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Owigift E120

Owigift Starter Motor Replacement User Manual

For John Deere E120, E130, E140, E150, E160, E170 Riding Lawn Mower Tractors with Briggs & Stratton Engine

1. Product Overview

This manual provides essential information for the installation, maintenance, and troubleshooting of your Owigift Starter Motor Replacement. Designed for specific John Deere riding lawn mower tractor models equipped with Briggs & Stratton engines, this starter motor is a critical component for engine ignition.

Figure 1.1: Front view of the Owigift Starter Motor, showing the main body and gear assembly.

Figure 1.2: Side view of the Owigift Starter Motor, highlighting the integrated mounting bracket for secure installation.

2. Safety Information

Always prioritize safety when working with machinery. Failure to follow these instructions may result in personal injury or damage to equipment.

- **Disconnect Battery:** Before beginning any work, always disconnect the negative battery cable to prevent accidental starting or electrical shock.
- **Wear Protective Gear:** Use appropriate personal protective equipment (PPE), including safety glasses and gloves.
- **Ensure Stability:** Make sure the lawn mower is on a flat, stable surface and the parking brake is engaged.
- **Allow Cooling:** If the engine has been running, allow it to cool completely before working on it.
- **Consult Vehicle Manual:** Refer to your John Deere lawn mower's original owner's manual for specific safety warnings and procedures related to your model.

3. Installation Guide

This section outlines the general steps for replacing the starter motor. Specific procedures may vary slightly depending on your exact John Deere model. Always refer to your mower's service manual for detailed instructions.

3.1. Tools Required

- Socket Wrench Set (metric and/or standard, depending on fasteners)
- Battery Terminal Wrench
- Wire Brush (for cleaning terminals)
- Dielectric Grease (optional, for electrical connections)

3.2. Removal of Old Starter Motor

1. **Prepare the Mower:** Ensure the mower is off, the parking brake is engaged, and the key is removed. Disconnect the negative (-) battery cable first, then the positive (+) cable.
2. **Locate Starter Motor:** Identify the starter motor, typically mounted on the engine block.
3. **Disconnect Wiring:** Carefully disconnect all electrical connections from the old starter motor. Note their positions for reinstallation.
4. **Remove Mounting Bolts:** Loosen and remove the bolts securing the starter motor to the engine. Support the motor as you remove the last bolt to prevent it from falling.
5. **Remove Old Motor:** Carefully extract the old starter motor from its mounting location.

3.3. Installation of New Starter Motor

1. **Inspect Mounting Surface:** Clean any debris or corrosion from the engine's starter motor mounting surface.
2. **Position New Motor:** Carefully align the new Owigift starter motor with the mounting holes on the engine block.
3. **Secure Mounting Bolts:** Insert and hand-tighten the mounting bolts. Once all bolts are in place, tighten them securely according to your mower's torque specifications (if available). Do not overtighten.
4. **Reconnect Wiring:** Reconnect all electrical connections to the new starter motor. Ensure connections are clean and tight. Apply dielectric grease if desired.
5. **Reconnect Battery:** Reconnect the positive (+) battery cable first, then the negative (-) battery cable.

4. Operation and Testing

After installation, perform a test to ensure the new starter motor is functioning correctly.

1. **Initial Check:** Double-check all connections to ensure they are secure.
2. **Start Engine:** Attempt to start the lawn mower as you normally would. The engine should crank smoothly and start.
3. **Listen for Abnormal Noises:** Pay attention to any unusual grinding, whining, or clicking sounds during cranking.
4. **Multiple Starts:** Perform a few start cycles to confirm consistent operation.

If the engine does not crank or exhibits abnormal behavior, refer to the Troubleshooting section.

5. Maintenance

While starter motors are generally low-maintenance components, periodic checks can help ensure longevity and reliable performance.

- **Inspect Connections:** Periodically check the electrical connections to the starter motor for corrosion or looseness. Clean terminals with a wire brush if necessary.
- **Battery Health:** Ensure your mower's battery is in good condition and fully charged. A weak battery can put undue strain on the starter motor.
- **Cleanliness:** Keep the area around the starter motor free of excessive dirt, grass clippings, and debris.

6. Troubleshooting

If you encounter issues after installing the new starter motor, consult the following table for common problems and potential solutions.

Problem	Possible Cause	Solution
Starter motor clicks but engine does not crank.	Weak or dead battery; Loose or corroded battery terminals; Faulty solenoid (less likely with new starter).	Charge or replace battery; Clean and tighten battery terminals; Check all electrical connections to the starter.
Starter motor spins but engine does not engage/crank.	Bendix gear not extending or engaging flywheel; Damaged flywheel teeth.	Inspect starter gear and flywheel for damage; Ensure proper installation and alignment.
No response from starter motor when key is turned.	No power to starter; Blown fuse; Faulty ignition switch; Safety interlock switch engaged.	Check battery connections and charge; Inspect fuses; Verify ignition switch function; Ensure all safety switches (e.g., seat, PTO, brake) are engaged.
Grinding noise during cranking.	Improper starter alignment; Damaged starter gear or flywheel teeth.	Recheck starter mounting; Inspect gear and flywheel for wear or damage.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified service technician or refer to your mower's detailed service manual.

7. Specifications

Key technical specifications for the Owigift Starter Motor Replacement.

Attribute	Value

Attribute	Value
Brand	Owigift
Model Number	E120
Voltage	12 Volts
Wattage	3 KW
Material	Alloy Steel
UPC	017015814317
Compatible John Deere Models	E120, E130, E140, E150, E160, E170 (with Briggs & Stratton Engine)

8. Warranty and Support

Owigift products are manufactured to high standards. For information regarding warranty coverage or technical support, please refer to the product packaging or contact the seller directly through the platform where the purchase was made. Keep your proof of purchase for warranty claims.

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