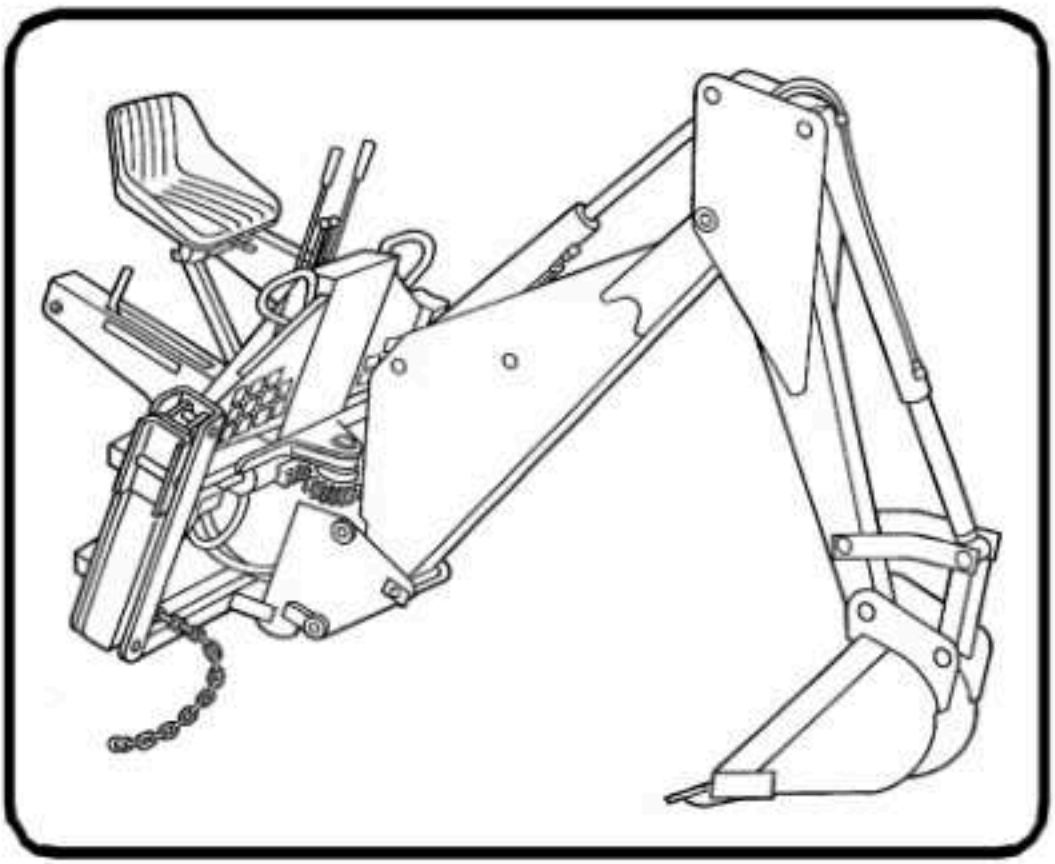
Bobcat®

Operation & Maintenance Manual
Backhoe

(607) S/N 775002278 & Above
(607) S/N A5CW00101 & Above
(709) S/N 270007245 & Above
(709) S/N A54M00101 & Above
(709FDS) S/N 584101444 & Above
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REFERENCE INFORMATION

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

Backhoe Serial Number _____

NOTES:

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
UNITED STATES OF AMERICA

Doosan Benelux SA
Drève 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 Bobcat backhoe. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT BACKHOE. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS IS0 9001 CERTIFIED 7

SERIAL NUMBER LOCATION 9
Attachment Serial Number 9

DELIVERY REPORT 9

MANUAL STORAGE LOCATION 9

ATTACHMENT IDENTIFICATION 10
Backhoe Equipped With Telescoping Stabilizers 10
Backhoe Equipped With Outrigger Stabilizers 11

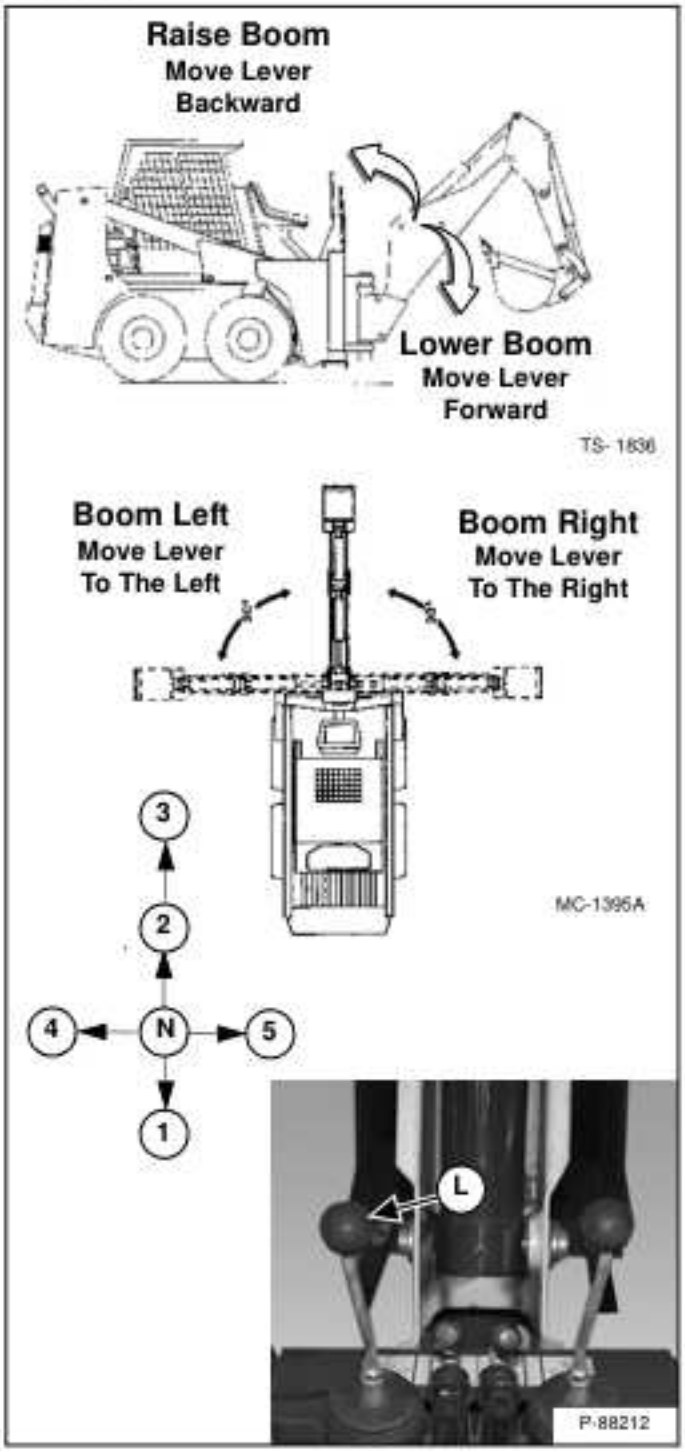
FEATURES AND ACCESSORIES 12
Options And Accessories 12

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Operation With The Loader (Cont'd)

Boom / Swing Operation

Figure 71



Learn the function of the control levers before you start the engine to begin operation **[Figure 71]**.

⚠ WARNING

AVOID INJURY OR DEATH

- **Never permit personnel to stand in the maximum swing reach area while operating the backhoe.**
- **Never move a load above other personnel.**

W-2681-1007

LEFT LEVER (Item L) **[Figure 71]** - Boom and Swing

NOTE: Reference to left-hand and right-hand refers to the left and right side of the backhoe as viewed from the backhoe operator's seat.

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 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).

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LUBRICATING THE ATTACHMENT

Lubrication Locations

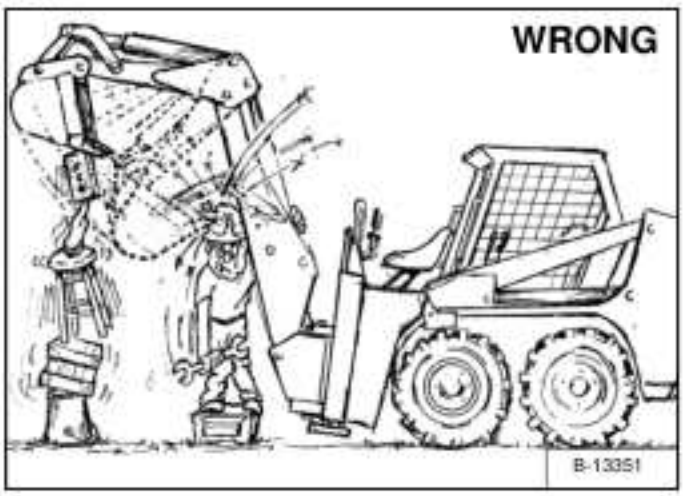
⚠ WARNING

AVOID INJURY OR DEATH

Always lower the Backhoe attachment to the ground before lubricating or servicing.

W-2178-0295

Figure 124



[Figure 124] is an example of what not to do, refer to the warning.

Always use a good quality lithium base multi purpose grease when lubricating the backhoe. Apply lubricant until extra grease shows.

⚠ WARNING

AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- **When fluids are under pressure.**
- **Flying debris or loose material is present.**
- **Engine is running.**
- **Tools are being used.**

W-2019-0907

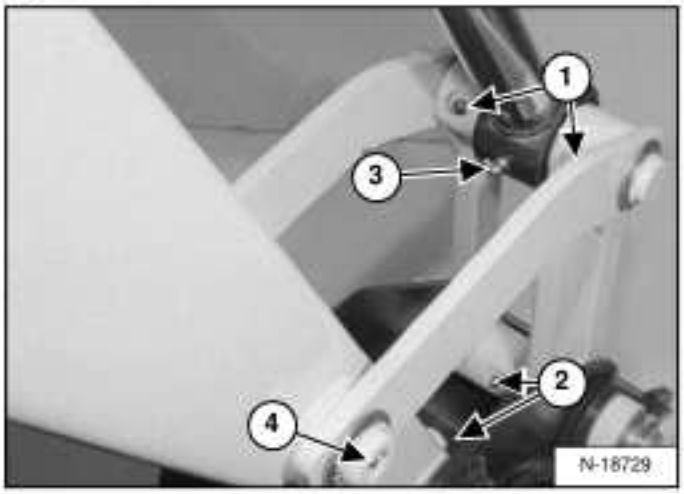
IMPORTANT

Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0499

Lubricate the backhoe every **8 HOURS** of operation.

Figure 125

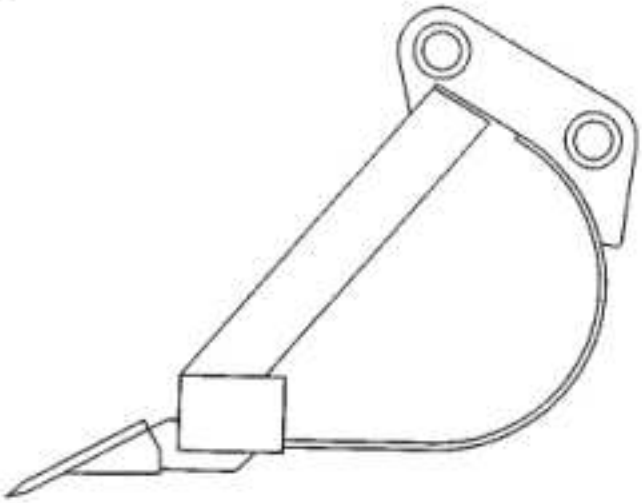


Lubrication points **[Figure 125]**.

1. Arm Link Pivot (2 fittings)
2. Bucket Link Pivot (2 fittings)
3. Bucket Cylinder Base End (1 fitting)
4. Bucket Link Pin (1 fitting)

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BUCKET SPECIFICATIONS



MC-1411

607 Pin on Bucket	Bucket Size	Capacity SAE Heaped	Shipped Weight
	305 mm (12 in)	0,033 m^3 (1.20 ft^3)	52 kg (114 lb)
	406 mm (16 in)	0,051 m^3 (1.79 ft^3)	61 kg (134 lb)
	508 mm (20 in)	0,069 m^3 (2.43 ft^3)	66 kg (145 lb)
	610 mm (24 in)	0,091 m^3 (3.20 ft^3)	77 kg (170 lb)

607 X-Change Buckets	Bucket Size	Capacity SAE Heaped	Shipped Weight
	330 mm (13 in)	0,037 m^3 (1.32 ft^3)	69 kg (146 lb)
	406 mm (16 in)	0,049 m^3 (1.75 ft^3)	76 kg (167 lb)
	508 mm (20 in)	0,066 m^3 (2.34 ft^3)	89 kg (194 lb)
	610 mm (24 in)	0,083 m^3 (2.94 ft^3)	100 kg (220 lb)
	990 mm (39 in)	0,146 m^3 (5.15 ft^3)	127 kg (278 lb)

709 Pin on Bucket	Bucket Size	Capacity SAE Heaped	Shipped Weight
	305 mm (12 in)	0,043 m^3 (1.52 ft^3)	59 kg (136 lb)
	406 mm (16 in)	0,060 m^3 (2.11 ft^3)	66 kg (145 lb)
	508 mm (20 in)	0,080 m^3 (2.81 ft^3)	73 kg (160 lb)
	610 mm (24 in)	0,103 m^3 (3.62 ft^3)	82 kg (181 lb)
	762 mm (30 in)	0,130 m^3 (4.60 ft^3)	103 kg (227 lb)

709 X-Change Buckets	Bucket Size	Capacity SAE Heaped	Shipped Weight
	330 mm (13 in)	0,042 m^3 (1.5 ft^3)	67 kg (149 lb)
	406 mm (16 in)	0,056 m^3 (2.0 ft^3)	76 kg (169 lb)
	508 mm (20 in)	0,076 m^3 (2.7 ft^3)	89 kg (196 lb)
	610 mm (24 in)	0,096 m^3 (3.4 ft^3)	100 kg (221 lb)
	762 mm (30 in)	0,124 m^3 (4.4 ft^3)	112 kg (248 lb)
	914 mm (36 in)	0,156 m^3 (5.5 ft^3)	128 kg (282 lb)
	990 mm (39 in)	0,130 m^3 (4.6 ft^3)	125 kg (276 lb)

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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 operating the machine. Untrained operators can cause injury or death.

W-2001-0502

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 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.

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 safely under all conditions of the work area. Always fasten seat belt before operating.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the machine 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-0509

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