GENERAL

john deere model h manure spreader parts

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Understanding John Deere Model H Manure Spreader Parts: A Comprehensive Guide

Farmers and agronomists know that a well maintained manure spreader can make the difference between a thriving field and a mediocre one. The John Deere Model H, a popular tractor in many North American farms, is often paired with a high quality manure spreader to optimize fertilizer distribution, improve soil health, and increase crop yield. However, to keep this essential attachment running smoothly, you need to understand the parts that make it up, how they work together, and when to replace them.

In this guide we'll explore the key components of a John Deere Model H manure spreader, common maintenance issues, troubleshooting tips, and where to source reliable replacement parts. Whether you're a seasoned farmer, a maintenance technician, or a DIY enthusiast, this article will give you the knowledge you need to keep your spreader—and your fields—performing at their best.

Why the John Deere Model H is a Preferred Choice for Manure Spreading

John Deere's Model H tractors have earned a reputation for durability, versatility, and a strong aftermarket support network. When combined with a well designed manure spreader, they become a powerful tool for:

- Even distribution of organic fertilizer across large acreage.
- Reduced labor costs by automating the spreading process.
- Improved soil structure and nutrient cycling.
- Compliance with environmental regulations on nutrient runoff.

Because of these benefits, many farmers invest in high quality manure spreader parts to ensure that the attachment remains efficient over many years of use.

Key Components of a John Deere Model H Manure Spreader

Below is a detailed breakdown of the primary parts that constitute a typical manure spreader attachment for the John Deere Model H. Understanding each component will help you identify wear, plan preventive maintenance, and source replacements when necessary.

1. Hopper (Storage Bin)

The hopper is the first point of contact for manure, compost, or other organic materials. It stores the material before it is fed into the spreader mechanism. Key features include:

- Large capacity (often 10–20 /gallons) to reduce refilling frequency.
- Durable construction—usually high density polyethylene or steel.
- Internal lining or coating to prevent clumping and contamination.

2. Feed Mechanism

The feed mechanism controls the rate at which material exits the hopper and enters the spreader head. Common types include:

- Vibratory feeders—use controlled vibration to move material.
- Gravity feeders—rely on the slope of the hopper.
- Rotary augers—turn to push material forward.

Wear on auger teeth or vibration plates can lead to uneven spreading.

3. Spreader Head (Disperser)

The spreader head is the heart of the manure spreader, responsible for distributing material across the field. It typically consists of:

- Spreading blades or rollers.
- Adjustable spread width settings.
- Speed controlled discharge mechanisms.

Blade wear, misalignment, or hydraulic leaks can reduce spreading accuracy.

4. Drive Shaft and Transmission

The drive shaft transmits power from the tractor to the spreader head. The transmission—often a planetary gear or hydraulic pump—controls the spreader speed. Common issues include:

- Oil leaks causing reduced torque.
- Worn gears leading to slippage.
- Contamination from soil or manure particles.

5. Hydraulic System

Many modern manure spreaders use hydraulic cylinders to adjust the spreader head height and to control the feed mechanism. Essential components are:

- Hydraulic pump.
- Control valves.
- Hydraulic cylinders.
- Seals and hoses.

Hydraulic fluid contamination or seal failure can impair performance.

6. Control Panel and Sensors

Digital or analog control panels allow operators to set spread rates, monitor hydraulic pressure, and adjust spread width. Sensors may include:

- Flow meters.
- Pressure transducers.
- Proximity sensors for load detection.

Electrical issues or sensor drift can lead to inaccurate spreading.

7. Frame and Mounting Brackets

The structural frame supports all other components and attaches the spreader to the tractor. It must be robust and corrosion resistant. Typical materials include:

- Aluminum alloy for weight savings.
- Steel with galvanization for strength.
- Composite materials for high temperature environments.

Common Maintenance Issues and How to Address Them

Regular maintenance is critical to keep a John Deere Model H manure spreader operating at peak efficiency. Below we discuss the most frequent problems and practical solutions.

1. Uneven Spreading Due to Blade Wear

Over time, the spreading blades or rollers can become dull or bent, leading to inconsistent distribution.

1. Inspect the blades for wear or damage.
2. Replace blades or rollers with manufacturer approved parts.
3. Re align the spreader head to ensure even contact.
4. Test on a small plot before full deployment.

2. Feed Mechanism Slippage

Vibratory feeders or augers may lose effectiveness if the vibration plates or teeth are worn.

1. Check vibration plates for cracks or dents.
2. Replace teeth or auger blades if they show significant wear.
3. Ensure the feed rate settings are calibrated for the material type.

3. Hydraulic Leaks and Seal Failure

Hydraulic leaks can reduce the ability to adjust spreader height and feed rates.

1. Inspect seals, hoses, and fittings for signs of wear.
2. Replace O rings and gaskets as needed.
3. Flush the hydraulic system with fresh fluid to remove contaminants.
4. Check pressure readings after repair.

4. Electrical and Control Panel Issues

Faulty sensors or wiring can lead to incorrect spread rates or system failures.

1. Run a diagnostic test on the control panel.
2. Replace corroded wiring or damaged connectors.
3. Calibrate flow meters and pressure sensors.
4. Update firmware if the control system supports it.

5. Frame Corrosion and Structural Fatigue

Exposure to manure and soil can cause corrosion, especially in steel frames.

1. Apply a protective coating to exposed surfaces.
2. Replace any corroded brackets or mounting points.
3. Perform a structural integrity test to detect cracks.

How to Choose the Right Replacement Parts for Your Model H Manure Spreader

When sourcing replacement parts, quality and compatibility are paramount. Follow these guidelines to ensure you get the best components for your spreader.

1. Verify Compatibility with the Model H

Always check the part number and specifications against the **John Deere Model H**attachment catalog. Using a

part designed for a different tractor model can lead to fitment issues or performance loss.

2. Opt for OEM or Certified Parts

Original Equipment Manufacturer (OEM) parts are engineered to match the original design. Certified aftermarket parts often meet or exceed OEM standards. Look for:

- John Deere part numbers.
- Certification logos (e.g., "John Deere Approved").
- Warranty guarantees.

3. Consider Material Quality and Durability

Key materials include:

- High density polyethylene (HDPE) for hoppers.
- Stainless steel or aluminum alloys for blades.
- Corrosion resistant composites for hydraulic hoses.

Higher quality materials reduce maintenance frequency.

4. Evaluate Performance Specifications

When selecting parts such as spreader heads or feed mechanisms, check:

- Spreading width and adjustable range.
- Maximum feed rate (gallons per minute).
- Hydraulic pressure rating.

Matching these specs ensures optimal field coverage.

5. Read Reviews and Consult with Other Farmers

Peer feedback can reveal hidden issues or performance benefits. Join online forums, attend local tractor shows, or ask for recommendations from your equipment dealer.

Where to Buy John Deere Model H Manure Spreader Parts

There are several reliable sources for high quality replacement parts. Below is a list of recommended vendors, each with its own strengths.

1. John Deere Authorized Dealers

These dealers provide OEM parts and often offer on site installation support. Advantages include:

- Guaranteed compatibility.
- Direct access to John Deere's parts database.
- Warranty support.

2. Specialized Agricultural Equipment Retailers

Companies such as **AgriParts** and **FarmSupplyDirect**specialize in manure spreader components and offer competitive pricing. They usually carry a wide range of aftermarket and OEM options.

3. Online Marketplaces

Platforms like **Amazon** and **eBay**can be useful for finding spare parts, especially for older models. Exercise caution:

- Verify seller reputation.
- Check return policies.
- Confirm part compatibility.

4. Direct Manufacturer Websites

Manufacturers such as **Husky**, **Gates**, and **Tractor Parts Inc.**offer a broad selection of parts, often with detailed technical specifications and compatibility charts.

Step by Step Replacement Guide: Swapping a Spreader Blade

Below is a practical example of how to replace a worn spreader blade on a John Deere Model H manure spreader. While each

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- **advanced engineering electromagnetics solution manual edition hardcover by balanis constantine a published by wiley**
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