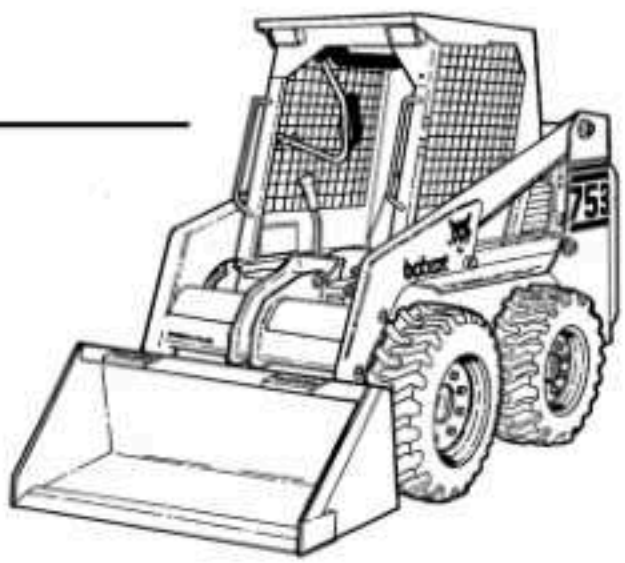
753

Bobcat®

Operation & Maintenance Manual

S/N 515830001 & Above
S/N 516220001 & Above



EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS)

6900969 (9-04) Revised (12-06) (3)

Ingersoll Rand
Compact Vehicle Technologies

Printed in U.S.A.

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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

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HYDRAULIC CONTROLS

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

Figure OI-18

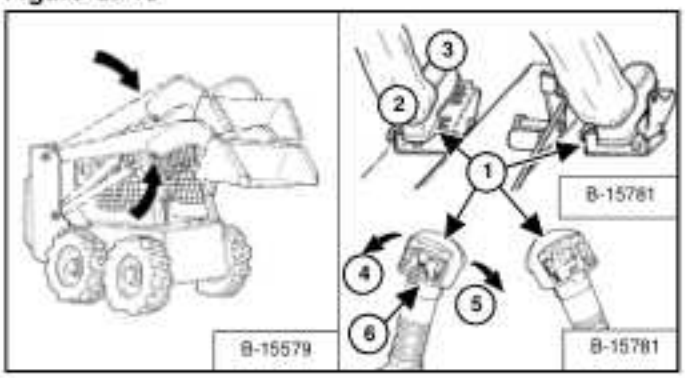
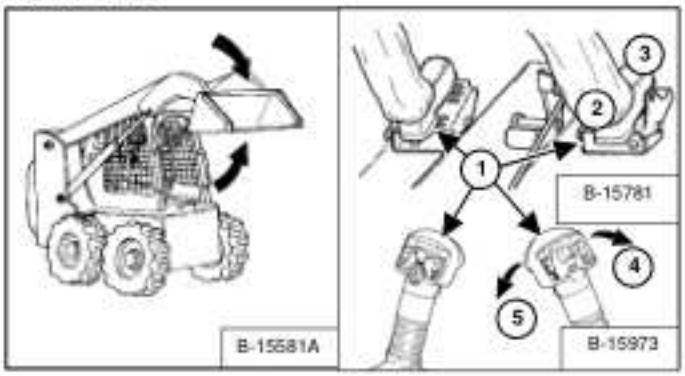


Figure OI-19



Two foot pedals (or hand controls) (Item 1) **[Figure OI-18]** and **[Figure OI-19]** control the hydraulic cylinders for the lift and tilt functions.

Foot Pedals

Lift Arm Operation **[Figure OI-18]**

The left pedal controls the lift arms.

Push on the bottom (heel) (Item 2) **[Figure OI-18]** of the pedal to raise the lift arms.

Push on the top (toe) (Item 3) **[Figure OI-18]** of the pedal to lower the lift arms.

Lift Arm Float Position **[Figure OI-18]**

Push the top (toe) (Item 3) **[Figure OI-18]** 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.

Push the bottom of the left pedal to unlock from the *float* position.

Tilt Operation **[Figure OI-19]**

The right pedal controls the bucket.

Push the bottom (heel) (Item 2) **[Figure OI-19]** of the pedal to tilt the bucket backward.

Push the top (toe) (Item 3) **[Figure OI-19]** of the pedal to tilt the bucket forward.

Advanced Hand Controls (If Equipped)

Lift Arm Operation **[Figure OI-18]**

The left hand lever controls the lift arms.

Move the left hand lever away from the operator (Item 4) **[Figure OI-18]** to raise the lift arms.

Move the left hand lever toward the operator (Item 5) **[Figure OI-18]** to lower the lift arms.

Lift Arm Float Position **[Figure OI-18]**

Move the left hand lever all the way toward the operator (Item 5) **[Figure OI-18]** 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-18]** while the lever is in neutral. Move the lever to the lift arm down position (Item 5) **[Figure OI-18]**, then release the button.
- To Disengage: Press Float Button again or move the lever to the lift arm up position (Item 4) **[Figure OI-18]**.

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-19]**

The right hand lever controls the bucket.

Move the right hand lever toward the operator (Item 5) **[Figure OI-19]** to tilt the bucket backward.

Move the right hand lever away from the operator (Item 4) **[Figure OI-19]** 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

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Replacing The Coolant (Cont'd)

Mix the coolant in a separate container. (See Capacities: on Page SPEC-5.)

NOTE: The loader is factory filled with propylene glycol coolant (purple color). DO NOT mix propylene glycol with ethylene glycol.

Add premixed coolant, 47% water and 53% propylene glycol to the recovery tank if the coolant level is low.

One gallon and one pint (4,3 L) of propylene glycol mixed with one gallon (3,8 L) of water is the correct mixture of coolant to provide a -34°F (-37°C) freeze protection. Use a refractometer to check the condition of propylene glycol in your cooling system.

Fill the radiator with the premixed coolant. Install the radiator cap.

Add coolant to the recovery tank. The coolant level must be between the MIN and MAX marks on the coolant recovery tank.

Run the engine until it is at operating temperature.

Stop the engine.

Check the coolant level in the recovery tank when cool.

Add coolant to the recovery tank as needed.

IMPORTANT

AVOID ENGINE DAMAGE

Always use the correct ratio of water to antifreeze.

Too much antifreeze reduces cooling system efficiency and may cause serious premature engine damage.

Too little antifreeze reduces the additives which protect the internal engine components; reduces the boiling point and freeze protection of the system.

Always add a premixed solution. Adding full strength concentrated coolant can cause serious premature engine damage.

I-2124-0497

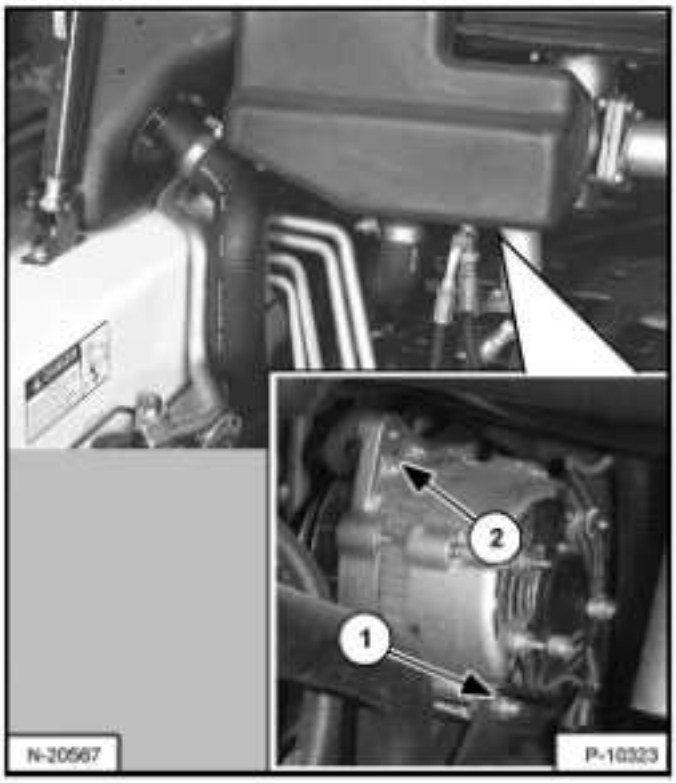
ALTERNATOR BELT

Adjusting

Stop the engine.

Raise the operator cab. (See Raising The Operator Cab on Page PM-10.)

Figure PM-47



Loosen the alternator mounting bolt (Item 1) **[Figure PM-47]**.

Loosen the adjustment bolt (Item 2) **[Figure PM-47]**.

Move the alternator until the belt has 5/16 inch (8,0 mm) movement at the middle of the belt span with 15 lb. (66 N•m) of force.

Tighten the adjustment bolt and mounting bolt.

Lower the operator cab.

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LUBRICATION OF THE BOBCAT LOADER

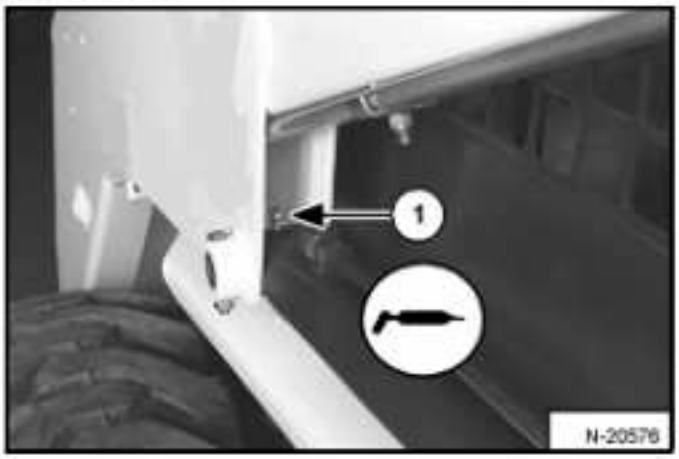
Lubricate the loader as specified in the SERVICE SCHEDULE for the best performance of the loader. (See SERVICE SCHEDULE on Page PM-7.)

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

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

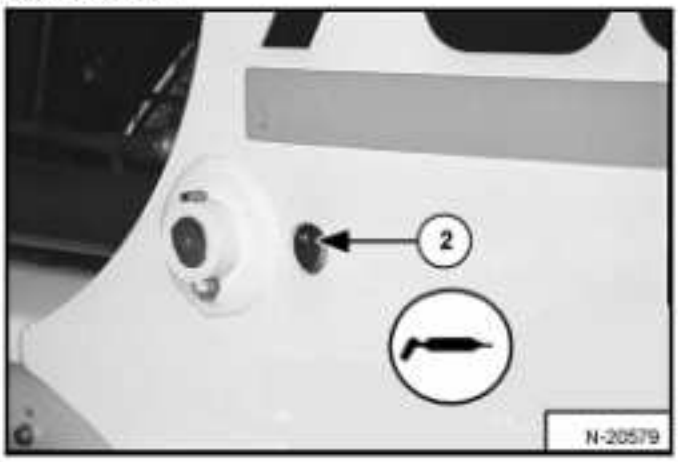
Lubricate the following locations on the loader:

Figure PM-73



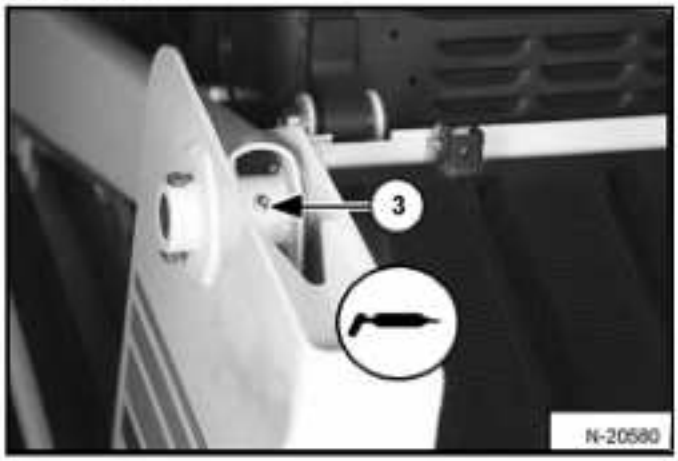
1. Rod End Lift Cylinder (Both Sides) **[Figure PM-73]**.

Figure PM-74



2. Base End Lift Cylinder (Both Sides) **[Figure PM-74]**.

Figure PM-75



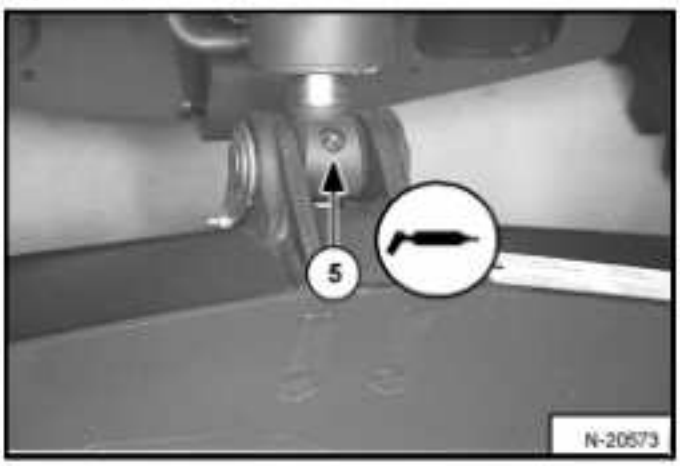
3. Lift Arm Pivot Pin (Both Sides) **[Figure PM-75]**.

Figure PM-76



4. Base End Tilt Cylinder (Both Sides) **[Figure PM-76]**.

Figure PM-77



5. Rod End Tilt Cylinder **[Figure PM-77]**.

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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.

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