

## 8TEN 810-CPT23000

# 8TEN PTO Clutch for John Deere 345 GX345 - Installation and Maintenance Manual

Model: 810-CPT23000

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the 8TEN PTO Clutch, compatible with John Deere 345 and GX345 models, and other specified equipment. Refer to this guide for optimal performance and longevity. The 8TEN PTO Clutch is engineered for durability and reliable power transfer in demanding lawn and garden applications.

## 2. PRODUCT FEATURES

- **OEM Compatibility:** Directly replaces Ogura MA-GT-JD23BF, MA-GT-JD23, and John Deere AM131779.
- **Wide Application:** Compatible with John Deere 345 (M00345C010001-020000, M00345C020001-040000, M00345C040001-055000) 1995-1997, GX335 (M0G335C105001-110000, M0G335C110001-120000) 2002-2004, GX345 (M0G345C105001-110000, M0G345C110001-120000) 2002-2004, GX355 (M0G355C105001-110000, M0G355C110001-120000) 2002-2004. Also compatible with various MTD Walk Behind Vacuum models from 1985-1992.
- **Extended Lifespan:** Designed for a B10 life of 25,000 cycles at 2000 hours.
- **Optimal Performance:** Features CCW rotation, 1-1/8 Inch crankshaft size, 5.35 Inch pulley OD, 120 FT.LBS torque, and operating speeds up to 3600rpm with normal working noise.

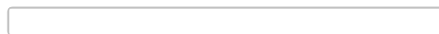


Figure 2.1: Detailed diagram illustrating the advanced features of the 8TEN PTO Clutch, including anti-high and low temperature bearing, encapsulated coils, and stainless steel leaf springs.

## 3. SPECIFICATIONS

Specification	Value
Product Dimensions	9.3 x 8.1 x 4.9 inches
Item Weight	11.2 ounces
Item Model Number	810-CPT2300O
Clutch Rotation	CCW (Counter-Clockwise)
Crankshaft Size	1-1/8 Inch
Pulley OD	5.35 Inch
Torque	120 FT.LBS
Operating Speed	Up to 3600rpm
Manufacturer	Mishon Inc

## 4. INSTALLATION (SETUP)

Proper installation is crucial for the longevity and performance of your PTO clutch. Always refer to your equipment's service manual for specific instructions and safety precautions before beginning any work.

### 4.1 General Installation Steps:

- Safety First:** Ensure the equipment is turned off, the engine is cool, and the spark plug wire is disconnected to prevent accidental starting.
- Access the Clutch:** Depending on your equipment model, you may need to remove the mower deck or other components to gain access to the PTO clutch.
- Disconnect Wiring:** Carefully disconnect the electrical wiring from the old clutch. Note the routing for reinstallation.
- Remove Old Clutch:** Unbolt and remove the old PTO clutch from the engine crankshaft. Be mindful of any washers or spacers.
- Inspect Components:** Check the crankshaft for any damage or wear. Ensure the mounting surface is clean and free of debris.
- Install New Clutch:** Position the new 8TEN PTO clutch onto the crankshaft, ensuring it seats correctly. Secure it with the appropriate bolts and torque them to the manufacturer's specifications.
- Connect Wiring:** Reconnect the electrical wiring to the new clutch. Ensure a secure connection.
- Reassemble:** Reinstall any components that were removed to access the clutch.
- Test Operation:** Reconnect the spark plug wire. Start the engine and carefully test the PTO engagement and disengagement in a safe, open area.

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Video 4.1: A visual guide demonstrating the replacement process for an electric PTO clutch, similar to the 8TEN model. This video highlights key steps for removing and installing the clutch on a lawn tractor.

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Video 4.2: An overview of a PTO clutch, showcasing its components and general appearance, which can be helpful for identifying parts during installation.

## 5. OPERATION

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The 8TEN PTO clutch is designed for reliable engagement and disengagement of power to your mower deck or other attachments. To operate, ensure your equipment is running at the recommended RPMs before engaging the PTO. Engage the PTO switch smoothly. Disengage the PTO when not in use or when transporting the equipment.

## 6. MAINTENANCE

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Regular maintenance helps ensure the longevity and optimal performance of your PTO clutch. While the 8TEN PTO clutch is designed for durability, periodic inspection is recommended.

### 6.1 Recommended Maintenance:

- **Visual Inspection:** Periodically inspect the clutch for any signs of wear, damage, or loose connections. Check the wiring harness for fraying or damage.
- **Cleanliness:** Keep the clutch area free from excessive dirt, grass clippings, and debris, which can impede proper function and heat dissipation.
- **Bearing Check:** Listen for unusual noises during operation, which could indicate bearing wear.

## 7. TROUBLESHOOTING

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

- **Clutch Not Engaging:** Check electrical connections, ensure the PTO switch is functioning correctly, and verify the battery voltage.
- **Clutch Not Disengaging:** Inspect the PTO switch and wiring for faults. Ensure no debris is obstructing the clutch mechanism.
- **Excessive Noise or Vibration:** This could indicate a worn bearing or an unbalanced component. Discontinue use and inspect the clutch and surrounding parts.
- **Overheating:** Ensure the clutch area is clean and free of obstructions for proper airflow. Verify the clutch is correctly installed and torqued.

For persistent issues, consult a qualified service technician or refer to your equipment's specific service manual.

## 8. WARRANTY AND SUPPORT

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The 8TEN PTO Clutch is backed by a **810-Day Warranty**, reflecting our commitment to quality and customer satisfaction. For warranty claims or technical support, please contact 8TEN customer service through their official channels.



Figure 8.1: The 810-Day Warranty logo, signifying the product's coverage period.

## 9. PRODUCT OVERVIEW VIDEO

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Video 9.1: An introductory video from 8TEN, highlighting their range of aftermarket lawn and garden replacement parts, including PTO clutches.