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Complete Tractor 1700-0147

Complete Tractor 1700-0147 Starter Replacement User Manual

Model: 1700-0147

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Complete Tractor 1700-0147 Starter Replacement. Please read this manual thoroughly before installation and use to ensure safe and efficient performance. This starter is designed as a direct replacement for various agricultural and heavy equipment applications, ensuring reliable engine starting.

Safety Information

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Disconnect the battery's negative terminal before performing any work on the electrical system to prevent accidental starting or electrical shock.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
- Ensure the vehicle or equipment is stable and properly supported before working underneath it.
- Verify that the replacement starter matches the specifications of the original part before installation.
- Keep all tools and loose clothing away from moving parts.
- If you are unsure about any procedure, consult a qualified technician.

Product Overview

The Complete Tractor 1700-0147 Starter is a robust electrical component designed to crank the engine for ignition. It is a 100% new unit, engineered to meet or exceed OEM quality standards for various tractor and farm equipment models.



Figure 1: Front view of the starter, showing the solenoid and drive gear (bendix).



Figure 2: Side view of the starter, highlighting the main body and electrical connections.



Figure 3: Rear view of the starter, showing the mounting points and terminal layout.

Setup and Installation

Follow these steps for proper installation of the starter replacement:

1. **Preparation:** Ensure the vehicle's ignition is off and the battery's negative terminal is disconnected. Locate the existing starter motor.
2. **Removal of Old Starter:** Disconnect all electrical connections from the old starter. Carefully unbolt the old starter from its mounting points on the engine or transmission housing. Note the position of any shims or spacers.
3. **Inspection:** Inspect the mounting surface and flywheel ring gear for any damage or wear. Clean any debris from the mounting area.
4. **Installation of New Starter:** Position the new Complete Tractor 1700-0147 Starter into place, ensuring proper alignment with the mounting holes. Reinstall any shims or spacers that were removed.
5. **Secure Mounting:** Hand-tighten the mounting bolts, then torque them to the manufacturer's specifications for your specific equipment model. Do not overtighten.
6. **Electrical Connections:** Reconnect all electrical wires to the new starter. Ensure all connections are clean, tight, and free from corrosion. Typically, there will be a large battery cable and one or more smaller solenoid wires.
7. **Final Check:** Double-check all connections and mounting bolts. Reconnect the battery's negative terminal.

Operating Instructions

Once the starter is installed, operate your equipment as follows:

- Ensure the transmission is in neutral or park, and the parking brake is engaged.
- Turn the ignition key to the "START" position. The starter motor will engage the engine's flywheel and begin to crank the engine.
- Release the key immediately once the engine starts. Do not hold the key in the "START" position for more than 10-15 seconds to prevent overheating the starter.
- If the engine does not start after a few attempts, allow the starter to cool for at least 30 seconds between attempts to prevent damage.

Maintenance

The Complete Tractor 1700-0147 Starter is designed for durability and requires minimal maintenance. However, periodic checks can extend its lifespan:

- **Electrical Connections:** Periodically inspect all electrical connections to the starter for tightness and corrosion. Clean any corroded terminals with a wire brush and apply dielectric grease.
- **Battery Condition:** Ensure your vehicle's battery is in good condition and fully charged. A weak battery can put excessive strain on the starter.
- **Mounting Bolts:** Check the starter's mounting bolts for tightness periodically, especially after the first few hours of operation.
- **Environmental Protection:** Keep the starter free from excessive dirt, moisture, and oil buildup.

Troubleshooting

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

Symptom	Possible Cause	Solution
Starter clicks but engine does not crank.	Weak battery, loose or corroded battery cables, faulty solenoid.	Charge or replace battery. Clean and tighten battery and starter connections. Inspect solenoid for proper function.
Starter cranks slowly.	Low battery charge, high resistance in circuit, worn starter motor.	Check battery charge and condition. Inspect cables for corrosion or damage. Ensure proper grounding.
Starter spins but engine does not crank.	Faulty bendix (drive gear) or damaged flywheel ring gear.	Inspect the starter's bendix for proper engagement. Check the engine's flywheel ring gear for missing or damaged teeth.
No response from starter when key is turned.	Dead battery, faulty ignition switch, open circuit in starter solenoid wire, faulty starter motor.	Check battery voltage. Test ignition switch. Verify continuity of solenoid wire. Test starter motor directly (with caution).

If these steps do not resolve the issue, professional diagnosis may be required.

Specifications

Key specifications for the Complete Tractor 1700-0147 Starter Replacement:

- **Part Type:** Starter
- **Condition:** 100% New
- **OEM Replacement:** Replaces Case/International Harvester: 1530359C1
- **Fits Models:** Case/International Harvester 2120, 2130; Lamborghini 574-60, 660, 664-60, Agile 770, C352, C503, C554, C603, C664, Crono 554-50, Crono 564-60, Crono 574-70, Crono 65, Crono 75, Grimper 555, Grimper 560, R2.59, R2.60, R2.66, R2.70, R2.80, R235, R3.75, R550, R574-60, Rekord 65, Rekord 75, RV.80, RV.90.3, Sprint 654-55.
- **Manufacturer:** Complete Tractor
- **Manufacturer Reference:** C1700-0147T

Warranty and Support

The Complete Tractor 1700-0147 Starter Replacement comes with a **1-year warranty**. This warranty covers the product throughout planting and harvesting seasons, ensuring peace of mind regarding its performance and quality.
For technical support, warranty claims, or further assistance, please contact Complete Tractor customer service through their official website or authorized distributors. When contacting support, please have your product model number (1700-0147) and purchase information readily available.

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