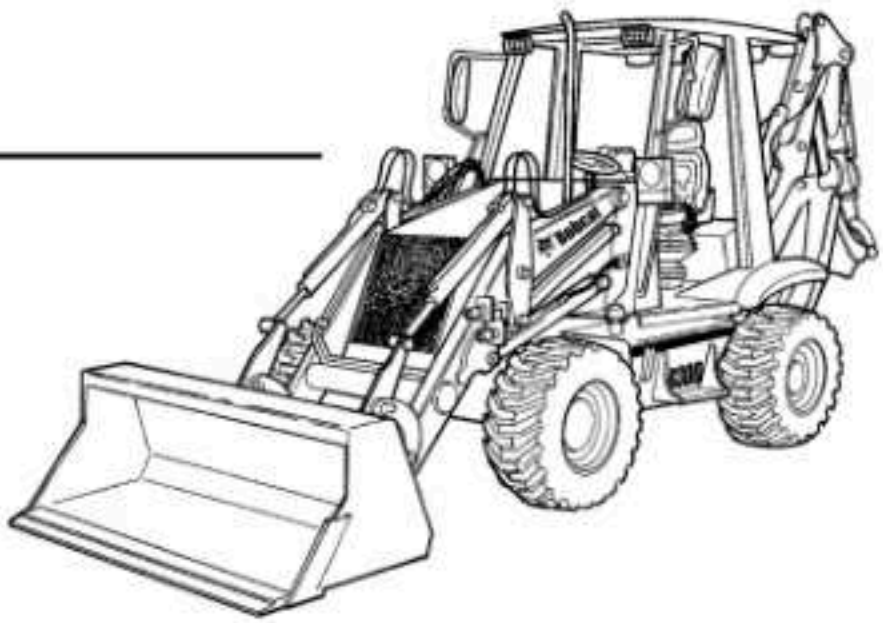
B300
B-Series

Bobcat®

Operation & Maintenance Manual

S/N 573111001 & Above



An Ingersoll-Rand business

Printed in U.S.A.

6903386 (11-04)

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CONTENTS

FOREWORD III

SAFETY XI

OPERATING INSTRUCTIONS OI-1

PREVENTIVE MAINTENANCE 1

MACHINE SIGN TRANSLATIONS 1

SPECIFICATIONS. SPEC-1

REFERENCE INFORMATION

Write the correct information for YOUR Bobcat Loader Backhoe in the spaces below. Always use these numbers when referring to your Bobcat Loader Backhoe.

CALIFORNIA
PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

Loader Backhoe Serial Number _____

_____

Engine Serial Number _____

_____

NOTES:

_____

_____

_____

YOUR Bobcat® DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company

P.O. Box 128
Gwinner, ND 58054-0128

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FOREWORD

This Operation & Maintenance Manual was written to give the owner/operator instructions on the safe operation and maintenance of the Bobcat Loader Backhoe. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR LOADER BACKHOE. If you have any questions, see your Bobcat dealer.

This manual may illustrate loader backhoes with additional options and accessories not installed on your loader backhoe.

LOADER BACKHOE IDENTIFICATION VIII

LOADER BACKHOE SERIAL NUMBER. VII

DELIVERY REPORT. VII

ENGINE SERIAL NUMBER VII

FEATURES, OPTIONS, ACCESSORIES AND ATTACHMENTS . . . IX

MOTOR OIL V

REGULAR MAINTENANCE ITEMS V

SERIAL NUMBER LOCATION VII

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BACKHOE HYDRAULIC CONTROLS (CONT'D)

Backhoe Control Levers (Cont'd)

LEVER NO. 2 **[Figure OI-33]** - Arm and Bucket

To move the arm out, push the lever forward (Item 1) **[Figure OI-33]**.

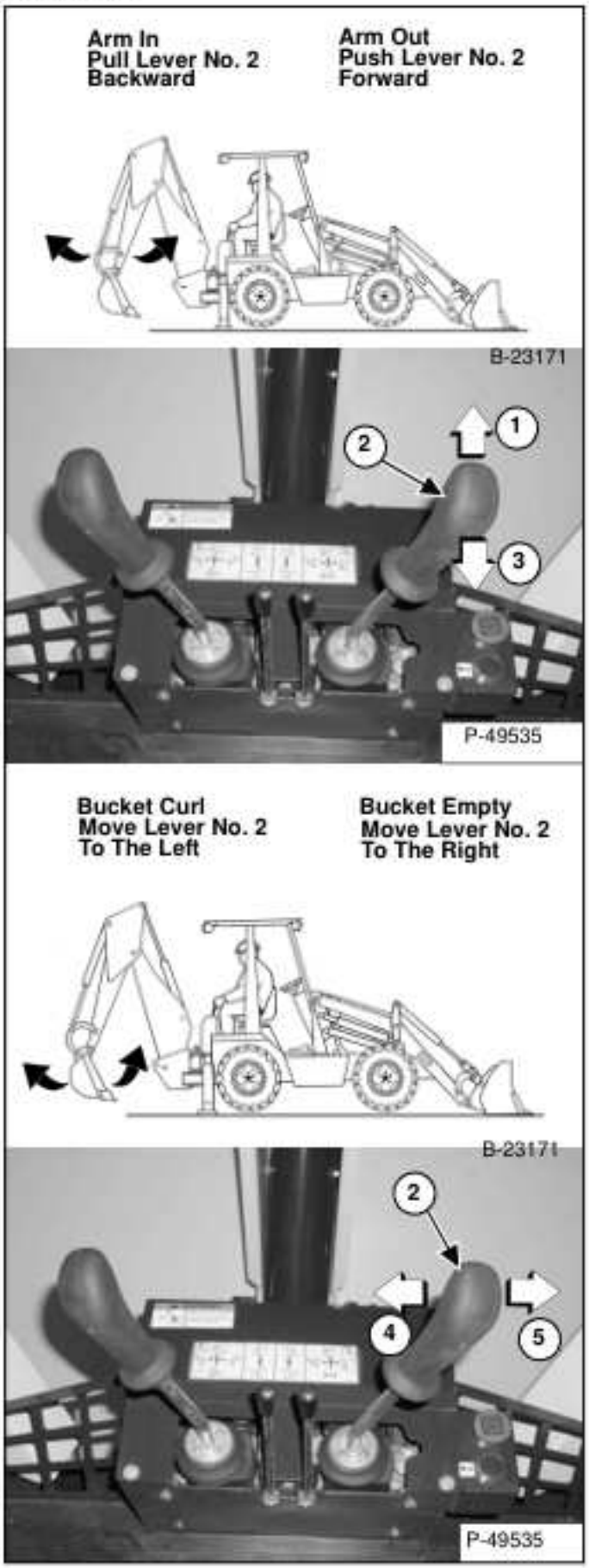
To move the arm in, pull the lever backward (Item 3) **[Figure OI-33]**.

To curl the bucket (fill the bucket), move the lever to the left (Item 4) **[Figure OI-33]**.

To empty the bucket, move the lever to the right (Item 5) **[Figure OI-33]**.

NOTE: If you release the arm and bucket control lever, the lever will return to the neutral position.

Figure OI-33

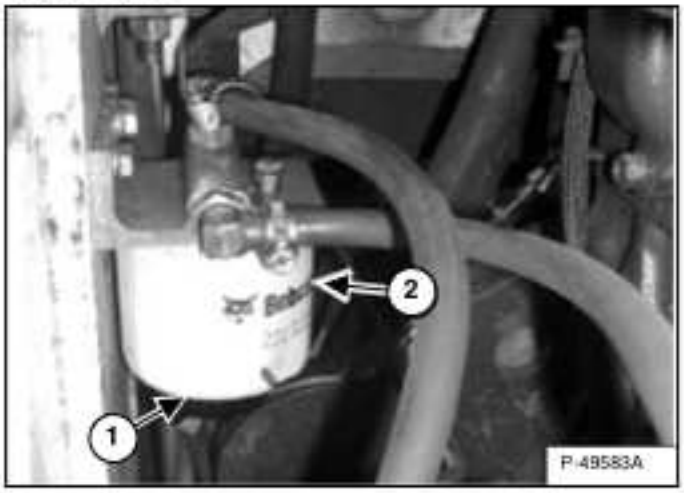


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Fuel Filter (Cont'd)

Removing Water

Figure PM-23



Loosen the drain (Item 1) **[Figure PM-23]** at the bottom of the filter element to remove water from the filter.

Replacing The Spin On Element

Remove the filter element (Item 2) **[Figure PM-23]**.

Clean the area around the filter housing. Put clean oil on the seal of the new filter element. Install the fuel filter, and hand tighten.

Remove the air from the fuel system. (See Removing Air From The Fuel System on Page PM-16.)

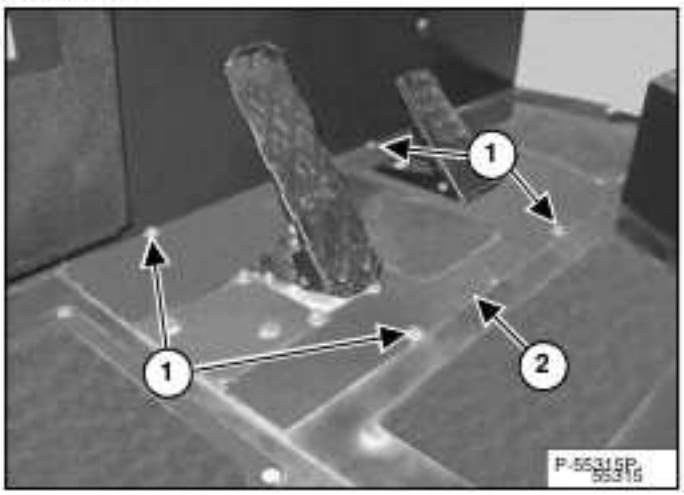
⚠ WARNING

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire which can result in injury or death.

W-2103-1285

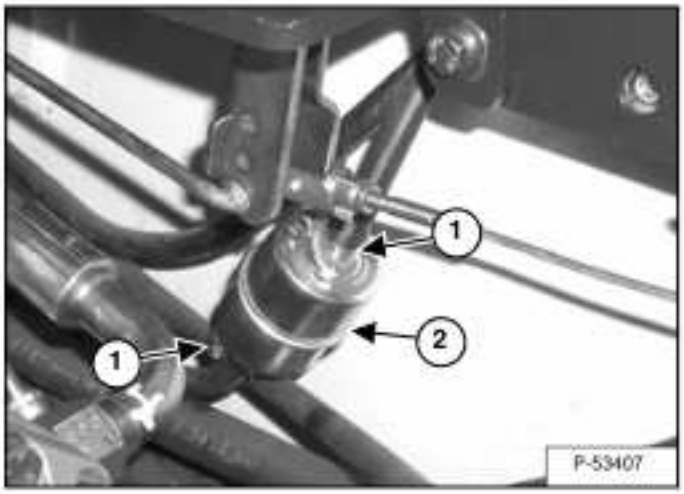
Replacing The In-line Fuel Filter

Figure PM-24



Remove the four bolts (Item 1) and remove the front floor plate (Item 2) **[Figure PM-24]**.

Figure PM-25



Loosen the two hose clamps (Item 1) and remove the in-line fuel filter (Item 2) **[Figure PM-25]**.

Install a new in-line fuel filter.

Tighten the two hose clamps.

Reinstall the front floor panel.

Remove the air from the fuel system (See Removing Air From The Fuel System on Page PM-16.)

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LOADER BACKHOE SPECIFICATIONS (CONT'D)

Loader Performance

*Loader Rated Operating Capacity (Per ISO 14397)	3150 lbs (1429 Kg)
Loader Tipping Load (ISO)	6300 lbs (2858 Kg)
Operating Weight	9260 lbs. (4200 Kg)
Travel Speed	10.9 MPH (17.5 Km/H)
Bucket Capacity (Loader)	17.7 ft^3 (0.5 m^3)
Loader Breakout	8430 lbs. (3825 kg)

*Determined with equipment shown (backhoe in the center transport position).

Backhoe Performance

Std. Backhoe Bucket Width	16 in. (400 mm)
Diggingforce Bucket Dipper	 6821 lbs. (3094 kg) 4627 lbs. (2099 kg)

Controls

Hydraulics (Loader and Backhoe)	Hand Operated Levers
Auxiliary Hydraulics	Hand Operated Lever for Loader, Button Activated for Backhoe
Parking Brake	Button Activated Spring Applied Pressure Release (SAPR)
Travel Direction Control	Hand Operated Lever (FNR)

Engine

Make/Model	Kubota/V2203-MDI
Fuel/Cooling	Diesel/Liquid (Antifreeze Mixture)
Horsepower (SAE Net)	48.0 HP (36 Kw) @ 3000 RPM
Displacement	134.07 ci (2,197 L)
Number Of Cylinders	Four
Lubrication	Pressure System with Filter
Air Cleaner	Dry replaceable cartridge
Equipped with spark arrestor exhaust system	

Hydraulic System

Hydraulic Pump	Gear Driven
Hydraulic Cooling	Cooler (part of radiator)

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Safe Operation Is The Operator's Responsibility

Safety Alert Symbol

This symbol with a warning statement means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

WARNING

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W-2001-1285

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284

WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

The Bobcat Loader Backhoe and attachment must be in good operating condition before use.

Check all of the items on the Service Schedule Decal under the 8-10 hour column or as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat include the Delivery Report, Operation & Maintenance Manual, Operator's Handbook, Safety Manual and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements or use of a Slow Moving Vehicle (SMV) emblem. Regulations may identify a hazard such as a utility line.

Have Training with Actual Operation

- Operator training must consist of a demonstration and verbal instruction. This training is given by your Bobcat dealer before the product is delivered.
- The new operator must start in an area without bystanders and use all the controls until he or she can operate the machine and attachment safely under all conditions of the work area. Always fasten seat belt before operating.
- Operator Training Courses are available from your Bobcat dealer in English and Spanish. They provide information for safe and efficient operation. Safety videos are also available.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Operating Capacity (R.O.C.) of the loader or the Rated Lift Capacity of the backhoe. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of load if handling dense material.
- The operator must know any prohibited uses or work areas, for example, he or she needs to know about excessive slopes.
- Know the location of any underground lines. Call local utilities or the TOLL FREE phone number found in the **Before Operation** Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses or hearing protection are required for some work. See your Bobcat dealer about available Safety Equipment.

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