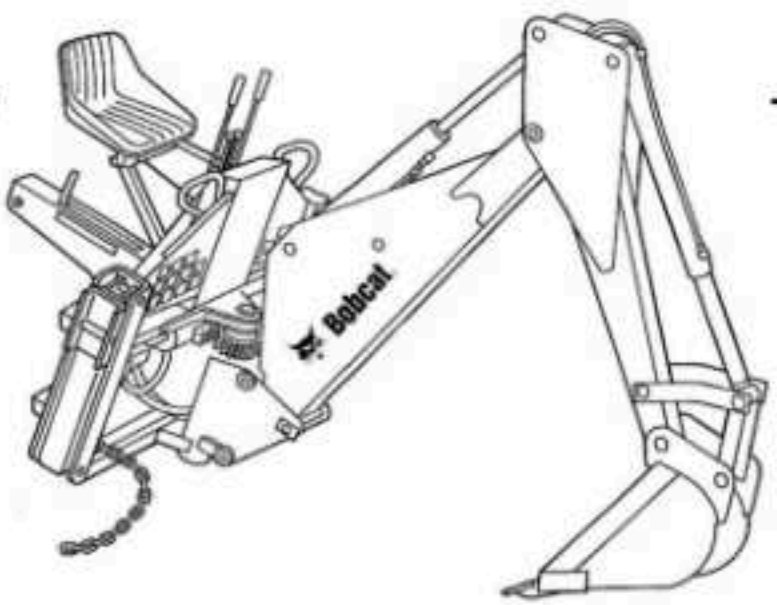
BACKHOE
607
709
709FDS

Bobcat®

Operation & Maintenance Manual

S/N 270007244 & Below
S/N 584101443 & Below
S/N 775002277 & Below



6902593 (7-03) Revised (3-06)

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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.

Backhoe
Serial Number _____

NOTES _____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

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

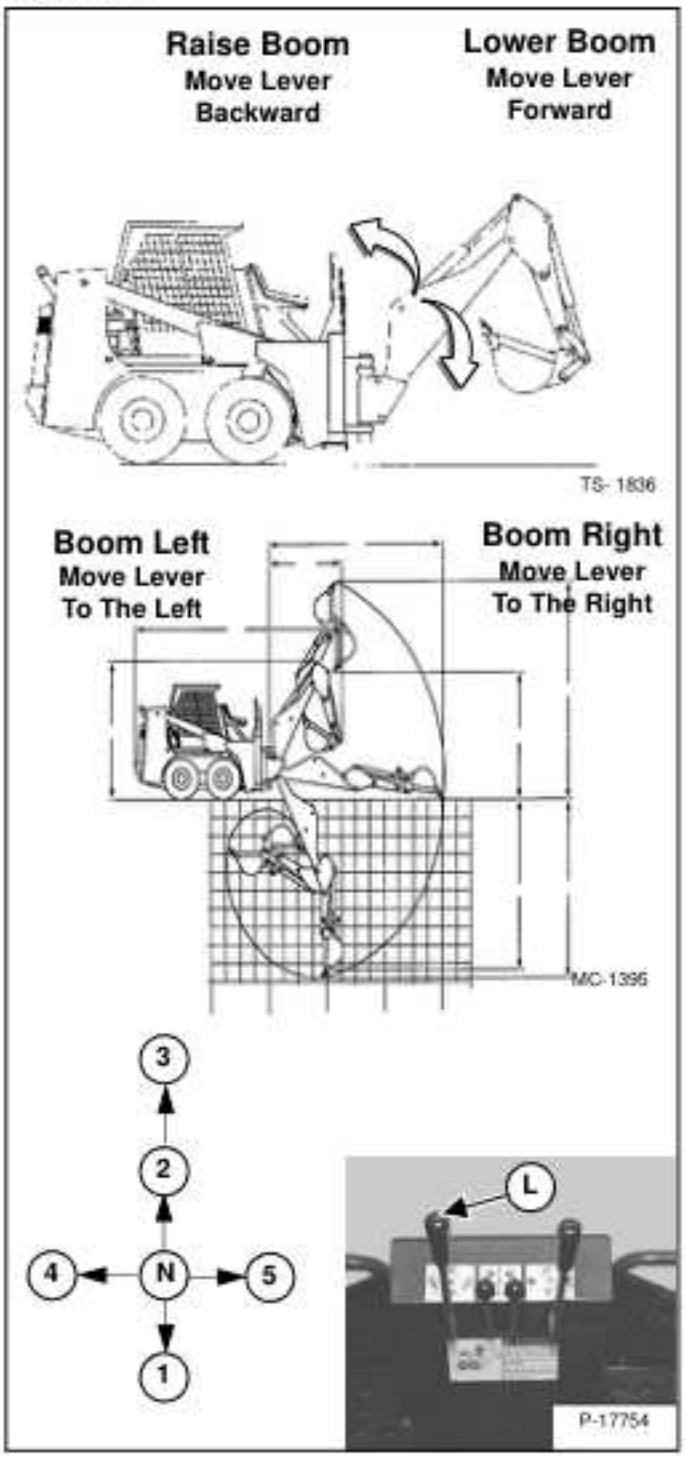
Bobcat Company Europe
J. Huysmanslaan 59
B-1651 LOT
Belgium

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BACKHOE CONTROLS

Operating Control Levers

Figure OI-45



Learn the function of the control levers before you start the engine to begin operation **[Figure OI-45]**.

LEFT LEVER **L** **[Figure OI-45]** - 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 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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LUBRICATION OF THE BACKHOE

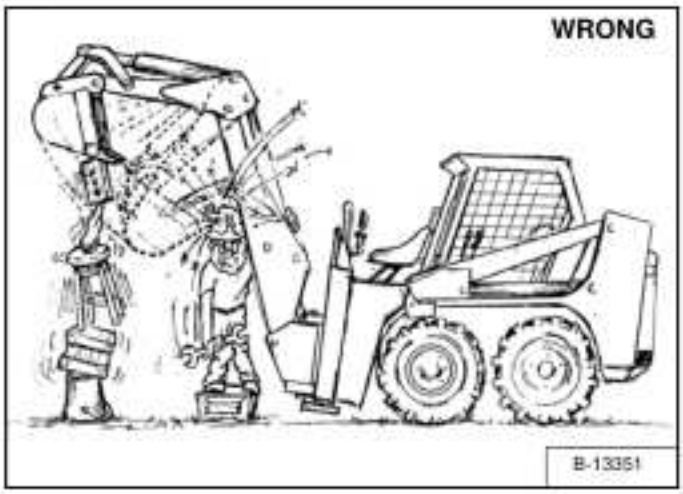
⚠ WARNING

AVOID INJURY OR DEATH

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

W-2178-0295

Figure PM-3

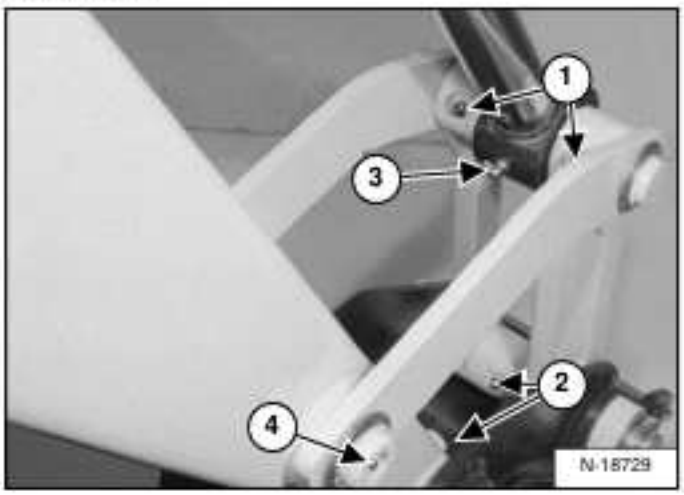


Support the backhoe correctly before performing any maintenance **[Figure PM-3]**.

Use only a high grade of lubricating grease. Add grease to the fittings until the extra grease shows.

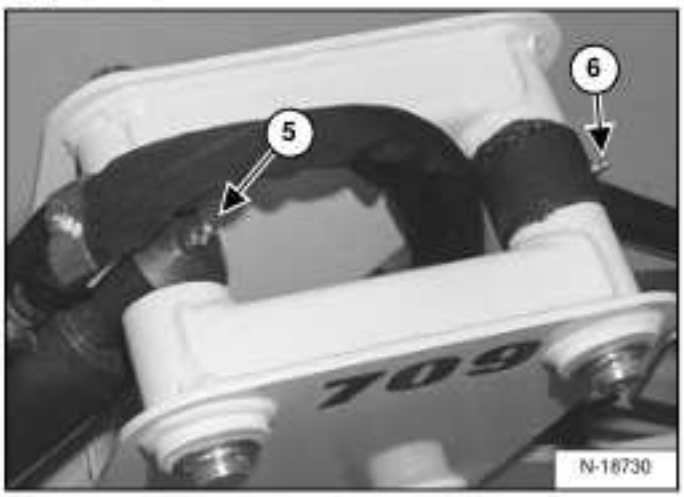
Lubricate the backhoe every **8 HOURS** of operation.

Figure PM-4



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)

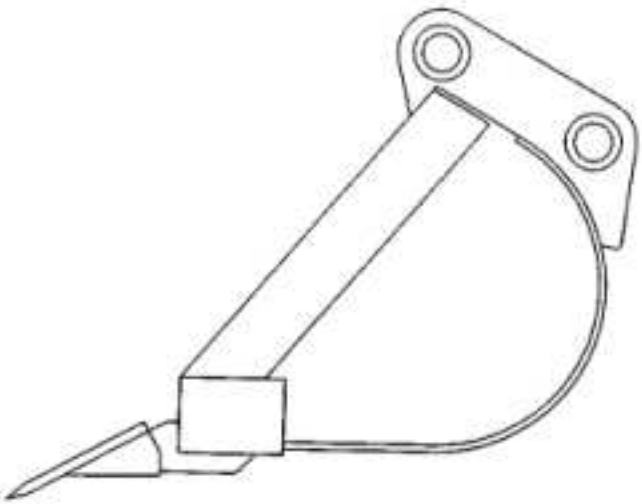
Figure PM-5



5. Bucket Cylinder Base End (1 fitting)
6. Arm Cylinder Rod End (1 fitting)

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BUCKET SPECIFICATIONS



MC-1411

607 Pin on Bucket	Bucket Size	Capacity SAE Heaped	Shipped Weight
	12 in. (305)	1.20 cu. ft. (0.033 cu. m.)	114 lb. (52 kg)
	16 in. (406)	1.79 cu. ft. (0.051 cu. m.)	134 lb. (61 kg)
	20 in. (508)	2.43 cu. ft. (0.069 cu. m.)	145 lb. (66 kg)
	24 in. (610)	3.20 cu. ft. (0.091 cu. m.)	170 lb. (77 kg)

607 X-Change Buckets	Bucket Size	Capacity SAE Heaped	Shipped Weight
	13 in. (330)	1.32 cu. ft. (0.037 cu. m.)	146 lb. (69 kg)
	16 in. (406)	1.75 cu. ft. (0.049 cu. m.)	167 lb. (76 kg)
	20 in. (508)	2.34 cu. ft. (0.066 cu. m.)	194 lb. (89 kg)
	24 in. (610)	2.94 cu. ft. (0.083 cu. m.)	220 lb. (100 kg)
	39 in. (990)	5.15 cu. ft. (0.146 cu. m.)	278 lb. (127 kg)

709 Pin on Bucket	Bucket Size	Capacity SAE Heaped	Shipped Weight
	12 in. (305)	1.52 cu. ft. (0.043 cu. m.)	1306 lb. (59 kg)
	16 in. (406)	2.11 cu. ft. (0.060 cu. m.)	145 lb. (66 kg)
	20 in. (508)	2.81 cu. ft. (0.080 cu. m.)	160 lb. (73 kg)
	24 in. (610)	3.62 cu. ft. (0.103 cu. m.)	181 lb. (82 kg)
	30 in. (762)	4.60 cu. ft. (0.130 cu. m.)	227 lb. (103 kg)

607 X-Change Buckets	Bucket Size	Capacity SAE Heaped	Shipped Weight
	13 in. (330)	1.5 cu. ft. (0.042 cu. m.)	149 lb. (67 kg)
	16 in. (406)	2.0 cu. ft. (0.056 cu. m.)	169 lb. (76 kg)
	20 in. (508)	2.7 cu. ft. (0.076 cu. m.)	196 lb. (89 kg)
	24 in. (610)	3.4 cu. ft. (0.096 cu. m.)	221 lb. (100 kg)
	30 in. (762)	4.4 cu. ft. (0.124 cu. m.)	248 lb. (112 kg)
	36 in. (914)	5.5 cu. ft. (0.156 cu. m.)	282 lb. (128 kg)
	39 in. (991)	4.6 cu. ft. (0.130 cu. m.)	276 lb. (125 kg)

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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

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 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.

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 *USE SAFETY RULES* Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, 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-0805

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