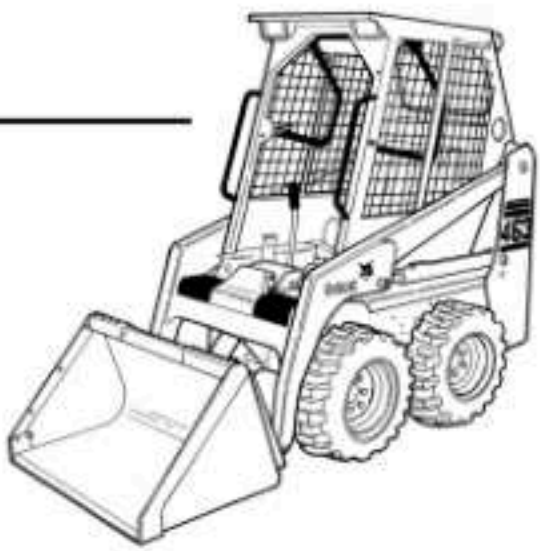
463

Bobcat®

Operation & Maintenance Manual

S/N 538911001 & Above
S/N 539011001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS)

6903710 (12-04) Revised (5-07) (2)

Printed in U.S.A.

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SPECIFICATIONS SPEC-1

REFERENCE INFORMATION

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

Loader Serial Number _____

Engine Serial Number _____

_____

_____

NOTES:

_____

_____

_____

_____

YOUR BOBCAT® DEALER:

_____

ADDRESS:

_____

PHONE:

_____

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

Bobcat Company Europe
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 Machine Name. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR Bobcat Loader. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS ISO 9001 CERTIFIED V

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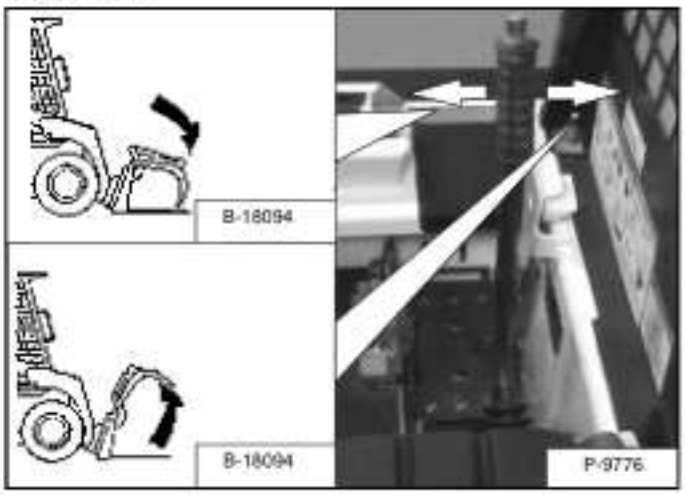
REGULAR MAINTENANCE ITEMS V

SERIAL NUMBER LOCATIONS VI
Engine Serial Number VI
Loader Serial Number VI

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Quick Couplers (Cont'd)

Figure OI-20



The right steering lever is also the control lever for the front auxiliary hydraulics.

Move the right steering lever to the left or to the right to activate the auxiliary hydraulics to operate an attachment. (EXAMPLE: To open or close grapple teeth.) **[Figure OI-20]**.

Move the lever in the opposite direction to reverse the action of the attachment.

Auxiliary Hydraulic Continuous Operation

Move the steering lever all the way to the right (Item 1) **[Figure OI-20]** until it locks to put the control valve into the continuous operation position for a constant flow of hydraulic fluid under pressure to the quick couplers. (EXAMPLE: Backhoe operation)

Move the auxiliary control lever out of the continuous operation before leaving the operator cab.

Relieving Hydraulic Pressure

With the engine stopped and attachment flat on the ground, move the right steering lever to the left and to the right several times **[Figure OI-20]**.

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LUBRICATING THE BOBCAT LOADER

Lubrication Locations

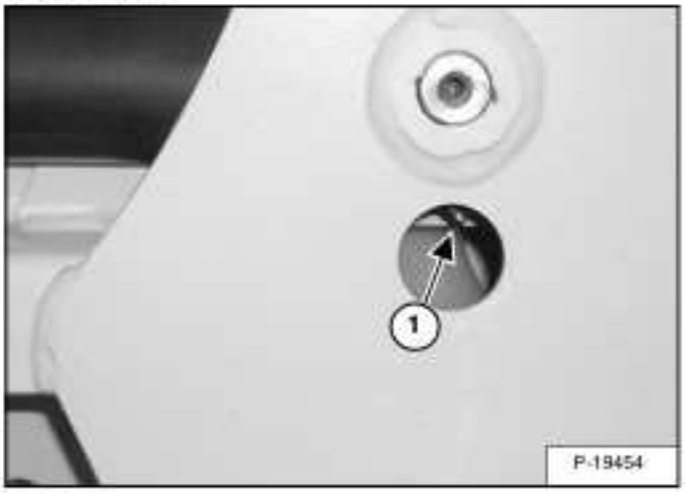
Lubricate the loader as specified for the best performance of the loader. (See SERVICE SCHEDULE on Page PM-5.)

Record the operating hours each time you lubricate the Bobcat Loader.

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

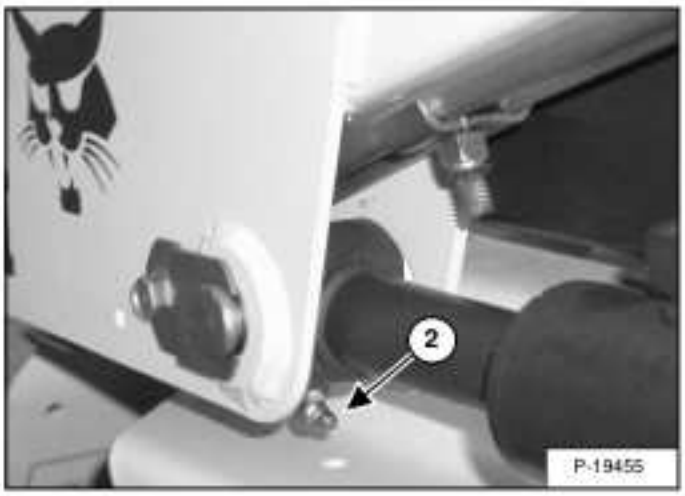
Lubricate the following:

Figure PM-48



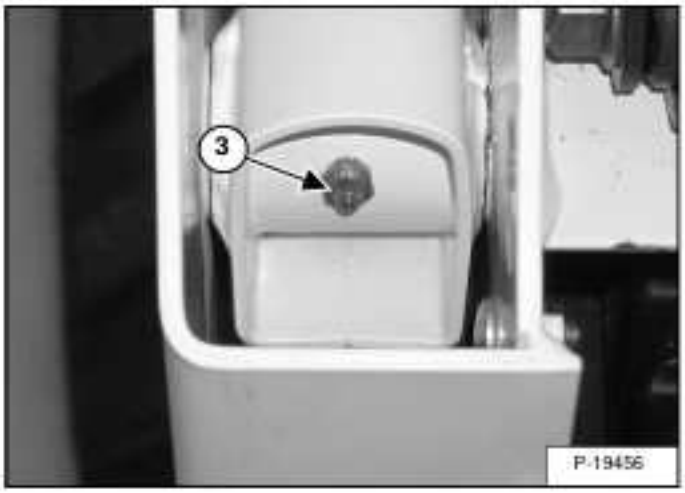
1. Rod End Lift Cylinder (Both Sides) **[Figure PM-48]**.

Figure PM-49



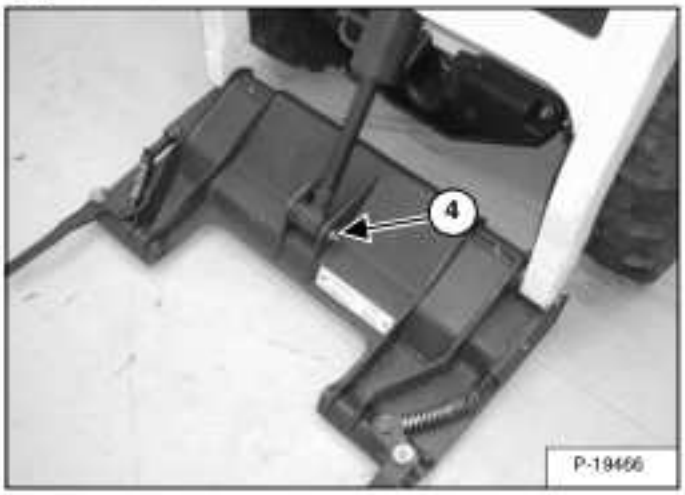
2. Base End Lift Cylinder (Both Sides) **[Figure PM-49]**.

Figure PM-50



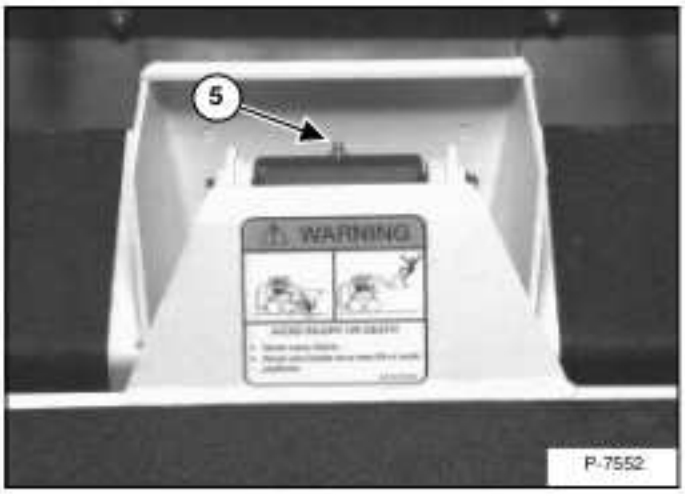
3. Lift Arm Pivot Pin (Both Sides) **[Figure PM-50]**.

Figure PM-51



4. Rod End Tilt Cylinder (Item 1)**[Figure PM-51]**.

Figure PM-52



5. Base End Tilt Cylinder **[Figure PM-52]**.

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LOADER SPECIFICATIONS (463) (CONT'D)

Performance

Rated Operating Capacity (ISO)	700 lb. (318 kg)
Tipping Load (ISO Rating)	1455 lb. (660 kg)
Operating Weight	2708 lb. (1228 kg)
SAE Breakout Force - Lift	1450 lb. (6450 N)
SAE Breakout Force - Tilt	2025 lb. (9008 N)
Push Force	2000 lb. (8896 N)
Travel Speed	0 - 6.5 MPH (0 - 10,5 km/hr.)

Controls

Vehicle Steering	Direction and speed controlled by two steering levers
Loader Hydraulics - Lift and Tilt - Front Auxiliary	 Controlled by separate foot pedals Controlled by Right Hand steering lever
Engine	Hand lever engine speed control; key-type starter switch
Starting Aid	Glow Plugs controlled by switch in instrument panel
Service Brake	Two independent hydrostatic systems controlled by two hand operated steering levers
Secondary Brake	One of the hydrostatic transmissions
Parking Brake (Standard)	Mechanical disc, hand operated rocker switch on instrument panel

Engine

Make / Model	Kubota D1005-E2B-BC-3
Fuel / Cooling	Diesel / Liquid
Horsepower (SAE Net)	22.5 HP (16,8 kW) @ 3000 RPM
Low Idle	1125 - 1175 RPM
High Idle	3125 - 3175 RPM
Torque (SAE Gross)	45.6 lbf.-ft. (62,8 N•m) @ 2200 RPM
Number of Cylinders	3
Displacement	61.1 cu. in. (1,0 L)
Bore / Stroke	2.99 in. / 2.90 in. (76,0 mm / 73,6 mm)
Lubrication	Gear Pump Pressure System with Filter
Crankcase Ventilation	Closed Breathing
Air Cleaner	Dry replaceable paper cartridge with separate safety element
Ignition	Diesel - Compression
Engine Coolant	Propylene Glycol / Water Mixture
Starting Aid	Glow Plugs

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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 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.
- Operator Training Courses are available from your Bobcat dealer in English and Spanish. They provide information for safe and efficient equipment operation. Safety videos are also available.
- Service Safety Training Courses are available from your Bobcat dealer. They provide information for safe and correct service procedures.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Operating Capacity (R.O.C.) of the machine. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of the 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, hearing protection or Special Applications Kits are required for some work. See your Bobcat dealer about Bobcat Safety Equipment for your model.

SI SSL-0307

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DANGER (6717343)







IMPORTANT (6560573)







WARNING (6576048)







WARNING (6710358)







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