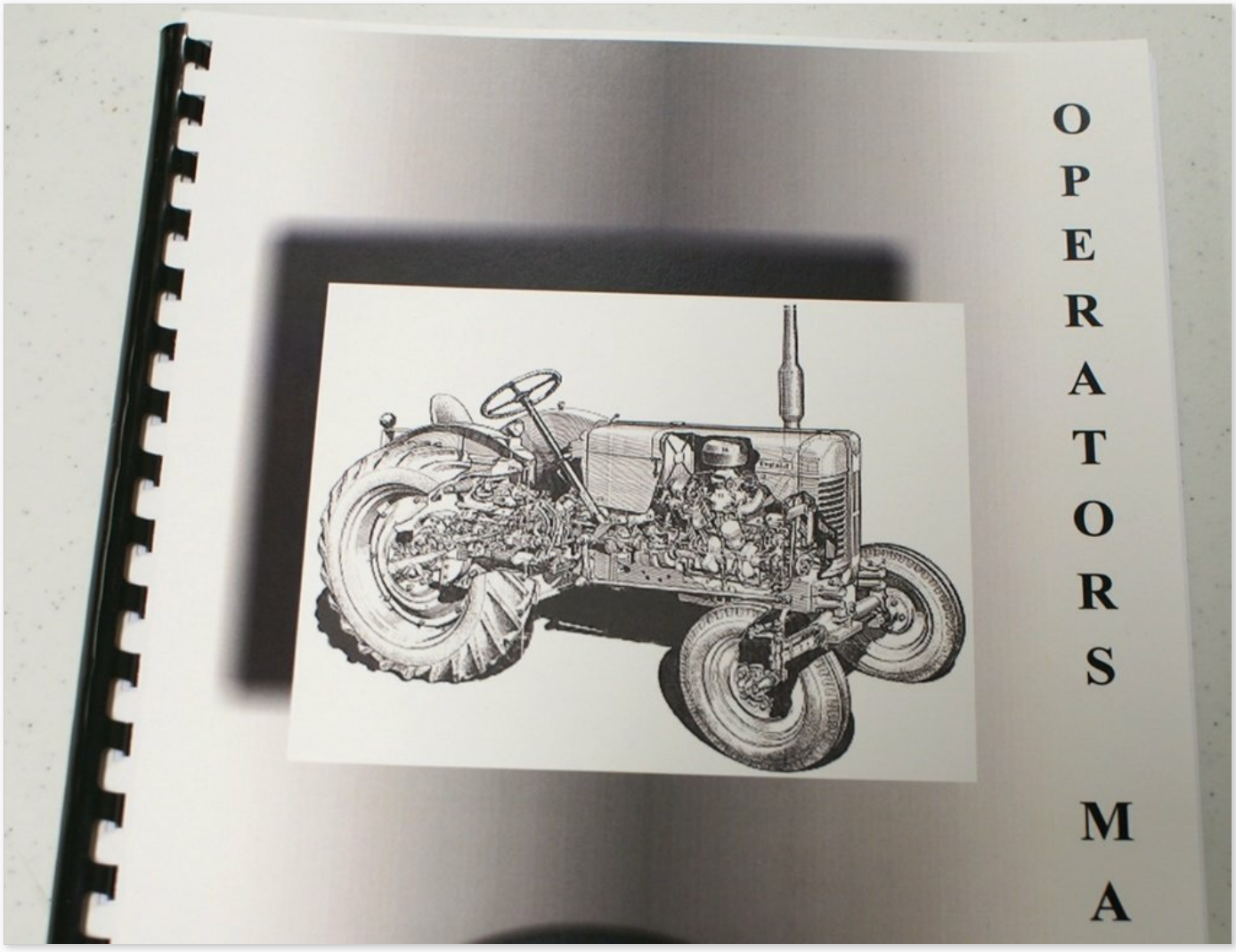
New Holland 130, 145, 155, 165, 185, 513, 514, 519, 520, 679, 680

New Holland Manure Spreaders Operator's Manual

Models: 130, 145, 155, 165, 185, 513, 514, 519, 520, 679, 680

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of New Holland Manure Spreaders, including models 130, 145, 155, 165, 185, 513, 514, 519, 520, 679, and 680. Read this manual thoroughly before operating the equipment to ensure proper use and to prevent injury or damage.
For additional support or specific inquiries, refer to the Warranty and Support section.



This image displays the cover of the New Holland Manure Spreader Operator's Manual, featuring the brand logo and model numbers.

2. Safety Information

Always prioritize safety when operating and maintaining your manure spreader. Failure to follow safety instructions can result in serious injury or death.

- **Read the Manual:** Understand all operating procedures and safety warnings before use.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses, gloves, and sturdy footwear.
- **Machine Inspection:** Before each use, inspect the spreader for loose parts, damaged components, or leaks.
- **Clear Area:** Ensure the operating area is clear of bystanders, especially children and animals.
- **Power Take-Off (PTO):** Always disengage the PTO and shut off the tractor engine before performing any adjustments, maintenance, or clearing blockages. Keep all PTO shields in place.
- **Transport Safety:** Securely attach the spreader to the tractor. Observe speed limits and traffic laws during transport.
- **Manure Handling:** Be aware of potential hazards associated with manure, including gases and pathogens.

3. Setup and Pre-Operation

Proper setup ensures optimal performance and safety.

1. **Attachment to Tractor:**
    - Ensure the tractor's horsepower matches the spreader's requirements.
    - Connect the drawbar securely.
    - Attach the PTO shaft, ensuring it is correctly aligned and locked.
    - Connect hydraulic hoses (if applicable) and electrical connections.
2. **Tire Pressure:** Check and adjust tire pressure according to the specifications provided in Section 7.
3. **Lubrication:** Lubricate all grease points as indicated in the maintenance schedule (Section 5).
4. **Initial Inspection:** Verify all guards and shields are in place and secure. Check for any shipping damage or loose fasteners.

4. Operating Instructions

Follow these steps for effective and safe operation of your manure spreader.

1. **Loading the Spreader:**
    - Load manure evenly to prevent imbalance.
    - Do not overload the spreader beyond its rated capacity.
    - Avoid loading large rocks or debris that could damage the beaters.
2. **Engaging PTO:**
    - Ensure the tractor is in neutral and the engine is at low RPM.
    - Engage the PTO slowly and smoothly.
    - Increase engine RPM to the recommended operating speed.

3. **Spreading Manure:**
    - Maintain a consistent ground speed for even distribution.
    - Adjust the apron chain speed and beater speed as needed for desired spread pattern and density.
    - Observe the spread pattern and make adjustments to avoid over-application in any single area.
4. **Disengaging and Unloading:**
    - Once spreading is complete, disengage the PTO.
    - Lower the tractor engine RPM.
    - Clean the spreader thoroughly after each use to prevent corrosion and buildup.

5. Maintenance Procedures

Regular maintenance is crucial for the longevity and reliable operation of your manure spreader.

Daily Maintenance:

- Clean the spreader thoroughly to remove manure and debris.
- Inspect beaters for wear or damage.
- Check all fasteners for tightness.
- Lubricate all grease points.

Weekly/50-Hour Maintenance:

- Inspect apron chains for tension and wear. Adjust if necessary.
- Check gearbox oil level and replenish if low.
- Inspect tires for damage and proper inflation.
- Examine hydraulic hoses for leaks or damage.

Seasonal/Annual Maintenance:

- Replace gearbox oil.
- Inspect all bearings and replace if worn.
- Check and adjust all drive chains and belts.
- Repaint any areas where paint is chipped to prevent rust.
- Store the spreader in a dry, protected area during off-season.

6. Troubleshooting

This section provides solutions to common operational issues.

Problem	Possible Cause	Solution
Uneven spreading	Incorrect ground speed; uneven loading; worn beaters	Adjust ground speed; load manure evenly; inspect and replace beaters if necessary
Apron chain not moving	Chain too loose or too tight; obstruction; hydraulic issue	Adjust chain tension; clear obstruction (with PTO disengaged); check hydraulic fluid and connections

Problem	Possible Cause	Solution
Excessive vibration	Unbalanced load; worn bearings; bent beater shaft	Distribute load evenly; inspect and replace bearings; check beater shaft for damage
PTO shaft overheating	Improper lubrication; incorrect shaft length; worn universal joints	Lubricate PTO shaft; ensure correct shaft length; replace worn universal joints

7. Specifications

Refer to the specific model plate on your spreader for exact specifications. General specifications for New Holland Manure Spreaders (Models 130, 145, 155, 165, 185, 513, 514, 519, 520, 679, 680) typically include:

- **Capacity:** Varies by model (e.g., 130 bushels to 680 bushels).
- **Overall Length:** Varies by model.
- **Overall Width:** Varies by model.
- **Tractor PTO Horsepower Requirement:** Consult your specific model's documentation.
- **Tire Size:** Varies by model and configuration.
- **Weight (Empty):** Varies by model.

8. Warranty and Support

For information regarding your product's warranty, please refer to the warranty card included with your original purchase or contact your authorized New Holland dealer. Warranty terms and conditions may vary based on region and model. For technical support, spare parts, or service, please contact your local authorized New Holland service center. Provide your model number and serial number for efficient assistance.
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