

bobcat 853 repair manual

Bobcat 853 Repair Manual

The Bobcat 853 is a versatile skid-steer loader that has gained popularity for its powerful performance in various construction and landscaping tasks. Like any heavy machinery, regular maintenance and occasional repairs are essential to keep the Bobcat 853 running efficiently. The Bobcat 853 repair manual serves as an invaluable resource for operators and technicians alike, providing detailed instructions for troubleshooting, repair, and maintenance. This article will delve into the key components of the Bobcat 853 repair manual, including common issues, maintenance practices, and step-by-step repair instructions.

Understanding the Bobcat 853

The Bobcat 853 is a compact skid-steer loader equipped with a robust hydraulic system and a powerful engine. It is particularly noted for its maneuverability and strength, making it an excellent choice for working in tight spaces. The machine is designed to handle a variety of attachments, such as buckets, forks, and grapples, increasing its utility on job sites.

Key Specifications

- Engine Type: Diesel
- Horsepower: Approximately 50 HP
- Operating Weight: Around 3,000 lbs
- Rated Operating Capacity: 1,200 lbs
- Lift Height: 8.5 ft
- Hydraulic Flow: 18.5 GPM

These specifications highlight the Bobcat 853's capabilities and give users an understanding of what to expect from the machine.

Importance of the Repair Manual

The Bobcat 853 repair manual is crucial for several reasons:

1. Comprehensive Guidelines: It contains detailed instructions on how to perform repairs and maintenance, covering everything from basic upkeep to complex repairs.
2. Troubleshooting: The manual offers troubleshooting tips for common issues, helping users quickly identify and resolve problems.
3. Safety Information: It provides essential safety guidelines to ensure that operators handle the machinery without risking injury.
4. Parts Identification: The manual includes diagrams and part numbers, making it easier to order replacement parts.

Common Issues and Troubleshooting

Like any piece of machinery, the Bobcat 853 can encounter various issues over time. Here are some common problems and their possible solutions:

1. Engine Won't Start

- Possible Causes:

- Dead battery
- Faulty ignition switch
- Clogged fuel filter

- Troubleshooting Steps:

1. Check the battery connections and charge the battery if necessary.
2. Inspect the ignition switch for any signs of damage.
3. Replace the fuel filter if it appears clogged.

2. Hydraulic System Failure

- Possible Causes:

- Low hydraulic fluid levels
- Leaking hoses or fittings
- Contaminated hydraulic fluid

- Troubleshooting Steps:

1. Check the hydraulic fluid reservoir and refill if necessary.
2. Inspect hoses and fittings for leaks and replace any damaged components.
3. Change the hydraulic fluid if it appears contaminated.

3. Unusual Noises

- Possible Causes:

- Worn bearings
- Loose or damaged belts
- Faulty hydraulic pump

- Troubleshooting Steps:

1. Listen for the source of the noise and inspect accordingly.
2. Tighten or replace any loose or damaged belts.
3. Check the hydraulic pump for signs of wear and replace if necessary.

Maintenance Practices

Regular maintenance is key to prolonging the life of the Bobcat 853. Users should adhere to the following maintenance schedule:

Daily Maintenance

- Check hydraulic fluid levels
- Inspect the engine oil level
- Clean the air filter
- Examine tires for wear and proper inflation

Weekly Maintenance

- Grease all pivot points and joints
- Inspect the battery terminals for corrosion
- Clean the exterior to prevent rust and deterioration

Monthly Maintenance

- Change the engine oil and filter
- Replace the fuel filter
- Inspect the hydraulic system for leaks

Step-by-Step Repair Instructions

For those who are prepared to tackle repairs on their own, the Bobcat 853 repair manual provides detailed step-by-step instructions. Below are general guidelines for some common repairs:

Replacing the Hydraulic Filter

1. Preparation:
 - Park the Bobcat on a level surface and turn off the engine.
 - Allow the hydraulic system to cool before proceeding.
2. Locate the Hydraulic Filter:
 - Refer to the manual for the exact location of the hydraulic filter.
3. Remove the Old Filter:
 - Use a filter wrench to unscrew the old filter.

- Be prepared for some hydraulic fluid to spill; have a container ready to catch it.
4. Install the New Filter:
 - Apply a thin layer of hydraulic fluid to the rubber gasket of the new filter.
 - Screw the new filter in place by hand until snug, then tighten it slightly with the wrench.
 5. Check Fluid Levels:
 - Refill the hydraulic fluid reservoir as needed.
 6. Test the System:
 - Start the engine and operate the hydraulic system to ensure it functions properly.

Replacing the Engine Oil and Filter

1. Preparation:
 - Park the machine on a flat surface and turn off the engine.
2. Drain the Old Oil:
 - Locate the oil drain plug and remove it to let the old oil drain into a container.
3. Remove the Old Oil Filter:
 - Use an oil filter wrench to remove the old oil filter.
4. Install the New Oil Filter:
 - Apply a small amount of new oil to the rubber gasket of the new filter.
 - Screw the new filter in place, ensuring it is tight.
5. Add New Oil:
 - Replace the drain plug and refill the engine with the recommended type and amount of oil.
6. Check the Oil Level:
 - Start the engine and let it run for a few minutes, then turn it off and check the oil level using the dipstick.

Conclusion

The Bobcat 853 is a robust machine that, with proper care and maintenance, can serve its operators for years. The Bobcat 853 repair manual is an essential tool for anyone working on this equipment. By following the troubleshooting tips, maintenance schedules, and step-by-step repair instructions outlined in the manual, operators can ensure that their Bobcat 853 remains in peak working condition. Regular attention to both minor and major repairs will minimize downtime and enhance productivity on the job site. Whether you are a seasoned technician or a first-time operator, having access to the repair manual will empower you to take control of your machine's maintenance and repairs effectively.

Frequently Asked Questions

What is the purpose of the Bobcat 853 repair manual?

The Bobcat 853 repair manual provides detailed instructions for maintenance, troubleshooting, and repair procedures for the Bobcat 853 skid-steer loader.

Where can I find a Bobcat 853 repair manual?

You can find a Bobcat 853 repair manual through authorized Bobcat dealerships, online marketplaces, or by downloading it from the official Bobcat website.

What types of repairs are covered in the Bobcat 853 repair manual?

The manual covers repairs related to the engine, hydraulic system, electrical system, drivetrain, and general maintenance procedures.

Is the Bobcat 853 repair manual available in digital format?

Yes, the Bobcat 853 repair manual is often available in digital format, which can be accessed as a PDF for convenience.

How can I troubleshoot common issues using the Bobcat 853 repair manual?

The manual includes a troubleshooting section that provides step-by-step diagnostic procedures for common issues, helping users identify and resolve problems effectively.

Are replacement parts listed in the Bobcat 853 repair manual?

Yes, the repair manual typically includes part numbers and specifications for replacement parts needed for various repairs.

Can I use the Bobcat 853 repair manual for models other than the 853?

While the manual is specific to the Bobcat 853, some information may be applicable to similar models, but it's best to use the correct manual for each specific model.

What tools do I need to follow the Bobcat 853 repair manual?

Basic hand tools, specialized tools mentioned in the manual, and safety equipment are typically required to perform repairs as outlined in the Bobcat 853 repair manual.

How often should I refer to the Bobcat 853 repair manual for maintenance?

It's advisable to refer to the manual regularly, especially before and after significant operations, to ensure proper maintenance and address any emerging issues.

Can I get support if I have questions while using the Bobcat 853 repair manual?

Yes, you can contact Bobcat customer support or visit online forums and communities for assistance with any questions while using the repair manual.

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