

URQS 16608-2

URQS Replacement Starter Instruction Manual

MODEL: 16608-2

Brand: URQS

INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of your new URQS Replacement Starter, Model 16608-2. Designed as a direct replacement for Lucas Style (16608) starters, this unit is compatible with various Ford, Case, and New Holland tractor models. Please read this manual thoroughly before attempting any installation or operation to ensure safety and optimal performance.

Safety First: Always disconnect the battery before working on the electrical system of any vehicle or machinery. Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves. Ensure the vehicle is stable and secured before beginning work.

PRODUCT OVERVIEW

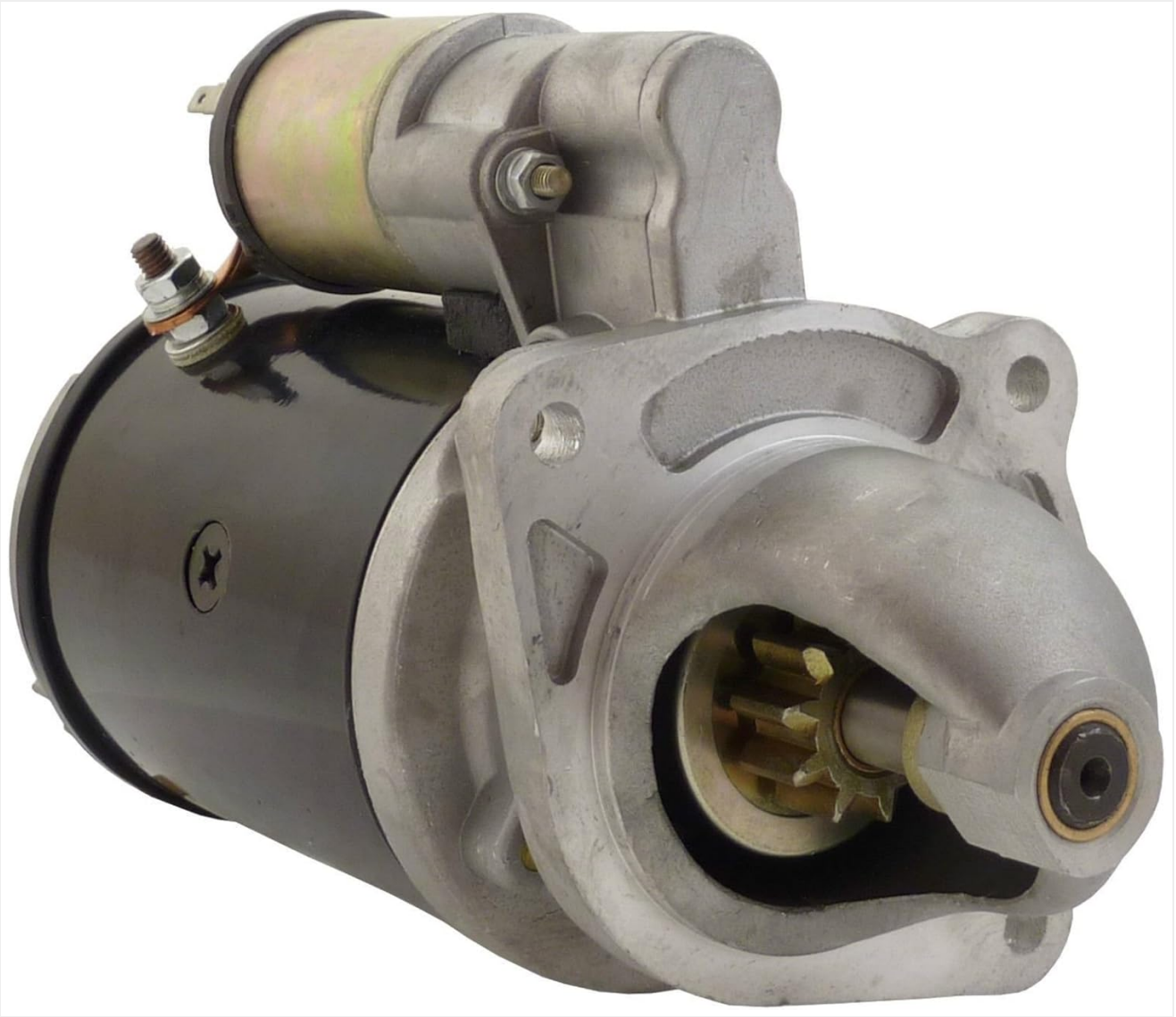


Figure 1: Front view of the URQS Replacement Starter, showing the main body, solenoid, and drive gear.

The URQS Replacement Starter is a robust electrical component designed to crank the engine for starting. It consists of a powerful electric motor, a solenoid that engages the drive gear (bendix) with the engine's flywheel, and a durable housing. This starter is engineered to meet or exceed the specifications of the original Lucas Style (16608) unit.

COMPATIBILITY

This starter is a direct replacement for Lucas Style (16608) starters and is compatible with the following tractor models:

- Ford 5610
- Ford 6610
- Ford 3000
- Ford 4000
- Ford 4110
- Various Case models
- Various New Holland models

Note: Always verify the part number and specifications against your existing starter and vehicle requirements before installation.

SETUP AND INSTALLATION

Pre-Installation Checks:

1. Ensure the vehicle's battery is disconnected at the negative terminal.
2. Inspect the new starter for any visible damage from shipping.
3. Compare the new starter with the old unit to confirm it is the correct replacement part (mounting points, electrical terminals, gear type).
4. Clean the mounting surface on the engine block to ensure good electrical contact.

Installation Steps:

1. Remove Old Starter:

- Locate the existing starter on your tractor.
- Carefully disconnect all electrical connections (battery cable, solenoid wire). Note their positions for reinstallation.
- Remove the mounting bolts securing the old starter to the engine block or transmission housing.
- Carefully remove the old starter.

2. Install New Starter:

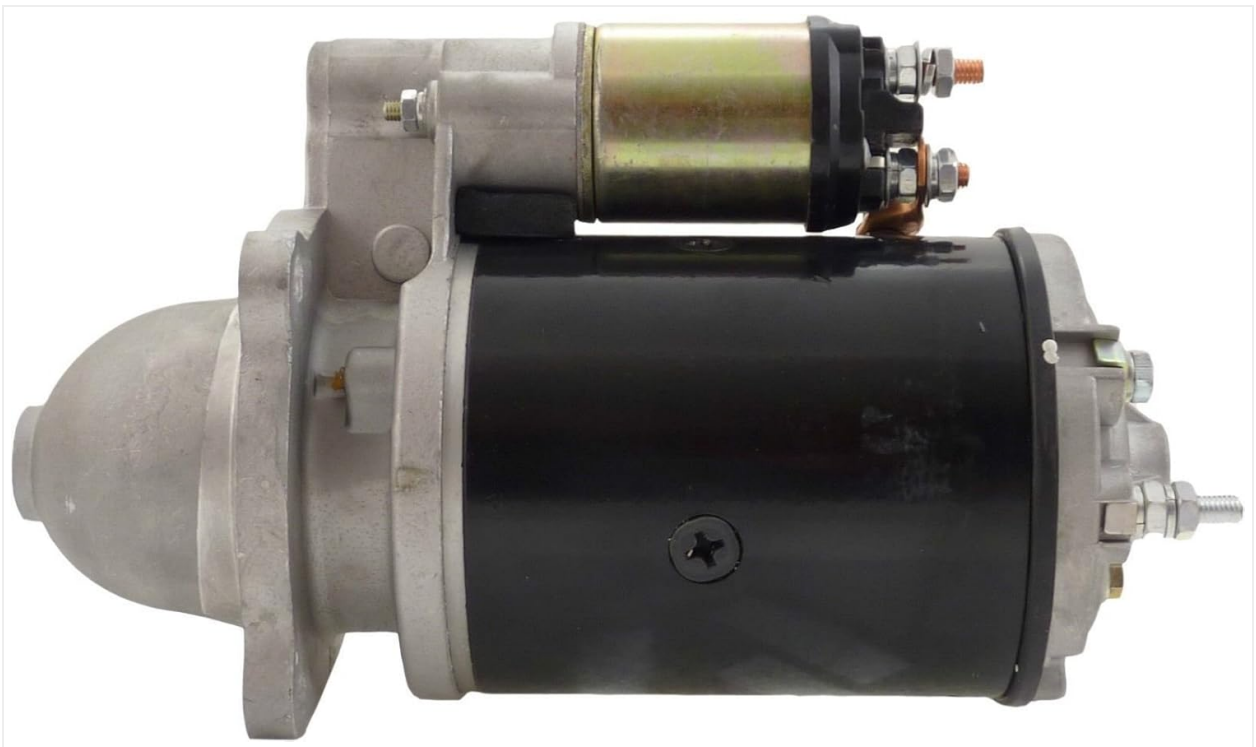


Figure 2: Side view of the starter, showing mounting points and electrical terminals.

- Position the new URQS starter into the mounting location.
- Align the mounting holes and insert the mounting bolts. Tighten them securely according to manufacturer specifications (refer to your tractor's service manual for torque values).
- **Connect Electrical Wires:**



Figure 3: Rear view of the starter, highlighting the electrical connection points.

- Connect the main battery cable (thickest cable) to the large terminal on the solenoid. Ensure a clean, tight connection.
- Connect the ignition switch wire (smaller wire) to the appropriate small terminal on the solenoid.
- Ensure all connections are clean, tight, and free from corrosion.

3. Final Checks:

- Double-check all electrical connections and mounting bolts for tightness.

- Ensure no tools or debris are left near moving parts.
- Reconnect the negative battery terminal.

OPERATING INSTRUCTIONS

Once the starter is installed, the engine starting procedure remains the same as before. Ensure the tractor is in neutral or park, and engage the clutch if applicable. Turn the ignition key to the "START" position. The starter will engage the flywheel and crank the engine until it starts. Release the key once the engine fires.

- **Avoid prolonged cranking:** If the engine does not start within 10-15 seconds, release the key and allow the starter to cool for a minute or two before attempting again. Excessive cranking can overheat the starter.
- **Ensure battery is fully charged:** A weak battery can lead to slow cranking or failure to start, putting undue strain on the starter.

MAINTENANCE

The URQS Replacement Starter is designed for durability and requires minimal maintenance. However, periodic checks can extend its lifespan and ensure reliable operation.

- **Electrical Connections:** Periodically inspect all electrical connections to the starter and battery for corrosion and tightness. Clean any corrosion with a wire brush and battery terminal cleaner.
- **Mounting Bolts:** Check the starter's mounting bolts for tightness, especially after the first few hours of operation.
- **General Cleanliness:** Keep the starter free from excessive dirt, oil, and debris. A clean exterior helps with heat dissipation.
- **Battery Health:** Ensure your tractor's battery is always in good condition and fully charged. A healthy battery is crucial for optimal starter performance.

TROUBLESHOOTING

If you experience issues with your starter, consult the following table before seeking professional assistance:

Symptom	Possible Cause	Solution
Starter does not engage or click	Dead or weak battery; Loose or corroded battery cables/connections; Faulty ignition switch; Faulty solenoid.	Charge/replace battery; Clean and tighten all connections; Test ignition switch; Test/replace solenoid.
Starter cranks slowly	Weak battery; Corroded battery cables; Engine oil too thick (cold weather); Internal starter issue.	Charge/replace battery; Clean battery cables; Use appropriate oil for temperature; Consult a mechanic.
Starter spins but engine does not crank	Faulty bendix (drive gear) not engaging flywheel; Damaged flywheel teeth.	Replace starter; Inspect flywheel for damage.
Starter makes grinding noise	Misalignment; Damaged bendix or flywheel teeth.	Check mounting; Inspect bendix and flywheel; Replace starter if necessary.

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

SPECIFICATIONS

Feature	Value
Model Number	16608-2
Replaces	Lucas Style (16608)
Voltage	12 Volts
Amperage	10 Amps
Wattage	1.4 KW
Item Weight	29 pounds
Package Dimensions	15 x 10 x 10 inches
UPC	689231872053
Manufacturer	EPartsGlobal

WARRANTY INFORMATION

URQS products are manufactured to high-quality standards. This product is covered by a standard manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary. Please retain your proof of purchase for warranty claims. For detailed warranty information, refer to the documentation provided with your purchase or contact your retailer.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the retailer from whom you purchased this product. They will be able to provide the most accurate and timely support. You may also refer to the manufacturer's website for additional resources or contact information.