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› URQS Starter for Force Outboard Motors (70-150 HP, 1983-1999), Model 480995-5732 Instruction Manual

URQS 480995-5732

URQS Starter for Force Outboard Motors (70-150 HP, 1983-1999)

Model: 480995-5732 | Brand: URQS

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your URQS Starter for Force Outboard Motors. Please read this manual thoroughly before attempting any installation or service to ensure safe and correct usage. Proper installation and maintenance are crucial for the longevity and performance of the starter.

2. SAFETY INFORMATION

Always prioritize safety when working with marine electrical systems. Failure to follow these safety guidelines may result in serious injury or damage to equipment.

- **Disconnect Battery:** Before beginning any work, always disconnect the boat's battery to prevent accidental starting or electrical shock. Disconnect the negative (-) terminal first, then the positive (+) terminal.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses and gloves.
- **Ventilation:** Ensure adequate ventilation when working in enclosed spaces, especially when dealing with battery fumes.
- **Professional Installation:** If you are unsure about any step, it is recommended to seek assistance from a qualified marine technician.
- **Secure Connections:** Ensure all electrical connections are clean, tight, and free from corrosion. Loose connections can cause overheating and damage.

3. PRODUCT OVERVIEW

The URQS Starter (Model 480995-5732) is designed as a replacement starter for various Force Outboard Motors manufactured between 1983 and 1999, specifically models ranging from 70 HP to 150 HP. This unit is constructed with copper components for efficient electrical conductivity and durability.

Key Features:

- Voltage: 12 Volts
- Wattage: 1.6 KW
- Material: Copper
- Weight: Approximately 6 pounds



Figure 3.1: Side view of the URQS Starter Motor, illustrating the main cylindrical body and the bendix gear assembly.

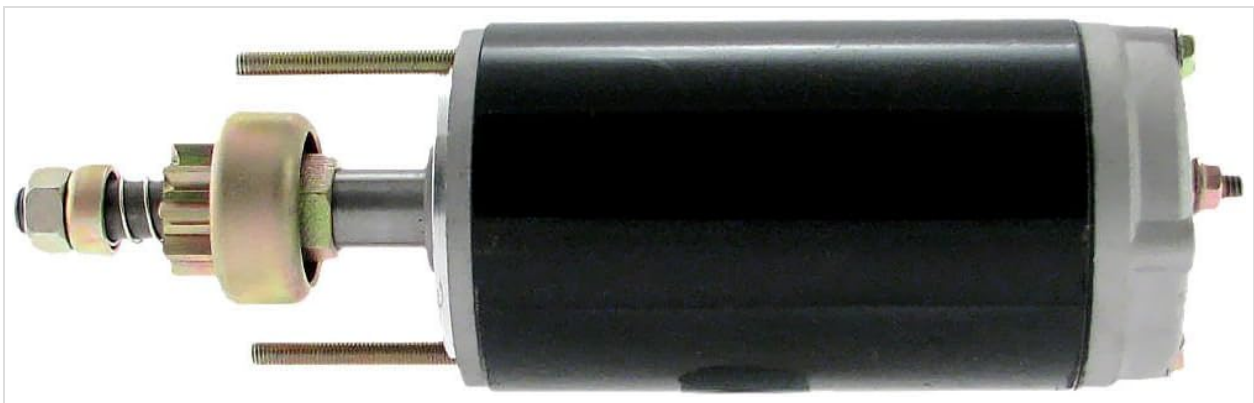


Figure 3.2: Top-down view of the URQS Starter Motor, highlighting the mounting studs and the electrical connection points.

4. SETUP AND INSTALLATION

This section outlines the general procedure for replacing an outboard starter. Specific steps may vary slightly depending on your particular Force Outboard model. Refer to your engine's service manual for detailed instructions.

4.1 Tools Required

- Wrench set (metric and/or standard)
- Socket set
- Battery terminal cleaner
- Wire brush
- Dielectric grease (optional)

4.2 Installation Steps

1. **Prepare the Engine:** Ensure the engine is off and the boat's battery is disconnected (negative terminal first).

2. **Locate the Starter:** Identify the existing starter motor on your outboard engine. It is typically mounted near the flywheel.
3. **Disconnect Wiring:** Carefully disconnect all electrical wires from the old starter. Note the position of each wire (e.g., battery cable, solenoid wire) for correct reinstallation. Take photos if necessary.
4. **Remove Old Starter:** Unbolt the old starter from its mounting points on the engine block. Support the starter as you remove the last bolt to prevent it from falling.
5. **Inspect Mounting Area:** Clean the mounting surface on the engine block to ensure a flush fit for the new starter.
6. **Install New Starter:** Position the new URQS starter in place and secure it with the mounting bolts. Tighten bolts to the manufacturer's specified torque (refer to your engine's service manual).
7. **Connect Wiring:** Reconnect the electrical wires to the new starter, ensuring they are attached to the correct terminals. Clean all wire terminals with a wire brush before connecting. Apply a thin layer of dielectric grease to terminals for corrosion protection.
8. **Reconnect Battery:** Reconnect the boat's battery (positive terminal first, then negative terminal).
9. **Test Operation:** Attempt to start the engine to verify proper starter function. Listen for smooth engagement and cranking.

5. OPERATING INSTRUCTIONS

The URQS Starter operates in conjunction with your outboard engine's ignition system. Once properly installed, its function is largely automatic.

- **Starting the Engine:** Turn the ignition key to the 'START' position. The starter motor will engage the engine's flywheel, causing the engine to crank.
- **Release Key:** Once the engine starts, immediately release the ignition key to the 'RUN' position. Prolonged engagement of the starter after the engine has started can cause damage to the starter motor and flywheel.
- **Battery Condition:** Ensure your boat's battery is fully charged and in good condition. A weak battery can lead to slow cranking or failure of the starter to engage.

6. MAINTENANCE

Regular inspection and basic maintenance can extend the life of your URQS Starter.

- **Visual Inspection:** Periodically inspect the starter for any signs of physical damage, corrosion, or loose components.
- **Electrical Connections:** Check all electrical connections to the starter and battery for tightness and cleanliness. Corrosion on terminals can impede current flow and affect performance. Clean any corroded terminals with a wire brush.
- **Battery Health:** Ensure your boat's battery is regularly tested and maintained. A healthy battery is essential for optimal starter performance.
- **Environmental Protection:** While the starter is designed for marine environments, minimizing exposure to excessive moisture and salt spray can help prevent premature corrosion.

7. TROUBLESHOOTING

If you experience issues with your starter, consult the following troubleshooting guide. For complex problems,

professional assistance is recommended.

Symptom	Possible Cause	Solution
Starter does not engage or click	Dead or weak battery; Loose or corroded battery cables/connections; Faulty ignition switch; Faulty starter solenoid; Open circuit in wiring.	Check battery charge and terminals; Clean and tighten all connections; Test ignition switch and solenoid; Inspect wiring for damage.
Starter cranks slowly	Weak battery; Corroded battery cables/connections; Excessive engine drag; Undersized battery cables.	Charge or replace battery; Clean and tighten connections; Check engine for mechanical issues; Ensure correct cable gauge.
Starter spins but engine does not crank	Faulty bendix drive (starter drive); Damaged flywheel teeth.	Inspect bendix gear for damage; Inspect flywheel teeth for wear. Starter replacement may be necessary.
Starter makes grinding noise	Misalignment of starter; Damaged flywheel teeth; Damaged bendix gear.	Check starter mounting; Inspect flywheel and bendix for damage.

8. SPECIFICATIONS

Specification	Detail
Brand	URQS
Model Number	480995-5732
Manufacturer Part Number	5732-3
UPC	600172116990
Voltage	12 Volts
Wattage	1.6 KW
Material	Copper
Item Weight	6 pounds
Package Dimensions	8 x 5 x 5 inches
Compatible HP Range	70, 75, 80, 85, 90, 120, 125, 150 HP
Compatible Year Range	1983-1999

9. WARRANTY AND SUPPORT

For warranty information and customer support regarding your URQS Starter, please contact the seller directly. The seller, EPartsGlobal, typically offers a return/replacement policy. Refer to your purchase documentation or the seller's terms for specific details on warranty coverage and duration.

When contacting support, please have your product model number (480995-5732) and purchase date readily available.