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Xtreme X0044

Xtreme X0044 PTO Clutch Instruction Manual

For Gravely PM 252Z Series and Compatible Models

1. PRODUCT OVERVIEW

The Xtreme X0044 PTO (Power Take-Off) Clutch is a high-quality replacement component designed for various outdoor power equipment, including specific Gravely, Ariens, Great Dane, and Woods models. This clutch is engineered to provide reliable power transfer from the engine to the cutting deck or other implements, ensuring efficient operation of your machinery.



Image 1.1: Front view of the Xtreme X0044 PTO Clutch, showing the main body, pulley, and electrical wiring harness.

2. KEY FEATURES

- **Xtreme Torque Series:** Designed for high torque applications, reducing overheating and premature failure.
- **High Torque Cool Coil Upgrade:** Enhances durability and performance under heavy use.
- **Heavy Duty "FatBoy Series" Upgrade:** Indicates robust construction for extended lifespan.
- **Replaceable Pulley Bearing:** Facilitates easier maintenance and extends the life of the clutch.
- **Super Smooth "Xtreme Precision" Machined Pulley:** Ensures efficient and consistent power transfer.
- **Upgraded to 3 Layer "Xtreme TOUGH" Integrated, Water Tight Wire Harness:** Provides enhanced protection against environmental elements and wear.
- **Stainless Steel Rivets:** Premium grade stainless steel brake rivets offer superior resistance to rigorous conditions compared to aluminum or copper.



Image 2.1: Diagram illustrating key components of the PTO clutch, including machined pulleys, FatBoy bearing, high temp bearing, high torque transmission, cool coils, stainless steel rivets, and triple protected wire harness.

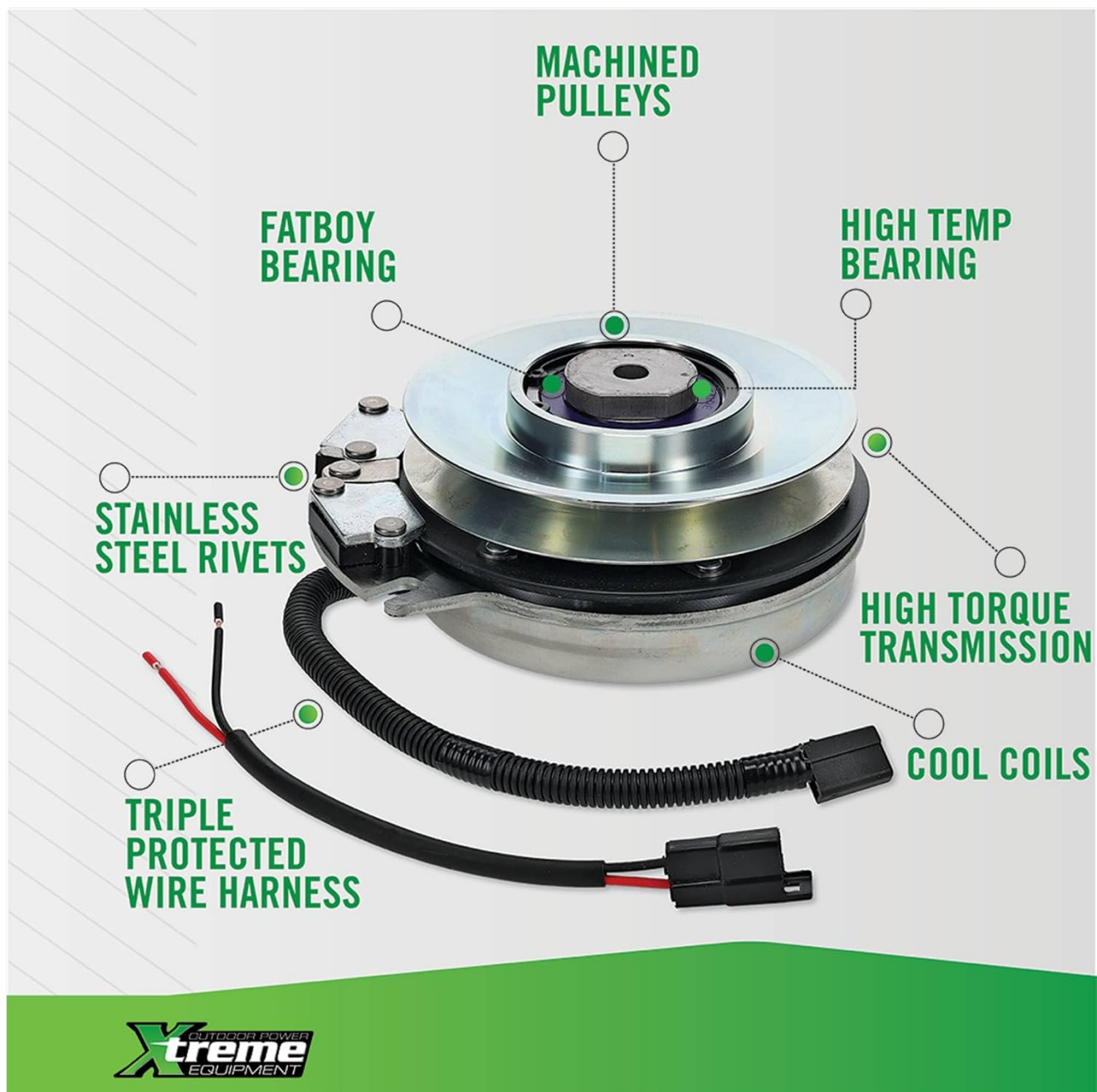


Image 2.2: Close-up view highlighting the high torque transmission feature of the Xtreme PTO clutch, designed for heavy-duty lawn care usage.

PTO CLUTCHES

High Torque Transmission:

Xtreme PTO (Power Take-Off) clutches deliver high torque, reducing over-heating and premature failing for heavy-duty lawn care usage.



Image 2.3: Detail showing the premium grade stainless steel brake rivets used in the clutch, emphasizing their durability.

3. SPECIFICATIONS

Attribute	Value
Description	PTO Clutch
Crankshaft Diameter	1.125 inches
Pulley Diameter	6 inches
Rotation	Counter Clockwise
Belt Type	A/B Belt
Torque Rating	175 ft. lbs.
Product Dimensions	11 x 9 x 6 inches

Attribute	Value
Item Weight	12.77 pounds
Manufacturer	Outdoor Power Xtreme Equipment

4. COMPATIBILITY

This PTO clutch is designed as a direct replacement for the following OEM part numbers and is compatible with the listed equipment models:

Replacement For OEM Part Numbers:

- **Ariens:** 389900, 9208000, 9232700, 9266700
- **Gravely:** 389900, 9208000, 9232700, 9266700
- **Great Dane:** GDA10122, 33-120, 33-138
- **Prime:** 7-06271
- **Rotary:** 14009
- **Sears Craftsman:** 389900, 255-627
- **Warner:** 5218-31, 5218-94
- **Wood Mizer:** P604
- **Woods:** 389900, 9232700, 9266700

Compatible With/Replacement For Equipment Models:

- **Ariens:** PM Series, Zoom 2050, Zoom 2552XL, Zoom 2560XL
- **Gravely:** PM 252Z Series, PM Series
- **Great Dane:** Chariot Briggs & Stratton 23hp Vanguard, Chariot Briggs & Stratton 26hp, Chariot Kohler 26hp, 27hp & 28hp, Chariot LX Kohler 26hp, 27hp & 28hp
- **Woods:** M1950 - M1952 Mow@ n Machine, M2050 - M2250 Mow@ n Machine, M2560 - M2760 Mow@ n Machine

5. INSTALLATION GUIDELINES

Installation of a PTO clutch requires mechanical aptitude and proper tools. It is highly recommended that installation be performed by a qualified service technician to ensure correct fitment and safe operation. Incorrect installation can lead to equipment damage or personal injury.

General Steps (Consult your equipment's service manual for specific instructions):

1. **Safety First:** Disconnect the spark plug wire(s) or battery to prevent accidental engine start. Ensure the equipment is on a stable, level surface.
2. **Access the Clutch:** Depending on your equipment model, you may need to remove the cutting deck, engine shrouds, 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.
5. **Inspect Crankshaft:** Clean the engine crankshaft and inspect it for any damage or wear.

6. **Install New Clutch:** Carefully slide the new Xtreme X0044 PTO Clutch onto the crankshaft, ensuring it seats properly. Align any anti-rotation pins or brackets with their corresponding holes on the engine or frame.
7. **Secure Clutch:** Bolt the new clutch securely in place, tightening fasteners to the torque specifications provided in your equipment's service manual.
8. **Connect Wiring:** Connect the new clutch's wiring harness to the equipment's electrical system. Ensure a secure and proper connection. The Xtreme clutch features a 3-layer "Xtreme TOUGH" integrated, water-tight wire harness for enhanced durability.
9. **Reassemble:** Reinstall any components that were removed to access the clutch.
10. **Test Operation:** Reconnect the spark plug wire(s) or battery. Test the PTO engagement and disengagement in a safe, open area, ensuring smooth operation and proper function.



Image 5.1: Close-up view of the integrated, water-tight wire harness of the Xtreme PTO Clutch, showing the robust connection points.

6. OPERATING THE PTO CLUTCH

The PTO clutch is an essential component for engaging and disengaging power to attachments like mower decks, tillers, or snow blowers. Once installed, its operation is typically controlled by a switch or lever on your equipment's control panel.

- **Engagement:** When the PTO is engaged, the clutch receives an electrical signal, causing it to activate and transfer engine power to the attached implement. This allows the blades to spin or the attachment to operate.
- **Disengagement:** When the PTO is disengaged, the electrical signal is removed, and the clutch releases, stopping power transfer to the implement. This is crucial for safety and when the attachment is not needed.
- **Smooth Operation:** The Xtreme X0044 PTO Clutch is designed for smooth engagement and disengagement, minimizing shock to the system and extending the life of both the clutch and the equipment.

7. MAINTENANCE

While the Xtreme X0044 PTO Clutch is designed for durability and minimal maintenance, periodic inspection can help ensure its longevity and optimal performance.

- **Regular Inspection:** Periodically inspect the clutch for signs of wear, damage, or excessive vibration. Check the wiring harness for fraying or loose connections.
- **Cleanliness:** Keep the area around the clutch free from debris, grass clippings, and dirt, which can interfere with its operation and heat dissipation.
- **Bearing Check:** The replaceable pulley bearing should be checked for smooth rotation and any signs of noise or play. If necessary, replace the bearing to prevent further damage to the clutch.
- **Belt Condition:** Ensure the A/B belt is in good condition, properly tensioned, and free from cracks or excessive wear. A worn belt can affect clutch performance.

8. TROUBLESHOOTING

If you experience issues with your PTO clutch, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Clutch does not engage	No power to clutch, faulty switch, wiring issue, worn clutch.	Check electrical connections, test PTO switch, inspect wiring for damage, consult a technician for clutch diagnosis.
Clutch engages but attachment does not spin	Loose or broken belt, seized pulley bearing, attachment issue.	Inspect and tension/replace belt, check pulley bearing for free rotation, inspect attachment for obstructions.
Clutch makes excessive noise or vibrates	Worn bearing, loose mounting bolts, bent crankshaft.	Inspect and replace bearing if necessary, check mounting bolts for tightness, consult technician for crankshaft inspection.
Clutch overheats	Excessive load, poor ventilation, internal clutch issue.	Reduce load, ensure proper airflow around clutch, consult technician.

For complex issues or if you are unsure about diagnosis, it is always best to consult a certified service technician.

9. SAFETY INFORMATION

Always prioritize safety when working with power equipment and replacement parts. Failure to follow safety precautions can result in serious injury or death.

- **Read Manuals:** Always read and understand the instruction manual for your specific equipment before

attempting any maintenance or part replacement.

- **Disconnect Power:** Before working on the PTO clutch or any part of the equipment, always disconnect the spark plug wire(s) and/or the battery to prevent accidental starting.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses, gloves, and sturdy footwear.
- **Stable Work Area:** Ensure the equipment is on a stable, level surface and properly secured before beginning work.
- **Proper Tools:** Use the correct tools for the job.
- **Professional Assistance:** If you are not confident in your ability to perform the installation or repair, seek assistance from a qualified service technician.
- **Hot Surfaces:** Engine and clutch components can become very hot during operation. Allow them to cool before handling.

10. WARRANTY AND SUPPORT

This Xtreme PTO Clutch is manufactured by Outdoor Power Xtreme Equipment. For specific warranty information or technical support, please refer to the documentation provided with your purchase or contact Outdoor Power Xtreme Equipment directly. Keep your purchase receipt as proof of purchase.

Note: Xtreme Mower Clutches is a registered trademark of Xtreme 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.