** Metal
- **Wattage:** 1.4 KW
- **Phase Type:** Three Phase
- **Item Weight:** 18 pounds
- **Package Dimensions:** 11 x 7 x 7 inches

9. WARRANTY AND SUPPORT

Warranty information for this specific product is not provided in the available documentation. For details regarding warranty coverage, returns, or technical support, please contact the seller, EPartsGlobal, directly through your purchase platform or their official contact channels.