

JOHN DEERE 850 BRAKE GUIDE

John Deere 850 Brake Guide

Overview

The John Deere 850 is a popular agricultural tractor that is known for its reliability and longevity. One of the key components of the tractor's braking system is the brake guide.

Function

The brake guide is a mechanical device that helps to transmit the force applied to the brake pedal to the brake shoes. When the brake pedal is depressed, the brake guide moves linearly and pushes against the brake shoes, causing them to engage with the brake drum. This action slows down or stops the tractor.

Construction

The John Deere 850 brake guide is made of cast iron and is designed to withstand high levels of force and wear. It consists of a primary guide and a secondary guide that are connected by a pivot pin. The primary guide is attached to the brake pedal, while the secondary guide is attached to the brake shoes.

Maintenance

To ensure optimal performance of the braking system, it is important to regularly inspect and maintain the brake guide. This includes:

- Checking for any signs of wear or damage
- Lubricating the pivot pin
- Adjusting the brake shoes if necessary

Replacement

If the brake guide becomes worn or damaged, it is necessary to replace it. The replacement process is relatively straightforward and can be performed with basic tools. It is important to use a genuine John Deere brake guide to ensure proper fit and function.

Conclusion

The brake guide is a crucial component of the John Deere 850 braking system. By understanding its function, construction, maintenance, and replacement procedures, you can help to keep your tractor operating safely and efficiently.

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Keywords:

- John Deere 850
- Brake guide
- Brake system

Brake System Operation

The John Deere 850 utilizes a hydraulic brake system to provide reliable and responsive braking power. The system consists of the following components:

- **Brake pedal:** Located on the operator's platform, this pedal actuates the master cylinder when depressed.
- **Master cylinder:** Converts the force applied to the brake pedal into hydraulic pressure.
- **Brake lines:** Carry the hydraulic fluid from the master cylinder to the brakes.
- **Wheel cylinders:** Located at each wheel, these cylinders convert the hydraulic pressure into mechanical force.
- **Brake shoes or pads:** Press against the brake drum or rotor to generate friction and slow the vehicle.

Common Brake Problems and Solutions

1. Brake pedal spongy

- **Cause:** Air in the hydraulic system.
- **Solution:** Bleed the brake system.

2. Brakes dragging

- **Cause:** Worn brake shoes or pads.
- **Solution:** Replace the brake shoes or pads.

3. Brake failure

- **Cause:** Leaking brake lines or damaged master cylinder.
- **Solution:** Inspect and repair or replace the affected components.

Brake Maintenance and Inspection

Regular inspection and maintenance are crucial for ensuring optimal brake performance. Follow these steps:

- **Inspect brake pads or shoes:** Check the thickness of the brake pads or shoes regularly. If they are worn below the minimum thickness, replace them.
- **Bleed brakes:** Remove any air from the brake system by bleeding the brake lines.
- **Check brake fluid level:** Ensure the brake fluid reservoir is filled to the correct level.
- **Inspect brake lines and hoses:** Look for any signs of damage or leaks. If found, replace the affected lines or hoses.

Caution: Always follow proper safety procedures when working on the brake system. Refer to the John Deere 850 operator's manual for detailed instructions and precautions.

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Obtaining the Document

The John Deere 850 brake guide can be obtained from the following sources:

- **Dealer:** Contact your local John Deere dealer to request a copy of the guide.
- **Online:** Visit the official John Deere website and search for "850 brake guide" to download the PDF document.

- **Third-Party Websites:** Various third-party websites offer free or paid downloads of the 850 brake guide. However, ensure the website is reputable before downloading any files.

Why You should Read About the John Deere 850 Brake Guide

Understand Proper Brake Maintenance

- Learn the importance of maintaining brakes for optimal performance and safety.

Ensure Reliable Braking

- Gain insights into the specific features and requirements of the John Deere 850 brakes to ensure reliable stopping power.

Prevent Costly Repairs

- Early detection and proper maintenance can prevent costly repairs down the road, saving you time and money.

Maximize Tractor Safety

- Brakes play a critical role in tractor safety. This guide helps you understand and maintain them properly to minimize risks.

Extend Tractor Lifespan

- Regular brake maintenance contributes to the overall lifespan of your John Deere 850 tractor, ensuring its longevity and productivity.

Gain a Competitive Advantage

- A well-maintained tractor with reliable brakes can improve productivity and enhance your competitiveness in the field.

Stay Informed about Industry Standards

- This guide provides you with the latest information on brake maintenance guidelines for the John Deere 850, keeping you up-to-date with industry practices.

Protect Your Investment

- By understanding and maintaining the brakes of your John Deere 850, you protect your valuable investment and minimize the likelihood of costly downtime.