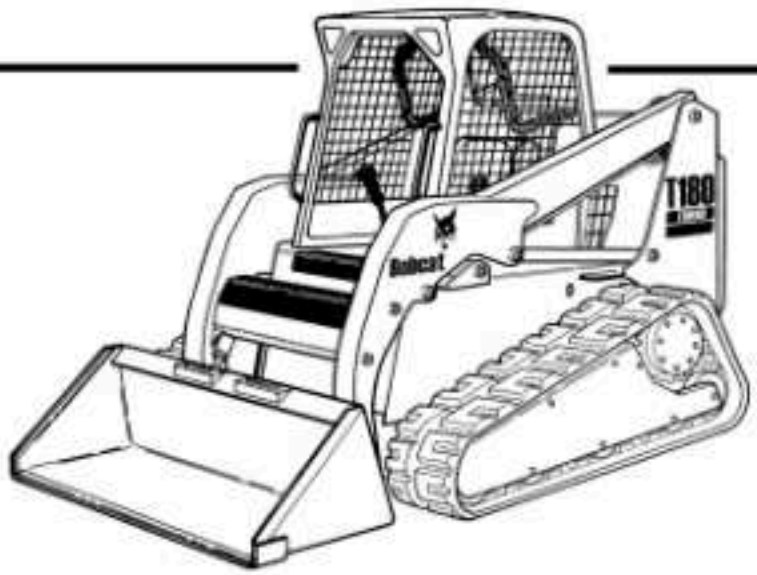
T180 TURBO

T180 TURBO HIGH FLOW

Bobcat®

Operation & Maintenance Manual

S/N 524211001 & Above



EQUIPPED WITH BOBCAT INTERLOCK CONTROL SYSTEM (BICS)

6902501 (9-04) Revised (12-06) (4)

Ingersoll Rand
Compact Vehicle Technologies

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

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B-1410 WATERLOO
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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 loader. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED V

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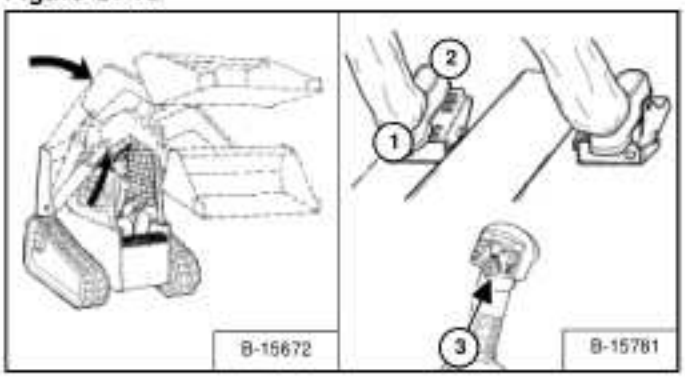
HYDRAULIC CONTROLS

Operation

Two foot pedals (or optional hand controls) control the hydraulic cylinders for the lift and tilt functions.

Put your feet on the pedals (or footrests) and KEEP THEM THERE any time you operate the loader.

Figure OI-16



Standard Controls (Also ACS - Foot Pedal Selected)

Lift Arm Operation - **(Left Pedal)**

Push the heel (Item 1) **[Figure OI-16]** of the pedal to raise the lift arms.

Push the toe (Item 2) **[Figure OI-16]** of the pedal to lower the lift arms.

Lift Arm Float Position - **(Left Pedal)**

Push the toe (Item 2) **[Figure OI-16]** of the pedal all the way forward until it locks into the float position.

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

Raise the lift arms to disengage the float position.

Lift Arm Float Position (With ACS) - **(Left Pedal)**

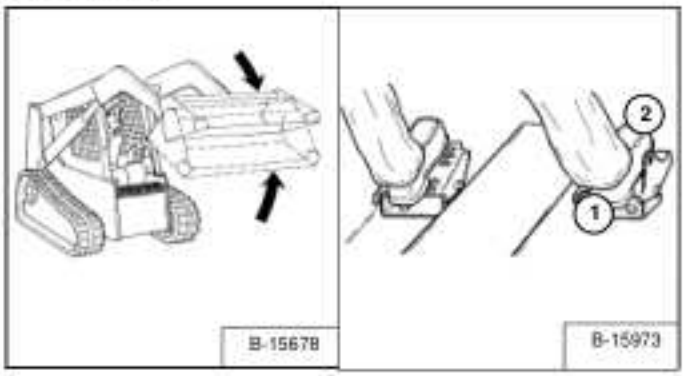
Press and hold the Float button on left hand lever (Item 3) **[Figure OI-16]**.

Push the toe (Item 2) **[Figure OI-16]** of the pedal forward to lower the lift arms. Then release the float button.

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

Raise the lift arms to disengage the float position.

Figure OI-17



Tilt Operation - **(Right Pedal)**

Push the heel (Item 1) **[Figure OI-17]** of the pedal to tilt the bucket backward.

Push the toe (Item 2) **[Figure OI-17]** of the pedal to tilt the bucket forward.

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LUBRICATING THE BOBCAT LOADER

Lubrication Locations

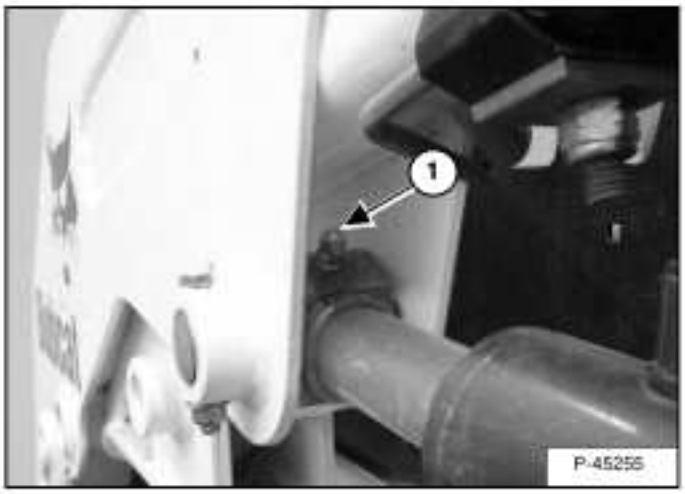
Lubricate the loader as specified for the best performance of the loader. (See SERVICE SCHEDULE on Page PM-7.)

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.

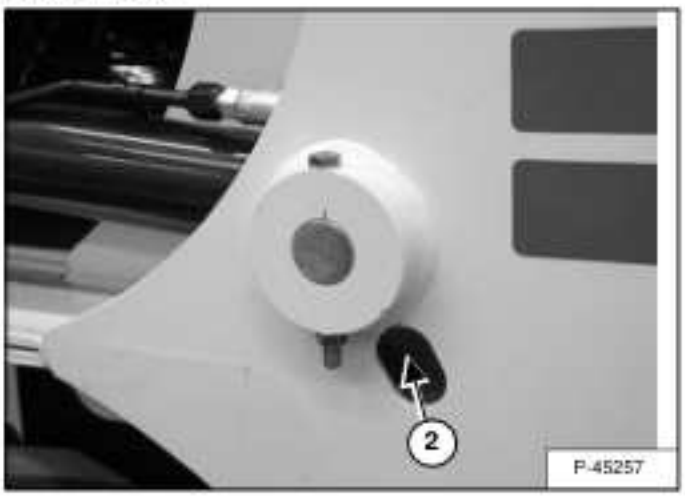
Lubricate the following:

Figure PM-65



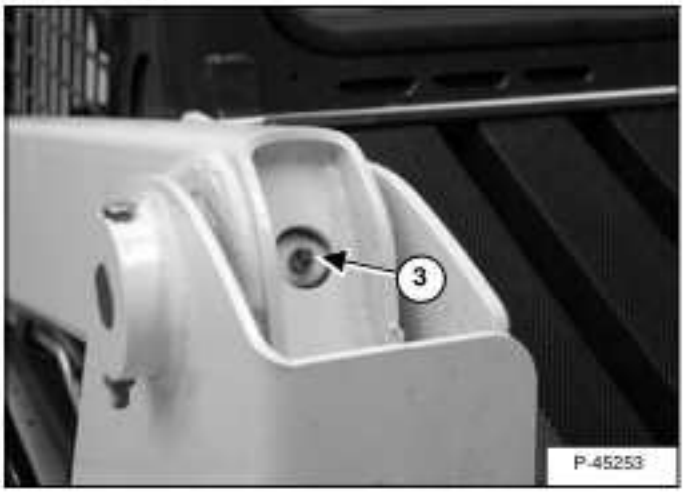
1. Rod End Lift Cylinder (Both Sides) **[Figure PM-65]**.

Figure PM-66



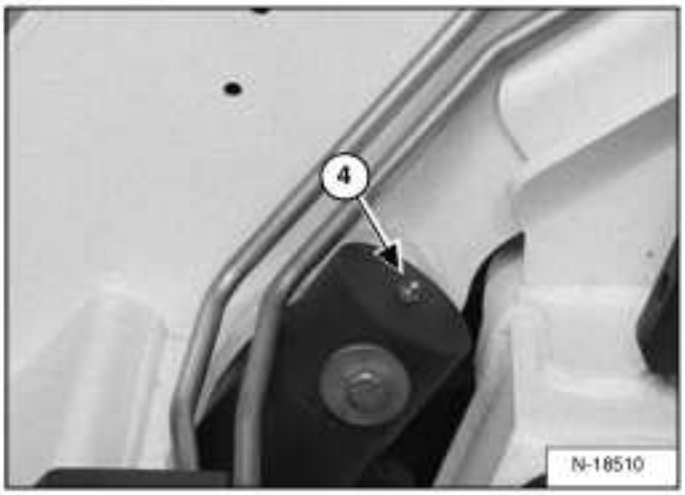
2. Base End Lift Cylinder (Both Sides) **[Figure PM-66]**.

Figure PM-67



3. Lift Arm Pivot Pin (Both Sides) **[Figure PM-67]**.

Figure PM-68



4. Base End Tilt Cylinder (Both Sides) **[Figure PM-68]**.

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LOADER SPECIFICATIONS (T180) (CONT'D)

Performance

Rated Operating Capacity (SAE)	1800 lb. (816 kg)
Tipping Load (SAE Rating)	5551 lb. (2518 kg)
Operating Weight	7078 lb. (3211 kg)
SAE Breakout Force - Lift	4350 lbf. (5898 N•m)
SAE Breakout Force - Tilt	3600 lbf. (4881 N•m)
Travel Speed	0 - 7.4 mph (11,9 km/hr.)

Controls

Vehicle Steering	Direction and speed controlled by two hand levers
Loader Hydraulics - Lift and Tilt - Front Auxiliary (Std.) - Rear Auxiliary (Option)	 Controlled by separate foot pedals *or* optional Advanced Control System (ACS) Controlled by electrical switch on Right Hand steering lever Controlled by electrical switch on Left Hand steering lever
Auxiliary Pressure Release	Front quick couplers. Push couplers in, hold for 5 seconds. Rear quick couplers. Press and hold (5 seconds) the AUXILIARY PRESSURE RELEASE Button on right hand instrument panel.
Engine	Hand lever speed control; key-type starter switch (*or* optional keyless start) and shutdown
Service Brake	Two independent hydrostatic systems controlled by two hand operated steering levers
Secondary Brake	One of the hydrostatic transmissions
Parking Brake (Std.)	Mechanical disc, hand operated rocker switch on instrument panel

Engine

Make/Model	Kubota V2003-M-DI-TE2B-BC-3
Fuel/Cooling	Diesel / Liquid
Horsepower, Net	56 HP (41,8 kW)
Maximum Governed RPM	2800 RPM
Torque, Net	120.8 lbf.-ft. (163.8 N•m) @ 1825 RPM
Number of Cylinders	4
Displacement	122.0 cu. in. (2.0 L)
Bore/Stroke	3.27/3.64 (83,1 mm / 92.4 mm)
Lubrication	Pressure System with Filter
Crankcase Ventilation	Open
Air Cleaner	Dry replaceable paper cartridge with safety element
Ignition	Diesel-Compression
Engine Coolant	Propylene Glycol / Water Mixture
Starting Aid	Glow Plug automatically activated by Std. or Deluxe Instrument Panel

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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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