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Bobcat 873

Bobcat 873 Workshop Repair Manual

For Serial Number Ranges: 514115001 & Above, 514213001 & Above

INTRODUCTION

This workshop repair manual provides detailed instructions for the maintenance, service, and repair of the Bobcat 873 skid-steer loader. It is designed for technicians and owners who require comprehensive information to perform various tasks, ensuring the machine operates efficiently and safely. Please read this manual thoroughly before attempting any service procedures.

Important: Always prioritize safety. Wear appropriate personal protective equipment (PPE) and follow all safety warnings and precautions outlined in this manual and on the machine itself.

SAFETY INFORMATION

Before operating or servicing the Bobcat 873, it is crucial to understand and adhere to all safety guidelines. Failure to do so can result in serious injury or death.

- Always shut off the engine, engage the parking brake, and remove the key before performing any maintenance or inspection.
- Ensure the machine is on a level surface and attachments are lowered to the ground.
- Use proper lifting equipment when handling heavy components.
- Never work under a raised machine or attachment without proper support.
- Keep hands, feet, and clothing away from moving parts.
- Refer to the machine's safety decals for additional warnings.

SETUP AND PREPARATION

Proper preparation is essential before beginning any repair or maintenance task.

Required Tools and Equipment

Ensure you have all necessary tools, including:

- Standard metric and imperial wrench sets
- Socket sets
- Torque wrench
- Hydraulic pressure gauge
- Safety stands or blocks
- Personal Protective Equipment (PPE): safety glasses, gloves, hearing protection

Machine Preparation

1. Park the Bobcat 873 on a firm, level surface.
2. Lower the lift arms and attachment to the ground.
3. Engage the parking brake.
4. Shut off the engine and remove the key.
5. Allow hot components to cool down before touching.
6. Clean the work area around the component to be serviced to prevent contamination.

OPERATING PROCEDURES (BRIEF OVERVIEW FOR SERVICE)

While this is a repair manual, a basic understanding of operation is helpful for diagnostics and testing after repairs. For detailed operating instructions, refer to the Bobcat 873 Operator's Manual.

Starting the Engine

1. Ensure all controls are in neutral.
2. Insert the key and turn to the "ON" position.
3. Wait for the pre-heat indicator (if applicable) to turn off.
4. Turn the key to the "START" position. Release when the engine starts.

Stopping the Engine

1. Lower all attachments to the ground.
2. Engage the parking brake.
3. Turn the key to the "OFF" position.

MAINTENANCE SCHEDULE AND PROCEDURES

Regular maintenance is critical for the longevity and performance of your Bobcat 873. Follow the recommended service intervals.

Daily / Every 10 Hours

- Check engine oil level.
- Check hydraulic fluid level.
- Inspect tires for damage and proper inflation.
- Clean radiator and oil cooler fins.
- Check safety interlocks and seat bar.

Every 50 Hours / Weekly

- Lubricate all grease points.
- Check battery electrolyte level and terminals.
- Inspect drive belts for tension and wear.

Every 250 Hours / Monthly

- Change engine oil and filter.
- Replace fuel filter.
- Inspect air filter.
- Check hydraulic hoses and lines for leaks or damage.

Every 500 Hours / 6 Months

- Change hydraulic fluid and filter.
- Replace primary and secondary air filters.
- Check and adjust valve clearance.

Every 1000 Hours / Annually

- Change axle oil.
- Inspect and clean fuel tank.
- Replace engine coolant.

TROUBLESHOOTING GUIDE

This section provides a basic guide to diagnose common issues. For detailed diagnostic procedures, refer to the specific sections of this manual.

| Problem | Possible Cause | Solution |
|-------------------------|---|---|
| Engine will not start | Low battery charge, fuel system issue, safety interlock engaged | Check battery, check fuel level and filter, ensure seat bar and controls are correct. |
| Loss of hydraulic power | Low hydraulic fluid, clogged filter, pump malfunction | Check fluid level, replace hydraulic filter, inspect pump. |
| Overheating engine | Low coolant, clogged radiator, faulty thermostat | Check coolant level, clean radiator, test thermostat. |

SPECIFICATIONS

Key technical specifications for the Bobcat 873 skid-steer loader.

| Feature | Detail |
|------------------------------|--------------------------------------|
| Model | Bobcat 873 Skid-Steer Loader |
| Serial Number Ranges Covered | 514115001 & Above, 514213001 & Above |

| Feature | Detail |
|---------------------------|--|
| Engine Type | (Refer to specific engine section in manual for details) |
| Operating Weight | (Refer to specific model variant in manual) |
| Rated Operating Capacity | (Refer to specific model variant in manual) |
| Hydraulic System Pressure | (Refer to specific hydraulic section in manual) |

DIAGRAMS AND ILLUSTRATIONS

Visual aids are provided throughout the full manual to assist with identification of parts and assembly procedures. An example image is shown below.



Figure 1: Example cover image for the Bobcat 873 Workshop Repair Manual. This image represents the comprehensive nature of the manual's content, providing a visual reference for the document itself.

WARRANTY AND SUPPORT

This manual is a digital product. For information regarding the terms of use or any support related to the manual's content, please refer to the seller's information or the original manufacturer's official website. For technical support related to the Bobcat 873 machine itself, please contact an authorized Bobcat dealer or visit the official Bobcat website for service locations and contact information.

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