new holland 273 baler parts diagram

New Holland 273 baler parts diagram is an essential tool for farmers and equipment operators who rely on this machine for hay and straw baling. Understanding the components of the New Holland 273 baler can significantly improve maintenance, repair, and overall efficiency in the field. This article will provide a comprehensive overview of the parts diagram, the function of various components, troubleshooting common issues, and tips for effective maintenance.

Overview of the New Holland 273 Baler

The New Holland 273 baler is a popular model known for its reliability and efficiency in baling hay and straw. This machine is designed to produce high-quality bales that are easy to handle and transport. It features a variety of components, each playing a crucial role in the baling process.

Key Features of the New Holland 273 Baler

- Bale Size: The baler can produce bales of various sizes, which can be adjusted according to the operator's needs.
- Knotting System: It is equipped with a reliable knotting system that ensures bales are tied securely.
- Durable Construction: Built with high-quality materials, the New Holland 273 is designed to withstand the rigors of agricultural use.
- Versatility: Capable of handling different types of forage, making it suitable for various farming operations.

Components of the New Holland 273 Baler Parts Diagram

Understanding the parts diagram of the New Holland 273 baler is crucial for effective maintenance and repair. Below is a breakdown of the major components found in the parts diagram.

1. Frame and Structure

- Main Frame: The backbone of the baler, providing structural support.
- Tongue: The front section that connects the baler to the tractor for towing.
- Wheels: Provide mobility and stability during operation.

2. Feeding Mechanism

- Feed Rollers: These rollers assist in pulling material into the baler.

- Auger: Helps to guide the material into the chamber for baling.
- Pickup Assembly: Captures the cut forage from the ground and feeds it into the baler.

3. Baling Chamber

- Bale Forming Chamber: Where the forage is compacted into bales.
- Plunger: Moves back and forth to compress the material into bales.
- Bale Tensioner: Adjusts the pressure in the chamber to ensure tight bales.

4. Knotting System

- Knotters: Mechanisms that tie the bales securely.
- Twine Rollers: Dispense twine used for tying the bales.
- Knife: Cuts the twine after the bale is formed.

5. Discharge Mechanism

- Bale Ejector: Pushes the completed bales out of the chamber.
- Bale Ramp: Guides the bales to the ground after ejection.

6. Drive System

- PTO Shaft: Connects the baler to the tractor's power take-off for energy transfer.
- Gearbox: Transmits power from the PTO to the various moving parts of the baler.
- Chains and Sprockets: Ensure synchronized movement of components.

Reading the Parts Diagram

The parts diagram of the New Holland 273 baler is typically divided into sections, each representing a specific part of the machine. Here are some tips on how to read the diagram effectively:

1. Identify the Sections: Look for labeled sections that correspond to the major components discussed earlier.
2. Use a Legend: Most diagrams come with a legend that explains the symbols used to represent different parts.
3. Cross-Reference Part Numbers: Each part will have a corresponding part number that can be used for ordering replacements.
4. Understand the Flow: Pay attention to how different components interact with each other, especially in the feeding and knotting systems.

Troubleshooting Common Issues with the New Holland 273 Baler

Even with proper maintenance, issues can arise with the New Holland 273 baler. Here are some common problems along with troubleshooting tips:

1. Baler Not Feeding Material Properly

- Check Feed Rollers: Ensure that the feed rollers are functioning correctly and are free of debris.
- Inspect the Pickup Assembly: Make sure the pickup is not damaged or clogged.
- Adjust the Height: The pickup height may need adjustment to properly gather material.

2. Bales Are Loose or Falling Apart

- Inspect Knotters: Examine the knotters for proper operation and alignment.
- Check Twine Tension: Ensure that the twine is being applied with the correct tension.
- Bale Chamber Pressure: Adjust the bale tensioner to increase pressure in the chamber.

3. PTO Shaft Issues

- Check for Damage: Inspect the PTO shaft for any signs of wear or damage.
- Lubrication: Ensure that the PTO shaft is properly lubricated.
- Alignment: Make sure the PTO shaft is correctly aligned with the tractor's power take-off.

Maintenance Tips for the New Holland 273 Baler

Routine maintenance is vital for keeping the New Holland 273 baler in optimal working condition. Here are some essential maintenance tips:

1. Regular Cleaning: After each use, clean the baler to remove any debris or crop residue.
2. Lubrication: Regularly lubricate moving parts to reduce wear and tear.
3. Inspect Belts and Chains: Check for signs of wear or fraying and replace them as needed.
4. Adjustments: Periodically check and adjust components such as tensioners and rollers to maintain optimal performance.
5. Storage: Store the baler in a dry, sheltered area to protect it from the elements.

Conclusion

Understanding the New Holland 273 baler parts diagram is essential for anyone involved in hay and

straw baling operations. By familiarizing yourself with the various components, troubleshooting common issues, and adhering to maintenance practices, you can ensure that your baler operates efficiently and lasts for many years. Whether you are a seasoned farmer or new to baling, having a solid grasp of your equipment will lead to improved productivity and reduced downtime in the field.

Frequently Asked Questions

What is the purpose of the New Holland 273 baler parts diagram?

The New Holland 273 baler parts diagram serves as a visual reference to identify and locate individual components and parts of the baler for maintenance and repair.

Where can I find a detailed parts diagram for the New Holland 273 baler?

A detailed parts diagram for the New Holland 273 baler can typically be found in the operator's manual, on the official New Holland website, or through authorized dealers and repair shops.

What are some common parts included in the New Holland 273 baler parts diagram?

Common parts included in the New Holland 273 baler parts diagram are the pickup assembly, knotters, bale chamber, drive system components, and various belts and bearings.

How can I use the parts diagram to troubleshoot issues with my New Holland 273 baler?

To troubleshoot issues, you can refer to the parts diagram to identify specific components that may be malfunctioning and use it to guide disassembly and inspection of those parts.

Are there any online resources for viewing the New Holland 273 baler parts diagram?

Yes, there are several online resources, including agricultural equipment forums, parts suppliers' websites, and the New Holland website, where you can view or download the parts diagram.

Can I order parts directly using the New Holland 273 baler parts diagram?

Yes, you can order parts directly using the parts diagram by referencing the part numbers listed and providing them to your local dealer or online parts supplier.

What should I do if I can't find the parts diagram for my New Holland 273 baler?

If you can't find the parts diagram, consider contacting New Holland customer support, visiting a local dealer, or searching online agricultural machinery resources for assistance.

Is there a difference between the parts diagram for different models of New Holland balers?

Yes, there are differences between the parts diagrams for different models of New Holland balers, as each model may have unique components and configurations.

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