853
853H

Bobcat®

Operation & Maintenance Manual

EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)



An IR Ingersoll Rand business
Printed in U.S.A.

6724034 (8-98) Revised (6-00)

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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
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B-1651 LOT
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

REGULAR MAINTENANCE ITEMS V

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SERIAL NUMBER LOCATIONS VII

LOADER SERIAL NUMBER VII

ENGINE SERIAL NUMBER VII

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BOBCAT LOADER IDENTIFICATION VIII

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HYDRAULIC CONTROLS

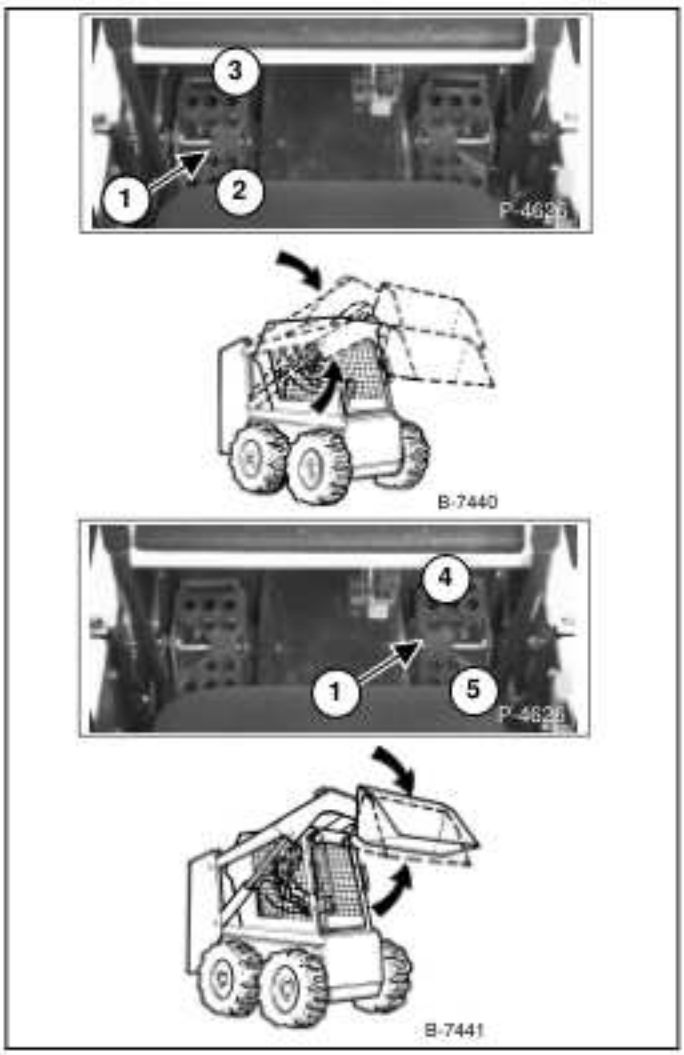
Foot Pedals

⚠ WARNING

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

W-2002-1285

Figure OI-15



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

Two foot pedals (Item 1) **[Figure OI-15]** control the hydraulic cylinders for the lift and tilt functions.

Lift Arm Operation

The left pedal controls the lift arms. Push the bottom (heel) of the pedal (Item 2) **[Figure OI-15]** to raise the lift arm.

Push on the top (toe) of the pedal (Item 3) **[Figure OI-15]** to lower the lift arms.

Lift Arm Float Position

Push the top (toe) (Item 3) **[Figure OI-15]** of the pedal all the way forward until it locks into *detent* (float).

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

Tilt Operation

The right pedal controls the movement of the bucket. Push the top (toe) (Item 4) **[Figure OI-15]** of the pedal to tilt the bucket forward.

Push the bottom (heel) of the pedal (Item 5) **[Figure OI-15]** to tilt the bucket backward.

Bucket Position Valve Operation (Optional)

The function of the bucket position valve is to keep the bucket in the same approximate position it is placed in, prior to the upward lift cycle.

Bucket positioning functions automatically during the upward lift cycle only.

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LUBRICATING THE BOBCAT LOADER

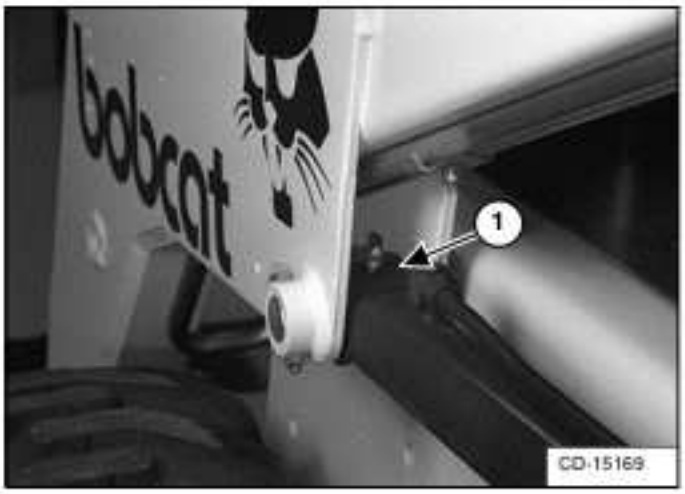
Lubricate the loader as specified for the best performance of the loader (See SERVICE SCHEDULE on Page PM-5).

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

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

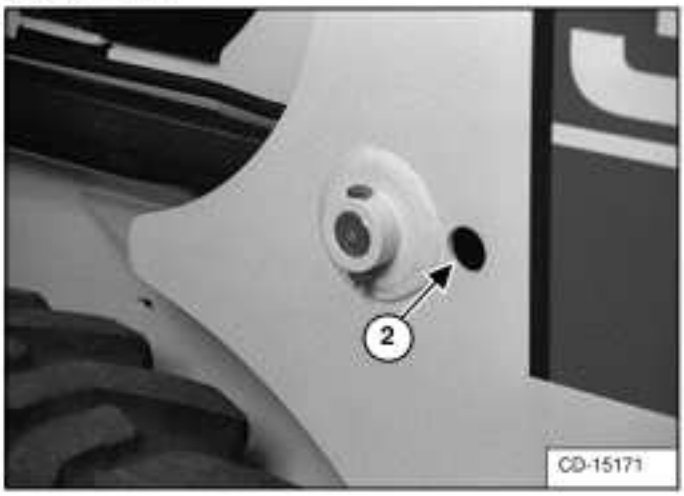
Lubricate the following locations on the loader:

Figure PM-73



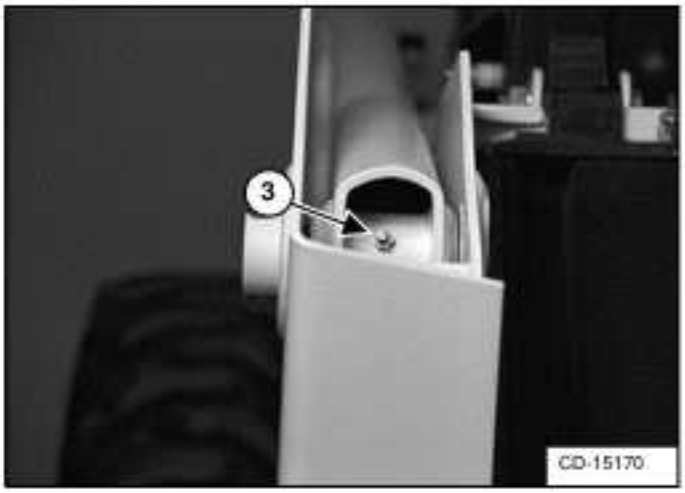
1. Rod End Lift Cylinder (Both Sides) **[Figure PM-73]**.

Figure PM-74



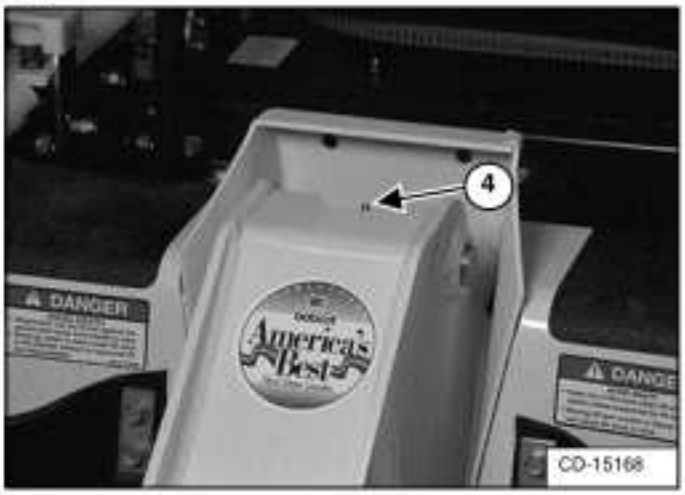
2. Base End Lift Cylinder (Both Sides) **[Figure PM-74]**.

Figure PM-75



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

Figure PM-76



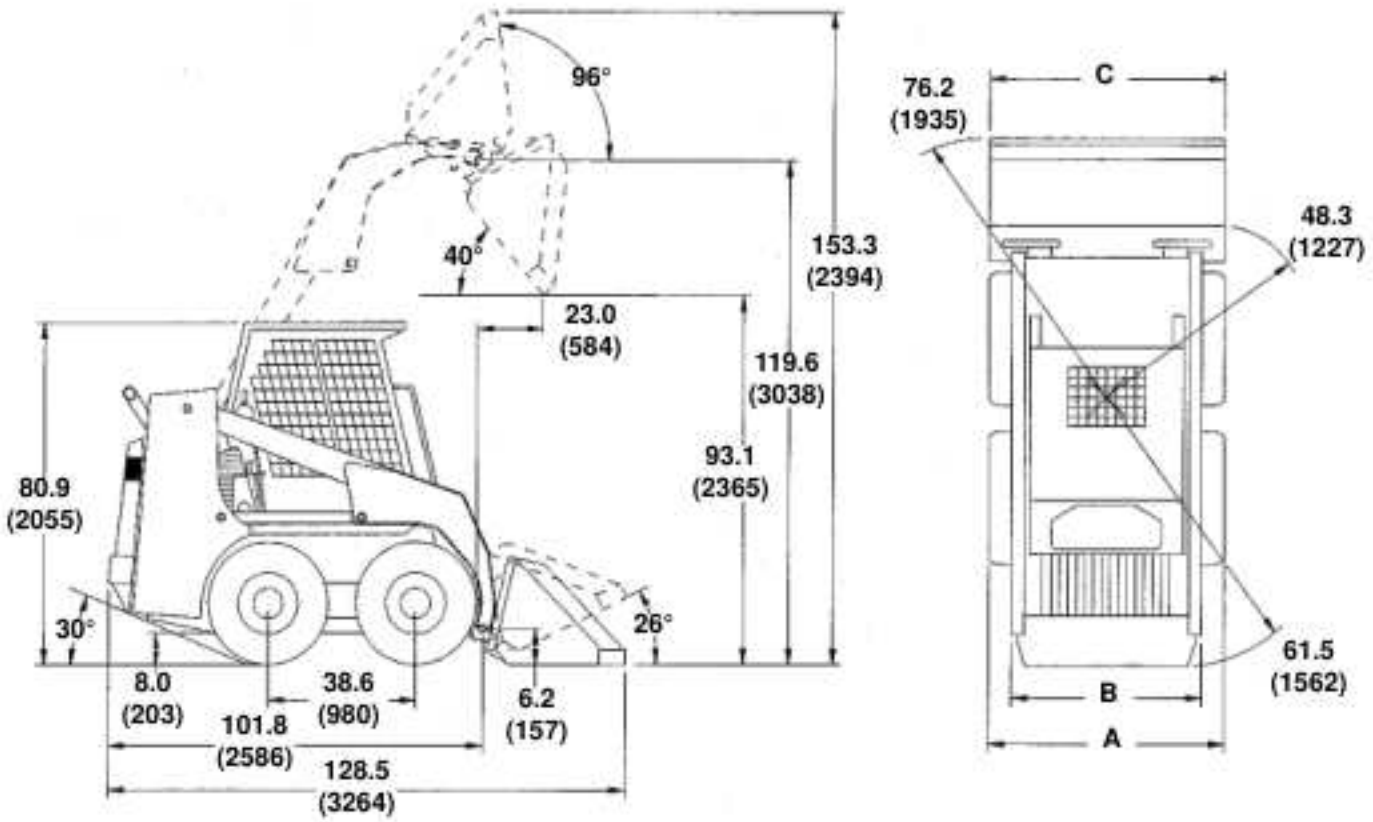
4. Base End Tilt Cylinder (Both Sides) **[Figure PM-76]**.

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LOADER SPECIFICATIONS

Machine Dimensions

- Dimensions are given for loader equipped with standard tires and dirt bucket and may vary with other bucket types. All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specification conform to SAE or ISO standards and are subject to change without notice.



A 8.25 - 15 TIRES - 60.9 in. (1547 mm)
12 - 16.5 TIRES - 66.0 (1676 mm)

B 8.25 - 15 TIRES - 51.8 in. (1316 mm)
12 - 16.5 TIRES - 56.0 (1422 mm)

C 60 in BUCKET WIDTH - 61.5 in. (1562 mm)
66 in. BUCKET WIDTH - 68.1 in. (1731 mm)

MC-1113

Changes of structure or weight distribution of the loader can cause changes in control and steering response and can cause failure of the loader parts.

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BEFORE OPERATING THE BOBCAT LOADER

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 Manual.

SAFE OPERATION NEEDS A QUALIFIED OPERATOR*
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 CONDTIONS

- 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 SAFETY INSTRUCTIONS 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.
- For an operator be qulified, he must not use drugs or alcoholic drinks which impair his alertness or coordination while working. An operator who is taking presciption drugs must ge medical advice to determine if he can safely operate a machine.

S102-0400

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