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> Xtreme X0003 PTO Blade Clutch Instruction Manual

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Model: X0003 | Brand: Xtreme

PRODUCT OVERVIEW

The Xtreme X0003 PTO Blade Clutch is a high-quality replacement component designed for specific Toro lawn tractors and riding mowers. This clutch is engineered to deliver reliable power take-off for your mower's blades, ensuring efficient and consistent cutting performance. It features advanced technologies for durability and improved operation.



Figure 1: Front view of the Xtreme X0003 PTO Blade Clutch, showing the pulley and electrical connector.

KEY FEATURES

- **Cool Coil Technology:** Designed to dissipate heat efficiently, extending the life of the clutch.
- **High Temperature Bearing Upgrade:** Equipped with bearings capable of withstanding elevated operating temperatures for enhanced durability.
- **Replaceable Pulley Bearing:** Allows for easier maintenance and extended service life.
- **Super Smooth "Xtreme Precision" Machined Pulley:** Ensures smooth belt engagement and reduced wear.
- **Integrated Water Tight Wire Harness:** Provides protection against moisture and environmental elements, ensuring reliable electrical connection.
- **High Torque Transmission:** Engineered to deliver high torque, reducing over-heating and premature failure, especially for heavy-duty lawn care usage.
- **Premium Grade Stainless Steel Rivets:** Withstand rigorous conditions better than aluminum or copper rivets.

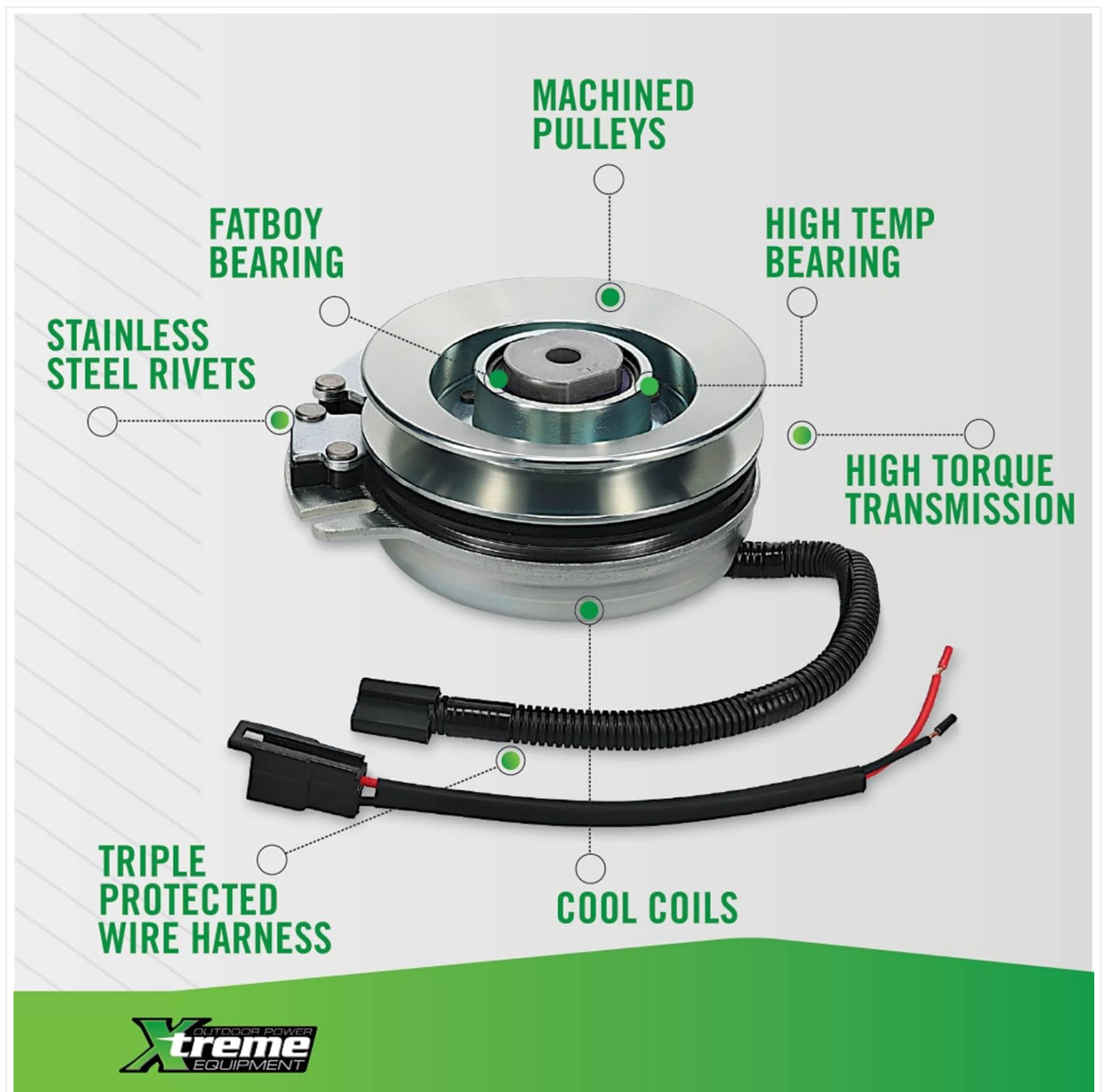


Figure 2: Diagram illustrating key features of the Xtreme PTO Clutch, including machined pulleys, high temp bearing, high torque transmission, cool coils, triple protected wire harness, fatboy bearing, and stainless steel rivets.

COMPATIBILITY

This PTO blade clutch is compatible with/replacement for the following Toro models:

- Toro DH-150 Lawn Tractor
- Toro DH-170 Lawn Tractor
- Toro DH-190 Lawn Tractor
- Toro RTZ480H Riding Mower (Serial no. 280000001-290999999)

Please verify your equipment's model and serial number to ensure proper fitment before installation.

INSTALLATION (SETUP)

Installation of a PTO blade clutch requires mechanical aptitude and appropriate tools. It is recommended that installation be performed by a qualified technician. Always refer to your equipment's specific service manual for detailed, model-specific instructions and safety precautions.

General Installation Guidelines:

1. **Safety First:** Disconnect the spark plug wire(s) and remove the ignition key to prevent accidental starting. Ensure the equipment is on a stable, level surface and the parking brake is engaged.
2. **Access the Clutch:** Depending on your mower model, you may need to remove the mower deck or other components to gain access to the existing PTO clutch.
3. **Disconnect Wiring:** Carefully disconnect the electrical wiring harness from the old clutch. Note the routing of the wires.
4. **Remove Old Clutch:** Unbolt and remove the old PTO clutch from the engine crankshaft. Be aware of any shims or spacers that may be present and note their orientation.
5. **Inspect Crankshaft:** Clean the engine crankshaft and inspect it for any damage or wear.
6. **Install New Clutch:** Carefully slide the new Xtreme X0003 PTO clutch onto the crankshaft, ensuring proper alignment with any keyways or splines. Secure it with the appropriate bolts, tightening them to the manufacturer's specified torque.
7. **Connect Wiring:** Connect the integrated water-tight wire harness of the new clutch to the mower's electrical system. Ensure a secure and proper connection.
8. **Reassemble:** Reinstall any components that were removed to access the clutch (e.g., mower deck).
9. **Test:** Before operating, perform a thorough test of the clutch engagement and disengagement in a safe, open area.



Figure 3: Side view of the Xtreme X0003 PTO Blade Clutch, highlighting the robust construction and integrated wiring.

OPERATING INSTRUCTIONS

The PTO blade clutch is an integral part of your lawn tractor's cutting system. Its operation is typically controlled by a switch or lever on your mower's control panel.

- **Engagement:** To engage the mower blades, activate the PTO switch or lever. The clutch will engage, transferring power from the engine to the mower deck blades. Ensure the engine is running at the recommended RPM for optimal cutting performance.
- **Disengagement:** To disengage the mower blades, deactivate the PTO switch or lever. The clutch will disengage, stopping the blade rotation. Always disengage the PTO before transporting the mower, clearing obstructions, or performing any maintenance.

Always follow the operating instructions provided in your specific lawn tractor's owner's manual for safe and effective use of the PTO system.

MAINTENANCE

Proper maintenance of your PTO blade clutch can significantly extend its lifespan and ensure consistent performance. While the Xtreme X0003 clutch features a replaceable pulley bearing, regular inspection is key.

- **Regular Inspection:** Periodically inspect the clutch for signs of wear, damage, or excessive heat. Check the electrical connections for corrosion or looseness.
- **Cleanliness:** Keep the clutch area free from grass clippings, dirt, and debris, which can impede cooling and cause

premature wear.

- **Belt Tension:** Ensure that the mower deck belt connected to the clutch pulley is properly tensioned according to your mower's specifications. Incorrect belt tension can lead to clutch slippage or excessive load.
- **Bearing Check:** Listen for unusual noises (grinding, squealing) from the clutch, which may indicate a worn bearing. The replaceable pulley bearing feature allows for servicing this component if needed.

For detailed maintenance schedules and procedures, consult your lawn tractor's owner's manual.

TROUBLESHOOTING

If you experience issues with your PTO blade clutch, consider the following common problems and potential solutions:

Problem	Possible Cause	Solution
Clutch does not engage	No power to clutch (electrical issue)	Check wiring connections and fuses.
	Faulty PTO switch	Test or replace PTO switch.
	Worn clutch mechanism	Inspect clutch for mechanical failure; replace if necessary.
	Safety interlock engaged	Ensure operator is seated, parking brake is on, and deck is raised (if applicable).
Clutch slips or blades stop	Incorrect belt tension	Adjust belt tension according to mower manual.
	Worn belt	Replace worn belt.
	Overload (e.g., cutting too much grass)	Reduce cutting load; raise deck height.
	Internal clutch wear	Inspect clutch; replacement may be required.
Excessive noise or vibration	Worn bearing	Inspect and replace pulley bearing if worn.
	Loose mounting bolts	Check and tighten mounting bolts.
	Damaged pulley	Inspect pulley for damage; replace clutch if pulley is damaged.

If these troubleshooting steps do not resolve the issue, it is recommended to consult a certified service technician.

SPECIFICATIONS

Attribute	Value
Crankshaft Diameter	1.000 inches
Pulley Diameter	5.345 inches
Rotation	Counter Clockwise
Belt Type Compatibility	1/2 inch or 5/8 inch Belt
Torque Rating	80 ft. lbs.
Product Dimensions	11 x 9 x 6 inches
Item Weight	14 pounds
Manufacturer	Outdoor Power Xtreme Equipment

Attribute	Value
OEM Cross-Reference	ARIENS 03643100, OREGON 33-112, WARNER 5217-35

IMPORTANT INFORMATION

Xtreme Mower Clutches is a registered trademark of Extreme Mower Clutches Inc. (XMCI) of Boca Raton Florida. XMCI does not imply any association or affiliation with any OEM Manufacture including Warner Electric, Ogura Industrial Corp., John Deere, Exmark/Toro, Hustler, Husqvarna, Cub Cadet, or any of its associates or affiliates, trademarks or copyrights. XMCI also states "OEM Upgrade" or "Warner Upgrade" only refers to the billet pulley, the use of stainless steel braking rivets, replaceable pulley bearing, Xtreme wire protection system, and Cool coil technology, most of which are unique to the Xtreme Mower Clutch product line.

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Xtreme X0003 PTO Blade Clutch, please contact Outdoor Power Xtreme Equipment directly. Refer to the contact information provided with your purchase or visit the official Xtreme website for assistance.
For general inquiries or to explore other products, you may visit the [Xtreme Store on Amazon](#).

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