

RATION 09266700

RATION PTO Clutch Instruction Manual

Model: 09266700

Brand: RATION

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your RATION PTO Clutch, model 09266700. This clutch is designed for use with Woods M2560 and M2760 Mow'n Machine models, and is also compatible with part numbers 09232700, 00389900, 09208000, 5218-31, 5218-94, 255-627, 230-4061, 14009, and 7-06271. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

Always observe the following safety precautions when handling, installing, or operating the PTO clutch:

- Disconnect the machine's battery and ensure all power is off before beginning any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the machine is stable and secured to prevent accidental movement.
- If you are unsure about any installation steps, consult a qualified technician.
- Keep hands, feet, and clothing away from moving parts during operation.
- Inspect the clutch and surrounding components regularly for wear or damage.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- RATION PTO Clutch (Model 09266700)
- Mounting hardware (if applicable, check your specific model for included items)
- Instruction Manual (this document)



Image 1: The RATION PTO Clutch, showing the main body, integrated wiring harness, and a separate mounting washer.

4. SETUP AND INSTALLATION

The following steps outline a general procedure for replacing a PTO clutch. Specific steps may vary depending on your machine model. Refer to your machine's service manual for detailed instructions.

1. **Preparation:** Park the machine on a level surface, engage the parking brake, and remove the ignition key. Disconnect the battery cables (negative first).
2. **Access the Clutch:** Depending on your machine, you may need to remove the mower deck, drive belts, or other components to gain access to the existing PTO clutch.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old PTO clutch.
4. **Remove Old Clutch:** Loosen and remove the bolt(s) securing the old clutch to the engine crankshaft. Note the orientation of any washers or spacers.
5. **Clean Mounting Area:** Clean any debris or rust from the engine crankshaft and the mounting surface.
6. **Install New Clutch:** Slide the new RATION PTO clutch onto the engine crankshaft, ensuring it seats properly. Align any anti-rotation brackets or pins with their corresponding slots on the engine or frame.
7. **Secure Clutch:** Install the mounting bolt(s) and torque them to the manufacturer's specifications (refer to your machine's service manual).
8. **Connect Wiring:** Connect the electrical connector of the new clutch to the machine's wiring harness.

Ensure a secure connection.

9. **Reassemble:** Reinstall any components that were removed to access the clutch (belts, mower deck, etc.).
10. **Final Check:** Reconnect the battery (positive first). Before starting the engine, manually check that the clutch and associated belts move freely.



Image 2: Underside view of the RATION PTO Clutch, highlighting the central mounting hole and the electromagnetic coil area.

5. OPERATING INSTRUCTIONS

The PTO (Power Take-Off) clutch engages and disengages power to the mower deck or other attachments. Operation is typically controlled by a switch on your machine's dashboard.

- **Engaging the PTO:** With the engine running at the recommended RPM (check your machine's manual), activate the PTO switch. The clutch will engage, transferring power to the attachment.
- **Disengaging the PTO:** Deactivate the PTO switch. The clutch will disengage, stopping power to the attachment.
- Avoid engaging or disengaging the PTO at excessively high engine RPMs, as this can cause premature wear.
- Ensure the area around the attachment is clear before engaging the PTO.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and reliable performance of your PTO clutch.

- **Visual Inspection:** Periodically inspect the clutch for signs of wear, damage, or corrosion. Check the wiring harness for fraying or loose connections.
- **Cleaning:** Keep the clutch free of grass clippings, dirt, and debris. A clean clutch operates more efficiently and dissipates heat better.
- **Belt Tension:** Ensure that the drive belts connected to the clutch are properly tensioned according to your machine's specifications. Incorrect tension can lead to clutch slippage or excessive wear.
- **Bearing Check:** Listen for unusual noises from the clutch, which could indicate worn bearings.

7. TROUBLESHOOTING

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

- **Clutch Not Engaging:**
 - Check electrical connections for looseness or corrosion.
 - Verify the PTO switch is functioning correctly.
 - Inspect the wiring harness for damage.
 - Ensure the machine's battery is fully charged and providing adequate voltage.
- **Clutch Slipping:**
 - Check drive belt tension; adjust if too loose.
 - Inspect belts for wear or glazing.
 - Ensure the clutch is free of oil or grease contamination.
- **Unusual Noise (Grinding, Squealing):**
 - Could indicate worn bearings within the clutch.
 - Check for foreign objects caught in the clutch or belt system.
 - Inspect belts for damage or misalignment.

If troubleshooting steps do not resolve the issue, contact a qualified service technician.

8. SPECIFICATIONS

Brand	RATION
Model Number	09266700
Compatible Part Numbers	09232700, 00389900, 09208000, 5218-31, 5218-94, 255-627, 230-4061, 14009, 7-06271
Manufacturer	RATION
ASIN	B0FDFXYLQM

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided at the point of

purchase or contact your retailer. Specific warranty terms may vary.