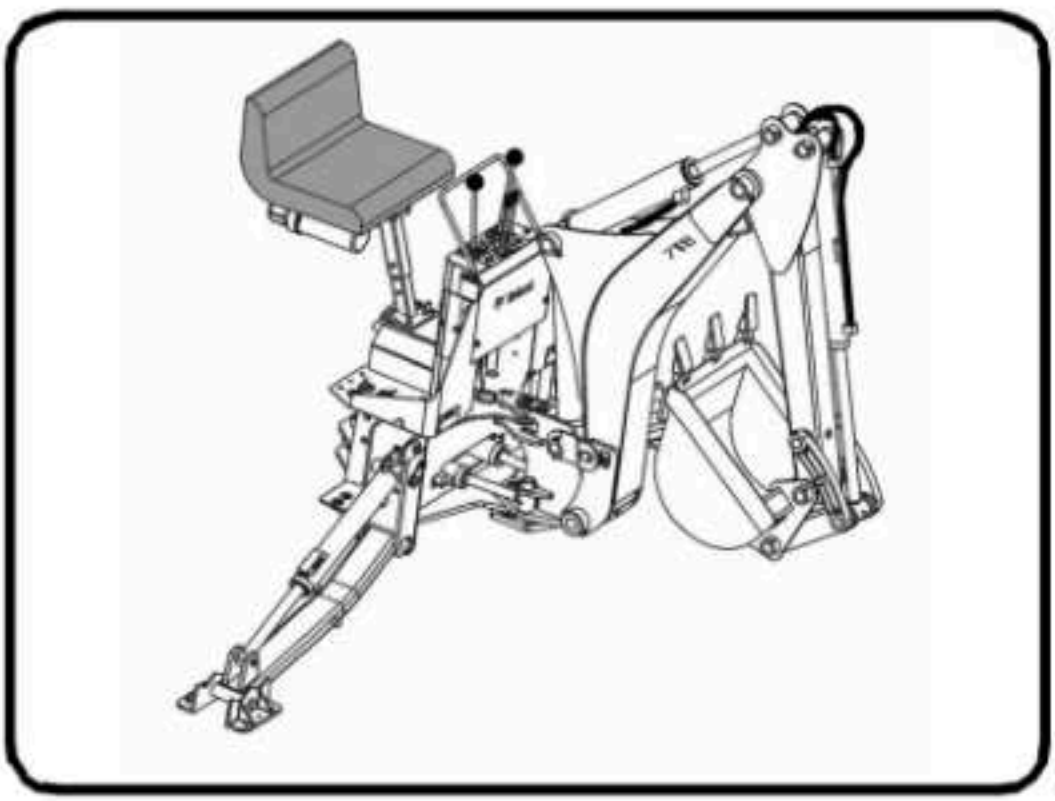
Bobcat®

Operation & Maintenance Manual
7TB & 8TB Backhoe

(7TB Backhoe) S/N AE3H00101 & Above
(8TB Backhoe) S/N AE3L00101 & Above



6987138 (10-08) Revised (11-08) (1)

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CONTENTS

FOREWORD III

SAFETY & TRAINING RESOURCES XI

OPERATING INSTRUCTIONS OI-1

PREVENTIVE MAINTENANCE PM-1

MACHINE SIGN TRANSLATIONS MST-1

SPECIFICATIONS SPEC-1

WARRANTY WARRANTY-1

INSTALLATION INSTRUCTIONS II-1

ALPHABETICAL INDEX INDEX-1

REFERENCE INFORMATION

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

Backhoe Serial Number _____

_____

_____

NOTES:

_____

_____

YOUR BOBCAT® DEALER:

ADDRESS:

_____

PHONE:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128

Bobcat Company Europe
Dréve Richelle 167
B-1410 WATERLOO
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 backhoe. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR backhoe. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

DELIVERY REPORT. VII

FEATURES AND ACCESSORIES X
Buckets Available. X
Options And Accessories. X
Standard Items. X

IDENTIFICATION AND MACHINE SIGNS (DECALS) VIII

MANUAL STORAGE LOCATION VII

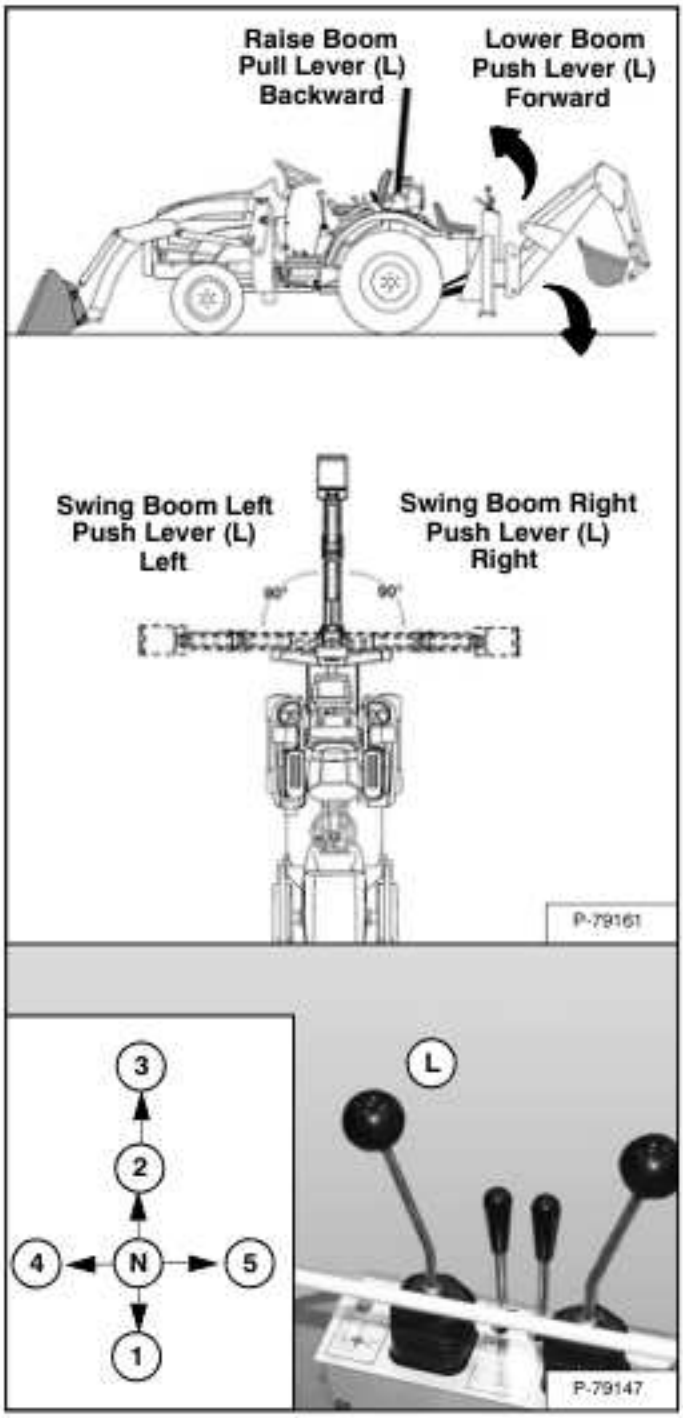
SERIAL NUMBER LOCATION VII
Attachment Serial Number. VII

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Operation With The Compact Tractor

Boom / Swing Operation

Figure OI-27



Learn the function of the control levers before you start the engine to begin operation **[Figure OI-27]**.

⚠ WARNING

AVOID CRUSHING HAZARD

- **Do not lean over controls.**
- **Engage and disengage the boom and stabilizer transport locks and the swing lock pin with the engine off.**
- **Do not operate the backhoe controls from outside the operator's area.**

W-2694-0808

LEFT LEVER (L) **[Figure OI-27]** - Boom and Swing.

Boom lever positions:

N - Neutral.

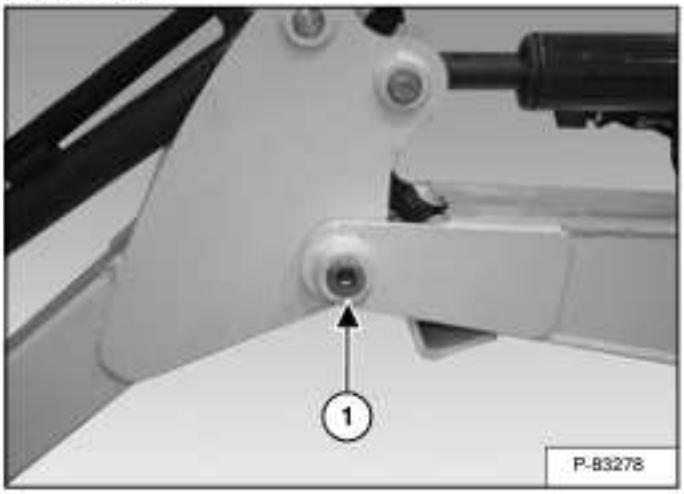
1. Raise Boom - Pull lever backward.
2. Lower Boom - Push lever forward
3. Float Position - Push lever farther forward. In the detent (float) position there is no hydraulic force on the boom.
4. Swing Left - Move lever to the left.
5. Swing Right - Move lever to the right.

NOTE: When you release the lever, it will return to the neutral position (N) unless it is in the detent (float) position.

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Lubrication Locations (Cont'd)

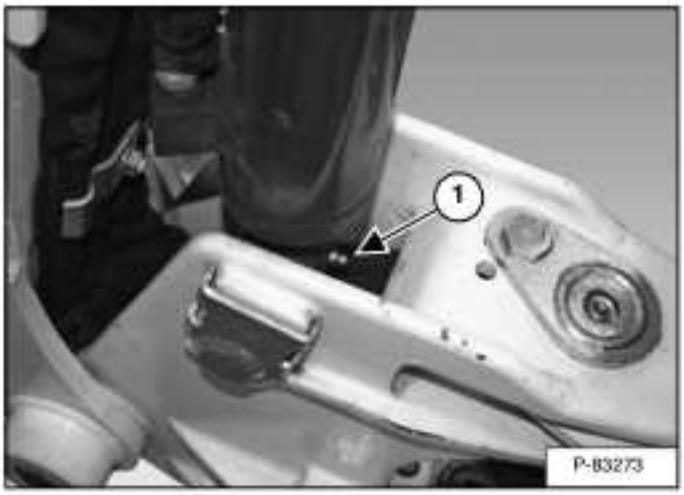
Figure PM-4



Lubricate the following locations **[Figure PM-4]**.

1. Arm Pivot Pin.

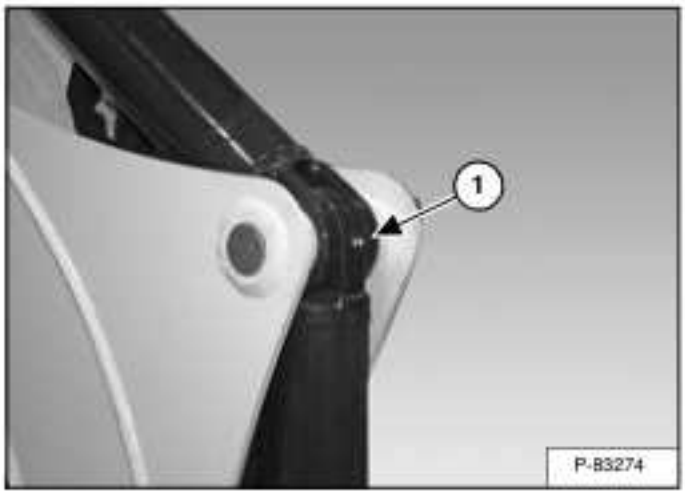
Figure PM-5



Lubricate the following locations **[Figure PM-5]**.

1. Boom Cylinder Rod End.

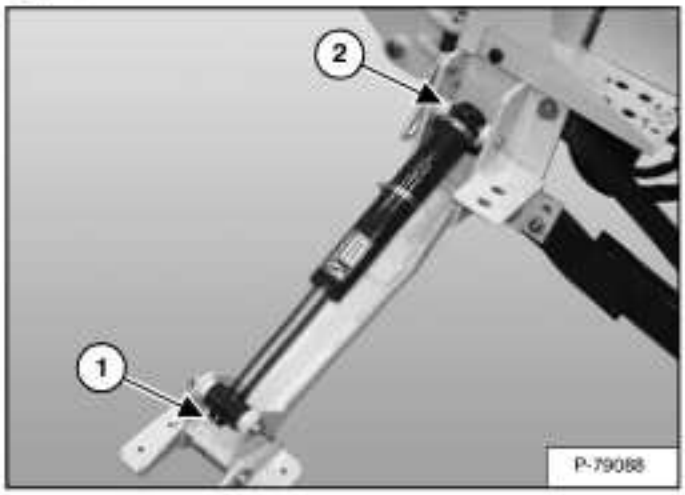
Figure PM-6



Lubricate the following locations **[Figure PM-6]**.

1. Arm Cylinder Base End & Boom Cylinder Base End.

Figure PM-7



Lubricate the following locations **[Figure PM-7]**.

1. Stabilizer Cylinder Rod End.
2. Stabilizer Cylinder Base End.

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(8TB BACKHOE) ATTACHMENT SPECIFICATIONS (CONT'D)

Dimensions (Cont'd)

DESCRIPTION	8TB BACKHOE
Digging Depth (2 ft. Flat Bottom) (**A**)	97.51 in. (2476,75 mm)
Reach From Pivot Point (**B**)	135.13 in. (3432,30 mm)
Loading Height (Bucket at 60 degrees) (**C**)	80 in. (2032 mm)
Loading Reach (**D**)	51.6 in. (1310,64 mm)
Maximum Leveling Angle (**E**)	18°
Swing Arc (**F**)	180°
Bucket Rotation (**G**)	180°
Stabilizer Spread (Transport) (**H**)	53.75 in. (1365,25 mm)
Stabilizer Spread (Operating) (**I**)	90 in. (2286 mm)
Boom Swing Mechanism	Twin Cylinder
Digging Force Using Bucket Cylinder	4156 lb. (1885,13 kg)
Digging Force Using Arm Cylinder	2183 lb. (990,19 kg)
Lift Capacity Boom Cylinder	547 lb. (248,12 kg)
Overall Width	53.75 in. (1365,25 mm)
Digging Depth (Maximum)	103.36 in. (2625,34 mm)
Net Weight (With 12 in. (305 mm) Bucket)	1378 lb. (625,23 kg)

CYLINDER DESCRIPTION	PISTON DIA.	STROKE	RETRACTED LENGTH	EXTENDED LENGTH	ROD DIA.
Boom	2.75 in.	16.75 in.	25.50 in.	42.25 in.	1.50 in.
	(69,85 mm)	(425,45 mm)	(647,7 mm)	(1073,15 mm)	(38.1 mm)
Arm	2.25 in.	17.6 in.	26.19 in.	43.88 in.	1.50 in.
	(57,15 mm)	(447,04 mm)	(665,23 mm)	(1114,55 mm)	(38,10 mm)
Bucket	2.25 in.	19.25 in.	27.00 in.	46.25 in.	1.50 in.
	(57,15 mm)	(488,95 mm)	(685,8 mm)	(1174,75 mm)	(38,10 mm)
Swing	2.25 in.	8.56 in.	16.00 in.	24.56 in.	1.13 in.
	(57,15 mm)	(217,4 mm)	(406,4 mm)	(623,82 mm)	(28,70 mm)
Stabilizer	2.25 in.	14.00 in.	21.00 in.	35.00 in.	1.38 in.
	(57,15 mm)	(355,6 mm)	(533,4 mm)	(889 mm)	(35,05 mm)

CONTROLS	8TB BACKHOE
Boom & Swing	Left Hand Lever (with detent (float) feature)
Arm & Bucket	Right Hand Lever

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SAFETY INSTRUCTIONS

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

DANGER

The signal word DANGER on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.

D-1002-1107

WARNING

The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

W-2044-1107

The Bobcat machine and attachment / implement must be in good operating condition before use.

Check all of the items on the Bobcat 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 and the attachment / implement.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat Company 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 / implement safely under all conditions of the work area. Fasten seat belt securely when Roll-Over Protective Structure (ROPS) is up and locked. DO NOT wear the seat belt if ROPS is down.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the machine and attachment / implement load capacities. 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 *Call Before You Dig* Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment, hearing protection, Special Applications Kits or a Front Window Guard are required for some work. See your Bobcat dealer about Bobcat Safety equipment for your machine.

SI ATT IMP-0208

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