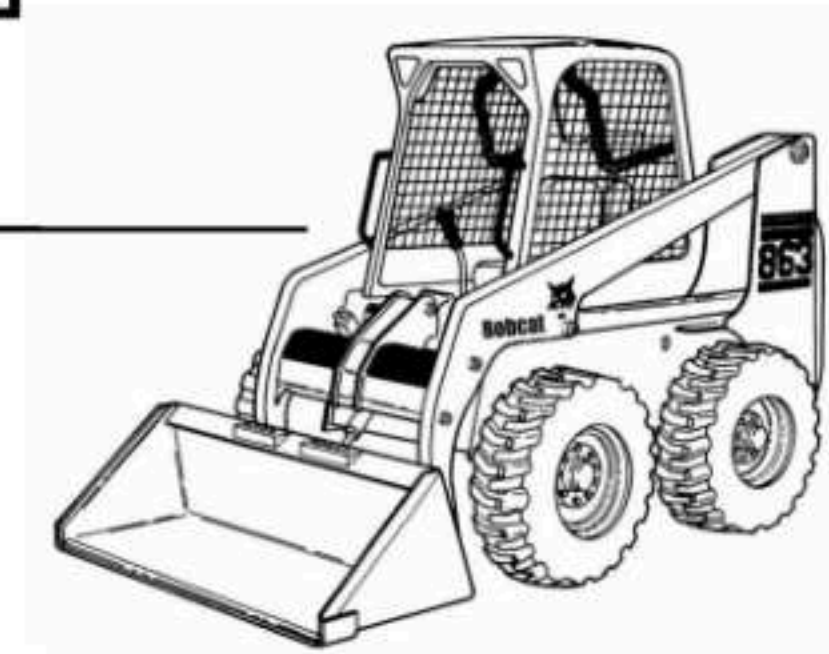
TURBO
863
TURBO
863
HIGH FLOW

Bobcat®

Operation & Maintenance Manual

S/N 514440001 & Above
S/N 514540001 & Above
S/N 514640001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS)

6900937 (9-04) Revised (12-06) (3)

Ingersoll Rand

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

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

DELIVERY REPORT. VI

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

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Hand Controls (If Equipped)

Lift Arm Operation **[Figure OI-19]**

The left hand lever controls the lift arms.

Move the left hand lever away from the operator (Item 4) **[Figure OI-19]** to raise the lift arms.

Move the left hand lever toward the operator (Item 5) **[Figure OI-19]** to lower the lift arms.

Lift Arm Float Position **[Figure OI-19]**

Move the left hand lever all the way toward the operator (Item 5) **[Figure OI-19]** until it locks into the *float* position.

Later ACS & AHC Models With Float Button:
- **To Engage**: Press and hold the Float Button (Item 6) **[Figure OI-19]** while the lever is in neutral. Move the lever to the lift arm down position (Item 5) **[Figure OI-19]**, then release the button.
- **To Disengage**: Press Float Button again or move the lever to the lift arm up position (Item 4) **[Figure OI-19]**.

Use the *float* position of the lift arms to level loose material while driving backward.

Move the left hand lever upward to unlock from the *float* position.

Tilt Operation **[Figure OI-20]**

The right hand lever controls the bucket.

Move the right hand lever toward the operator (Item 5) **[Figure OI-20]** to tilt the bucket backward.

Move the right hand lever away from the operator (Item 4) **[Figure OI-20]** to tilt the bucket forward.

⚠ WARNING

Keep both feet on pedals or footrests while operating machine. Failure to do so can cause serious injury.

W-2359-1099

Quick Couplers

Figure OI-21



Figure OI-22



To Connect: Remove dirt or debris from the surface of both the male and female couplers, and from the outside diameter of the male coupler. Visually check the couplers for corroding, cracking, damage, or excessive wear. If any of these conditions exist, the coupler(s) must be replaced **[Figure OI-21]** and **[Figure OI-22]**.

Install the male coupler into the female coupler.

To Disconnect: Hold the male coupler. Retract the sleeve on the female coupler until the couplers disconnect.

⚠ WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

W-2220-0396

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LUBRICATING THE BOBCAT LOADER

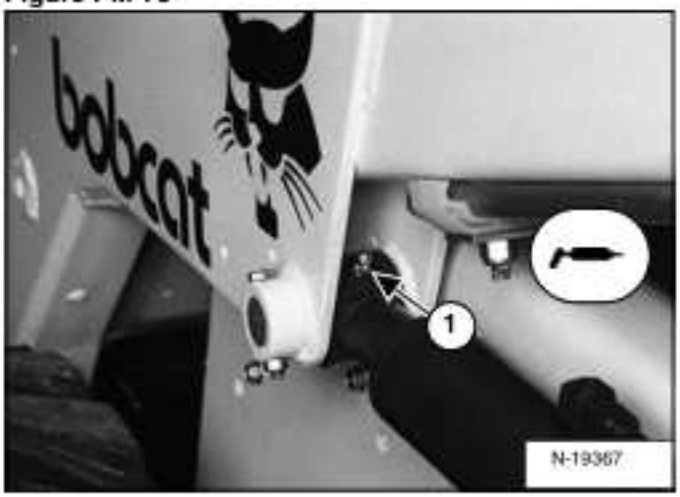
Lubricate the loader as specified in the SERVICE SCHEDULE for the best performance of the loader.(See SERVICE SCHEDULE on Page PM-7.)

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

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

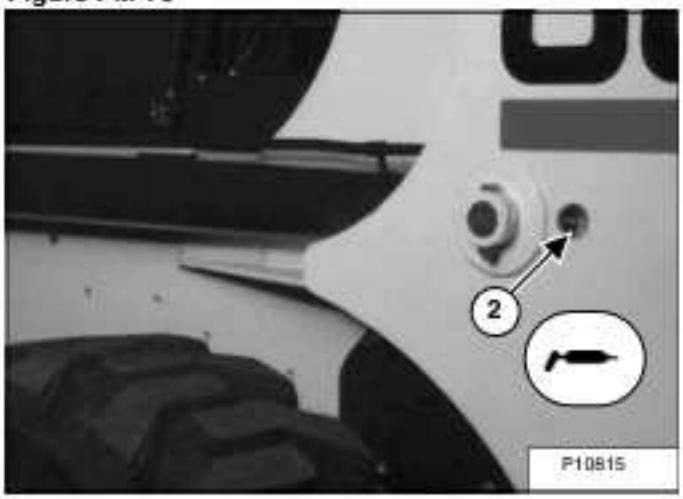
Lubricate the following locations on the loader:

Figure PM-75



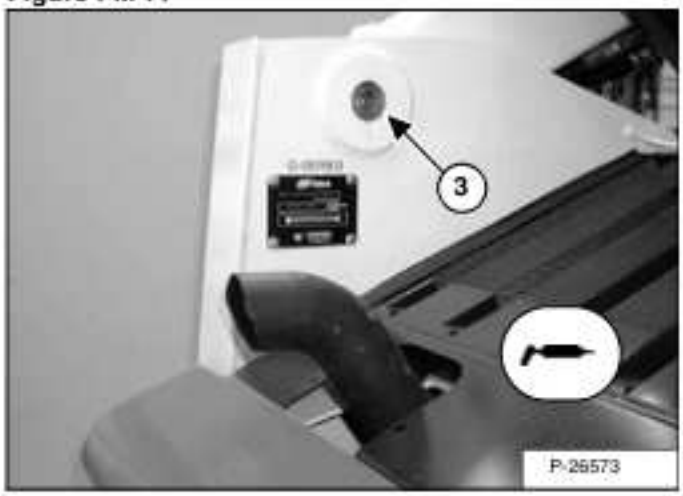
1. Rod End Lift Cylinder (Both Sides) **[Figure PM-75]**.

Figure PM-76



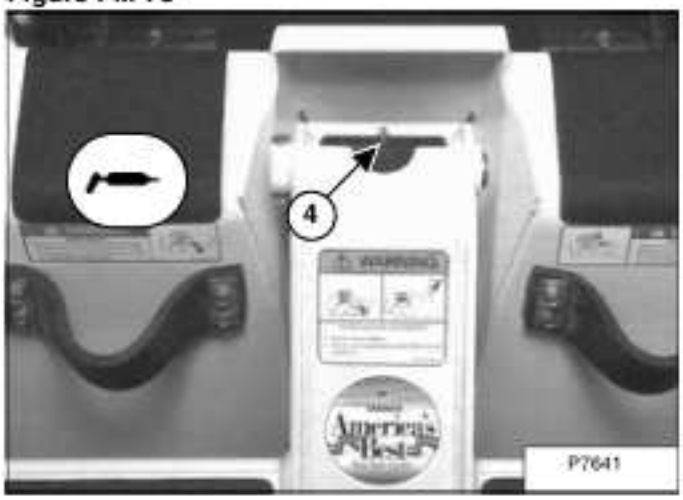
2. Base End Lift Cylinder (Both Sides) **[Figure PM-76]**.

Figure PM-77



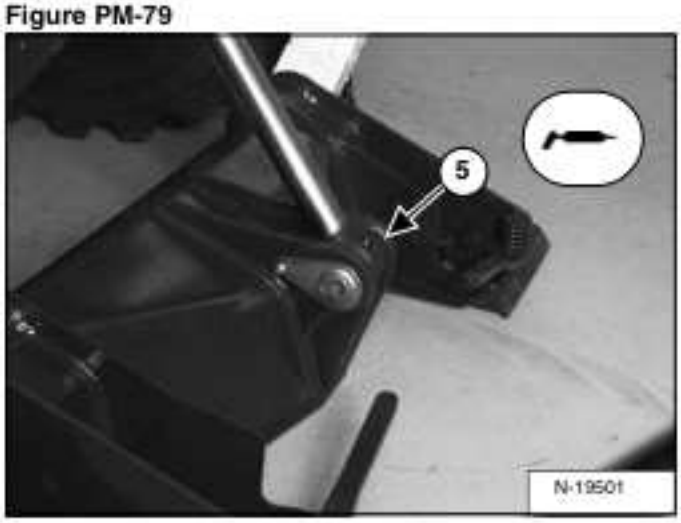
3. Lift Arm Pivot Pin (Both Sides) **[Figure PM-77]**.

Figure PM-78



4. Base End Tilt Cylinder (Both Sides) **[Figure PM-78]**.

Figure PM-79



5. Rod End Tilt Cylinder (Both Sides) **[Figure PM-79]**.

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SKID STEER LOADER SPECIFICATIONS (CONT'D)

Loader Controls

Steering	Two hand levers
Loader Hydraulics	Separate foot pedals (or optional Advanced Control System)
Auxiliary Hydraulics	Electric switches in steering levers
Parking Brake	Foot operated pedal (Early) Switch in Instrument Panel (Later)

Drive System

Main Drive	Hydrostatic 4 wheel drive
Transmission	Infinitely variable tandem hydrostatic piston pumps, driving 2 fully reversing hydrostatic motors
Final Drive	#100 HS endless roller chain and sprockets in sealed chaincase with oil lubrication.

Hydraulic System

Engine driven, gear type	18 GPM (68,1 L/min.) @ 2450 RPM
Hi-Flow (Option)	28 GPM (106 L/min.) @ 2450 RPM
System Relief @ quick couplers	3000 PSI (206 bar)

Electrical System

Alternator	12 - volts, 50 or 90 amp, open, neg. ground
Battery	12 volts - 1000 CCA @ 0° F (-18° C)

Standard Instrumental Panel

Gauges: Hourmeter, Fuel, Engine Coolant Temperature.

Warning Lights: Fuel Level, Glow Plugs, System Voltage, Seat Belt, Engine Coolant Temperature, Engine Oil Pressure, Hydrostatic Charge Pressure, Hydraulic Oil Temperature, Engine Air Filter & Hydraulic Filter.

Optional Deluxe Instrumentation

* Same gauges and warning lights as standard instrumentation.
* Additional bar-type gauges for: Engine Oil Pressure, System Voltage, Hydrostatic Charge Pressure and Hydraulic Oil Temperature.
* Additional Features Include: Keyless Start, Clock, Job Clock, Help Screen, Diagnostic Capability. Automatic Shutdown Function & Audible Alarm.

Capacity

	CAPACITY:	TYPE
Fuel Tank	25 Gal. (4.6L)	Diesel #2 or #1
Engine Lubrication and Coolant System	16 qt. (15L)	See Chart page 57
Engine Oil Change w/Filter	10 qt. (9.5L)	See Chart page 57
Hyd./Hydros. Reservoir	4.7 Gal. (17,8L)	See Below
Hyd./Hydros. System	10.7 Gal. (40.5L)	See Below
Chain Case Reservoir	11 Gal. (41.66L)	See Below

- Abv. 0°F (-18°C) use Bobcat Fluid 6563328 or SAE 10W-30 SE, 10W-40 SE
- Bel. 0F (-18°C) use SAE 5W-30 SE

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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-0206

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