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> MechMaxx NAM68 68-Inch PTO Flail Mower Instruction Manual

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[Introduction](#)

[Safety](#)

[Setup](#)

[Operation](#)

[Maintenance](#)

[Support](#)

[Troubleshooting](#)

[Specifications](#)

[Warranty &](#)

1. INTRODUCTION

This manual provides essential instructions for the safe assembly, operation, and maintenance of your MechMaxx NAM68 68-Inch PTO Flail Mower. Please read this manual thoroughly before using the equipment to ensure proper function and to prevent injury or damage. Keep this manual for future reference.

The MechMaxx NAM68 flail mower is designed for efficient cutting of various vegetation types in larger areas, suitable for tractors with 30-60 horsepower and a Category 1, 3-point hitch.



Figure 1: MechMaxx NAM68 68-Inch PTO Flail Mower, front view.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions can result in serious injury or death.

- Always read and understand the entire manual before operating the flail mower.
- Ensure all guards and safety shields are in place and properly secured before operation.
- Keep hands, feet, and clothing away from moving parts, especially the flail hammers and PTO shaft.
- Never operate the mower with anyone standing near the equipment. Maintain a safe distance from bystanders.
- Wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and sturdy footwear.
- Before performing any maintenance, adjustments, or clearing blockages, always disengage the PTO, shut off the tractor engine, remove the key, and wait for all moving parts to stop.
- Ensure the tractor's horsepower (HP) rating is within the recommended range of 30-60 HP for this mower.
- Always ensure the PTO shaft is correctly sized and installed to prevent damage to the mower or tractor.
- Do not operate on excessively steep slopes where the tractor or mower could become unstable.

3. COMPONENTS OVERVIEW

The MechMaxx NAM68 flail mower consists of several key components:

- **Main Housing:** Protects internal components and directs cut material.
- **Rotor with Flail Hammers:** The rotating shaft equipped with 28 forged flail hammers for cutting and shredding vegetation.
- **Gearbox:** Transfers power from the PTO shaft to the rotor.
- **PTO Drive Shaft:** Connects the mower's gearbox to the tractor's PTO output.
- **3-Point Hitch Frame:** Connects the mower to the tractor's Category 1, 3-point hitch.

- **Rear Roller:** Helps maintain cutting height and smooth operation.



Figure 2: The rotor with 28 forged flail hammers.

4. SETUP

4.1 Unpacking and Initial Inspection

The flail mower is typically shipped in a protective steel frame crate. Carefully remove the packaging. Inspect all components for any shipping damage. Report any damage to the carrier and supplier immediately.

4.2 Gearbox Oil Filling

WARNING: The gearbox is shipped without oil. Failure to add oil before first use will cause severe damage and void the warranty.

Before initial operation, fill the gearbox with 1.20 liters (1.27 quarts) of 85W-90 gearbox oil. Locate the oil filler hole on the gearbox and use a funnel to add the oil until it reaches the specified level.



Figure 3: Gearbox oil filling instructions. Must add 1.20L (1.27 quart) of 85W-90 gearbox oil before first use.

4.3 PTO Shaft Assembly and Sizing

The included PTO drive shaft must be connected to your tractor. It may require cutting to the proper length to prevent damage during operation. Refer to your tractor's manual and the PTO shaft manufacturer's instructions for correct sizing and installation procedures. Ensure the PTO shaft is securely attached to both the tractor and the mower's gearbox.



Figure 4: PTO shaft connection. Ensure 540 RPM operation.

4.4 3-Point Hitch Connection

Attach the flail mower to your tractor's Category 1, 3-point hitch. Ensure all pins and clips are securely fastened. Adjust the top link and lift arms to achieve the desired mowing height and level operation. The mower is designed for offset category 1, 3-point hitch connections.



Figure 5: Flail mower connected to a tractor's 3-point hitch.

5. OPERATING INSTRUCTIONS

5.1 Tractor Compatibility

This flail mower requires a tractor with 30-60 horsepower (HP) and a Category 1, 3-point hitch. Operating with a tractor outside this HP range may result in inefficient performance or damage to the equipment.



Figure 6: Recommended tractor horsepower for the NAM68 flail mower.

5.2 Engaging PTO

With the mower properly attached and the tractor engine running at a low idle, engage the PTO slowly and smoothly. Gradually increase the tractor's engine RPM to achieve the recommended 540 RPM at the PTO shaft for optimal cutting performance. Avoid sudden engagement or disengagement of the PTO.

5.3 Mowing Techniques

- Begin mowing in an open area to familiarize yourself with the mower's operation.
- Adjust the cutting height using the tractor's 3-point hitch and the mower's rear roller.
- For dense vegetation or tall grass, reduce your ground speed to allow the flail hammers to effectively cut and shred material.
- The 68-inch working width allows for efficient coverage of large areas.
- Avoid striking large rocks, stumps, or other solid objects that could damage the flail hammers or the mower.



Figure 7: The NAM68 offers a 68-inch working width for efficient mowing.

6. MAINTENANCE

WARNING: Always disengage PTO, shut off the tractor, remove the key, and wait for all moving parts to stop before performing any maintenance.

6.1 Regular Lubrication

Regularly grease all fittings on the mower, including those on the PTO shaft, gearbox, and roller bearings. Refer to

the lubrication points indicated in the manual or on the machine itself. Proper lubrication extends the life of moving parts.

6.2 Blade Inspection and Replacement

Periodically inspect the 28 flail hammers for wear, damage, or looseness. Worn or damaged hammers should be replaced promptly to maintain cutting efficiency and balance. Ensure replacement hammers are genuine MechMaxx parts.

6.3 Gearbox Oil Checks

Check the gearbox oil level regularly, especially after the first few hours of operation and then seasonally. Top up with 85W-90 gearbox oil as needed. Inspect for any signs of oil leaks, which should be addressed immediately.

6.4 General Fastener Checks

Before each use, check the tightness of all nuts, bolts, and allen screws, particularly on the belt pulleys and mounting points. Vibration during operation can cause fasteners to loosen over time.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor cutting performance	Worn or damaged flail hammers; incorrect PTO speed; excessive ground speed.	Inspect and replace hammers; ensure PTO is at 540 RPM; reduce tractor ground speed.
Excessive vibration	Unbalanced rotor (due to missing/damaged hammers); loose fasteners; bent PTO shaft.	Inspect and replace hammers to balance rotor; tighten all fasteners; inspect PTO shaft for damage.
Gearbox oil leak	Damaged seal; loose housing bolts.	Inspect and replace seals; tighten gearbox housing bolts. Contact customer support if issue persists.
PTO shaft not engaging/slipping	Incorrect PTO shaft length; worn PTO shaft splines; clutch issues (if applicable).	Verify PTO shaft length; inspect splines; consult tractor manual for PTO clutch issues.

8. SPECIFICATIONS

Feature	Detail
Model Number	NAM68
Working Width	68 Inches
Recommended Tractor HP	30-60 HP
Hitch Type	Category 1, 3-Point Hitch (Offset)
PTO Speed	540 RPM
Number of Flail Hammers	28
Gearbox Oil Type	85W-90

Feature	Detail
Gearbox Oil Capacity	1.20 L (1.27 Quarts)
Material	Alloy Steel
Item Weight	673 Pounds
Product Dimensions	74 x 28 x 22 inches
Assembly Required	Yes

9. WARRANTY AND SUPPORT

MechMaxx offers a 30-day easy return policy for this product. For any questions, technical assistance, or warranty claims, please contact MechMaxx customer support. Ensure you have your product model number (NAM68) and purchase details available when contacting support.

You can typically find contact information through the retailer where the product was purchased or on the official MechMaxx website.