B100

A Series

Bobcat®

Operation & Maintenance Manual

S/N 570011001 & Above
S/N 570111001 & Above



An Ingersoll Rand business

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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 58040-0128

Bobcat Company Europe
J. Huysmanslaan 59
B-1651 LOT
Belgium

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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.

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LOADER BACKHOE IDENTIFICATION VIII

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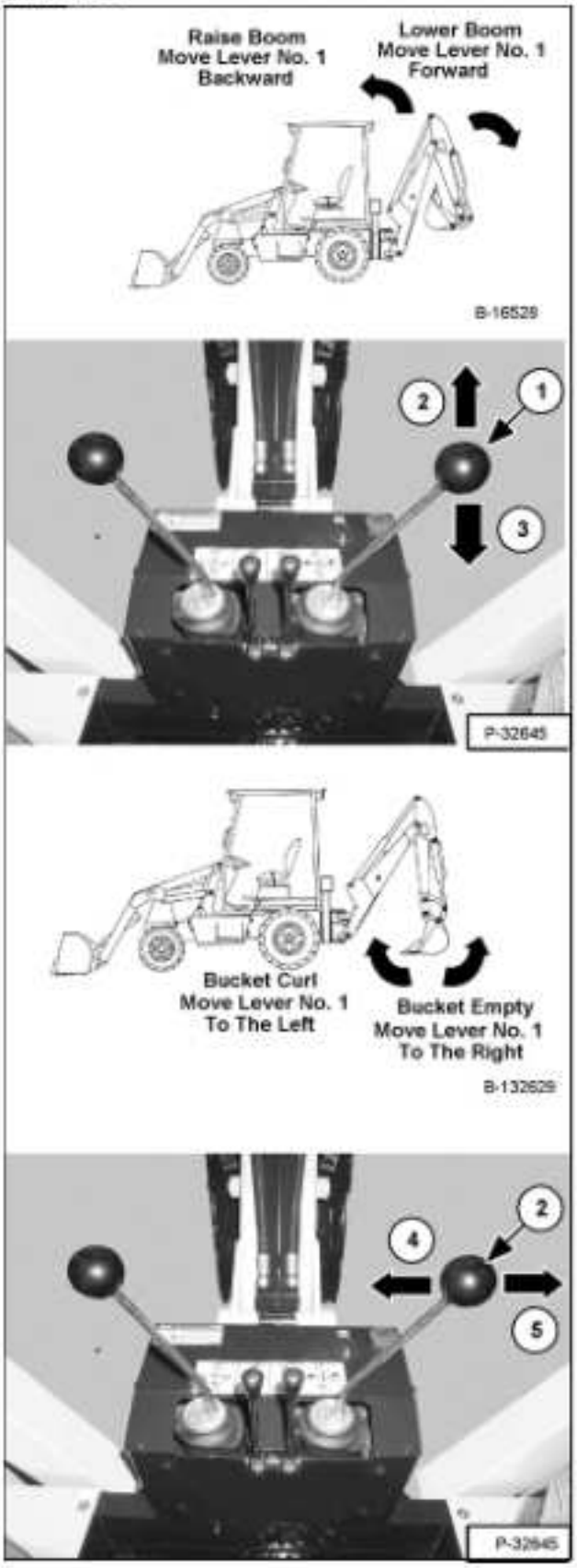
SERIAL NUMBER LOCATIONS VII

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HYDRAULIC CONTROLS (REAR) (CONT'D)

Backhoe Control Levers (ISO Control Pattern)

Figure OI-20



Learn the function of the control levers before you start the engine to begin operation **[Figure OI-20]**.

LEVER NO. 1 **[Figure OI-20]** - Boom and Bucket **(ISO)**. To lower the boom, push the lever forward (Item 2) **[Figure OI-20]**.

To raise the boom, pull the lever backward (Item 3) **[Figure OI-20]**.

NOTE: If you release the boom control lever, the lever will return to the neutral position.

To curl the bucket (fill the bucket), move the lever to the left (Item 4) **[Figure OI-20]**.

To empty the bucket, move the lever to the right (Item 5) **[Figure OI-20]**.

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LUBRICATING THE LOADER BACKHOE

Procedure

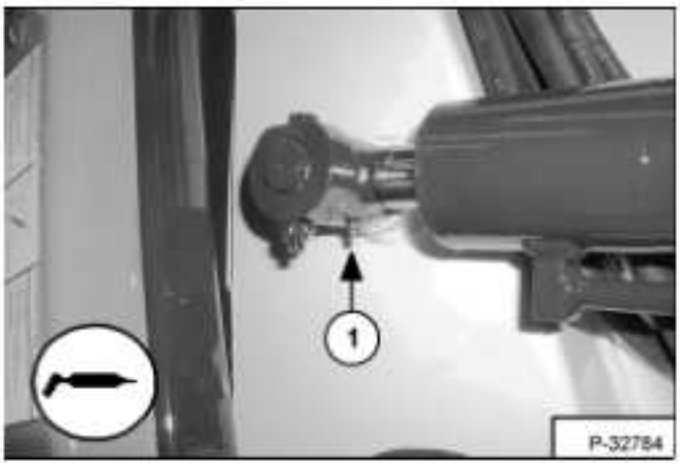
Lubricate the loader as specified in the SERVICE SCHEDULE for the best performance of the loader.(See SERVICE SCHEDULE on page PM-5.)

Record the operating hours each time you lubricate the loader backhoe.

Always use a good quality lithium based multi-purpose grease when you lubricate the loader. Apply the lubricant until extra grease shows.

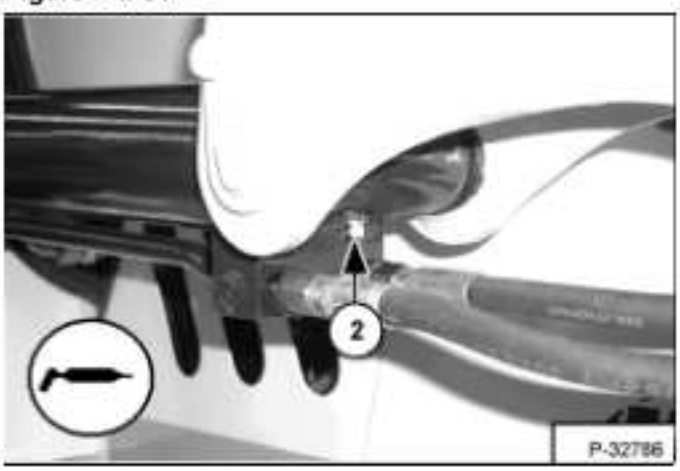
Lubricate the following locations on the loader backhoe.

Figure PM-50



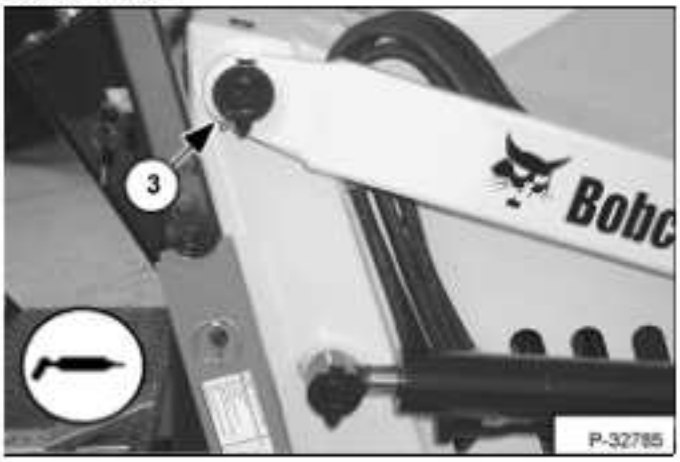
1. Rod End Lift Cylinder (Both sides) **[Figure PM-50]**

Figure PM-51



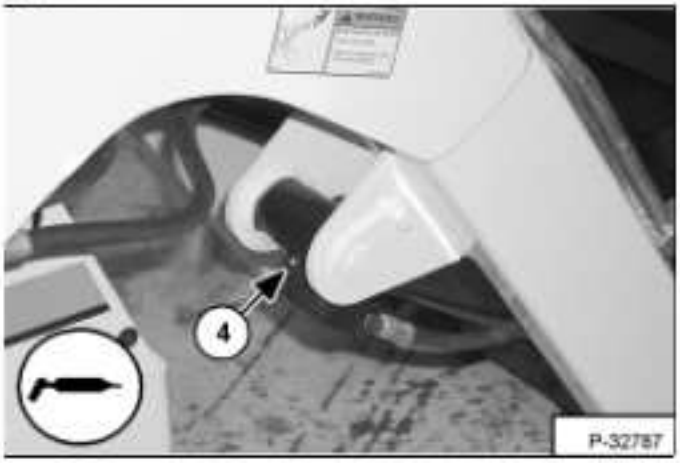
2. Base End Lift Cylinder (Both sides) **[Figure PM-51]**

Figure PM-52



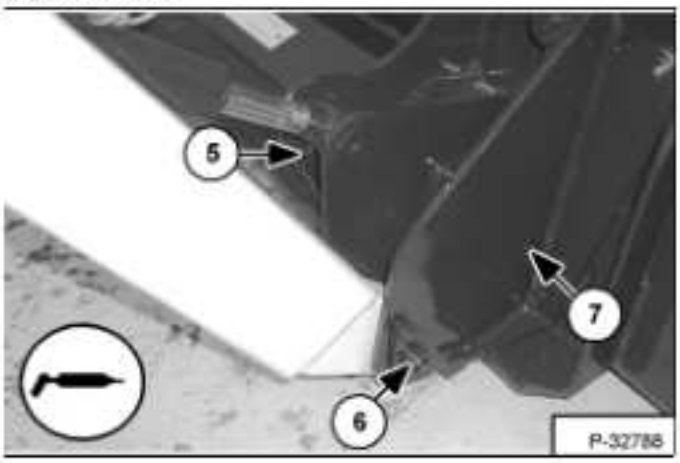
3. Lift Arm Pivot Pin (Both sides) **[Figure PM-52]**

Figure PM-53



4. Base End Tilt Cylinder (Both sides) **[Figure PM-53]**

Figure PM-54

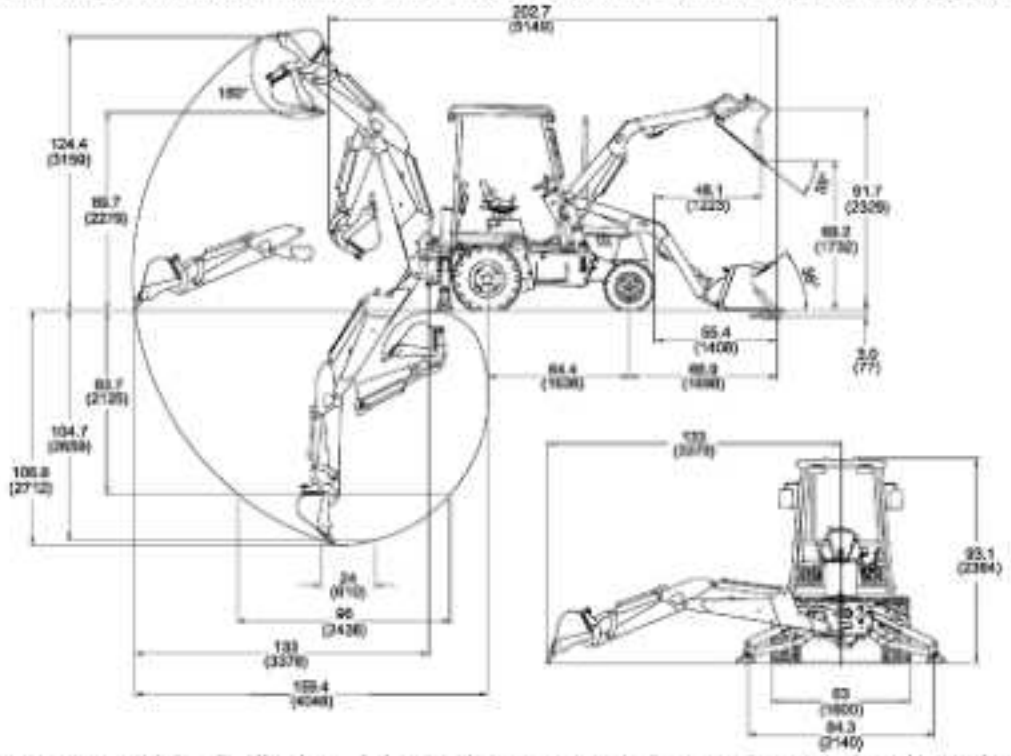


5. Rod End Tilt Cylinder (Both sides) **[Figure PM-54]**
6. Bob-Tach Pivot Pin (Both sides) **[Figure PM-54]**
7. Bob-Tach wedge (both sides) **[Figure PM-54]**.

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LOADER BACKHOE SPECIFICATIONS

- Dimensions are given for loader backhoe equipped with standard dirt bucket and may vary with other bucket types. All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specifications conform to SAE or ISO standards and are subject to change without notice.



Changes of structure or weight distribution of the loader can cause changes in control and steering response and can cause failure of the loader parts.

Performance

*Loader Rated Operating Capacity (ISO)	1600 lb. (726 kg)
Loader Tipping Load (ISO)	3200 lb. (1452 kg)
Operating Weight	4166 lb. (1890 kg)
Travel Speed	6.0 mph (0-10 Km/h)
Bucket Capacity	11.3 ft³ (0.32 m³)
Loader breakout	3600 lb. (1633 kg)
Std. bucket width	16 in. (400 mm)
Bucket	3726 lb. (1690 kg)
Dipper	2740 lb. (1243 kg)

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

Engine

Make/Model	KUBOTA/D1105
Fuel/Cooling	Diesel/Liquid (Antifreeze Mixture)
Horsepower (SAE Net)	25.0 HP (18.6 kW) @3000 RPM
Number of Cylinders	Three
Lubrication	Pressure system W/Filter
Air Cleaner	Dry replaceable cartridge w/safety element

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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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