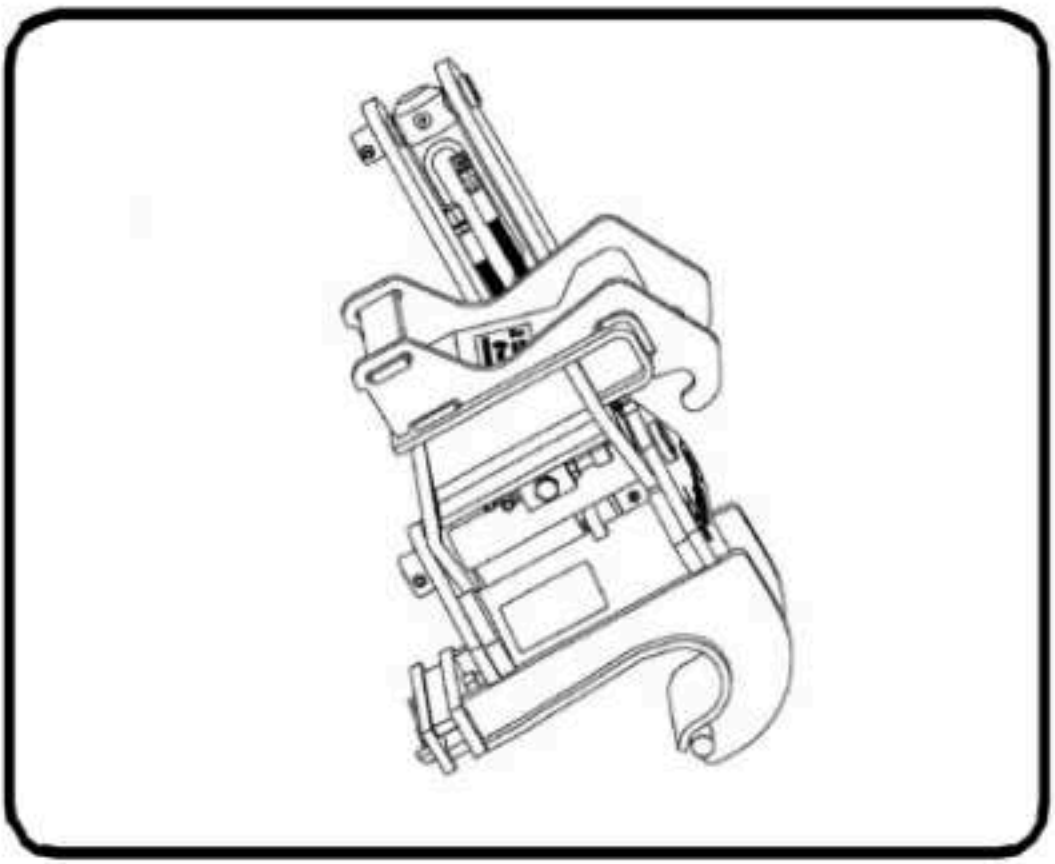
Bobcat®

Operation & Maintenance Manual

Hydra-Tilt™

(Hydra-Tilt) S/N 857800101 & Above



6901173 (3-10) Revised (6-11) (4)

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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat Hydra-Tilt attachment in the spaces below. Always use these numbers when referring to your Bobcat Hydra-Tilt.

Hydra-Tilt Serial Number _____

NOTES:

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128
UNITED STATES OF AMERICA

Doosan Benelux SA
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 Bobcat Hydra-Tilt attachment. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT HYDRA-TILT. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your Bobcat Hydra-tilt.

BOBCAT COMPANY IS IS0 9001 CERTIFIED 5

SERIAL NUMBER LOCATION 7
Attachment Serial Number 7

DELIVERY REPORT 7

ATTACHMENT IDENTIFICATION 8

FEATURES AND ACCESSORIES 9
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OPERATING PROCEDURE WITH EXCAVATORS (CONT'D)

Operation With The Excavator

Operation With The Hydra-Tilt

Read and understand the attachment's Operation & Maintenance Manual and the excavator's Operation & Maintenance Manual prior to installing or using any attachment.

Enter the excavator. (See Entering And Exiting The Excavator on Page 24.) Start the engine.

Run the engine at low idle speed to warm the engine and hydraulic system before operating the excavator.

IMPORTANT

Machines warmed up with moderate engine speed and light load have longer life.

I-2015-0284

Raise the boom to the travel position. (See the excavator's Operation & Maintenance Manual for more detailed information.)

Drive the excavator and attachment to the work area.

When driving the excavator and attachment to the worksite or operating on public roads, on slopes or near water. (See the excavator's Operation & Maintenance Manual and Operator's Handbook to correctly operate the excavator.)

When operating on a public road or highway, always follow local regulation. For example: Slow Moving Vehicle (SMV) emblem or directional signals and hazard / flasher lights may be required.

⚠ WARNING

Keep all bystanders 6 m (20 ft) away from equipment when operating. Contact with moving parts, a trench cave-in or flying objects can cause injury or death.

W-2119-0910

Inspect the work area for unsafe conditions before operating the hydra-tilt.

NOTE: Look for sharp drop-offs, rough terrain and underground utilities (gas, water, sewer, irrigation, etc.)

Remove objects or other construction material that could damage the excavator or cause personal injury.

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LUBRICATING THE ATTACHMENT

Lubrication Locations

Park the excavator on a flat level surface. Lower the attachment to the ground.

Lower the blade to the ground.

Stop the engine and remove the key.

Relieve the auxiliary hydraulic pressure. (See the excavator's Operation & Maintenance Manual and Operator's Handbook for the correct procedure.)

Exit the machine. (See Entering And Exiting The Excavator on Page 24.)

NOTE: Always use a good quality lithium based grease when lubricating the Hydra-Tilt.

⚠ WARNING

AVOID INJURY OR DEATH

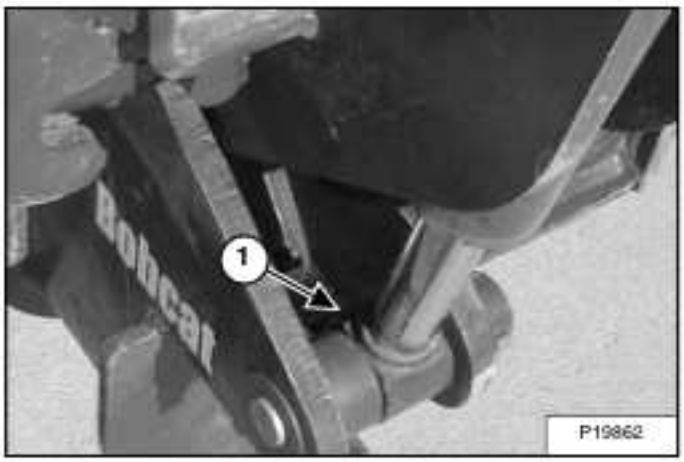
Wear safety glasses to prevent eye injury when any of the following conditions exist:

- **When fluids are under pressure.**
- **Flying debris or loose material is present.**
- **Engine is running.**
- **Tools are being used.**

W-2019-0907

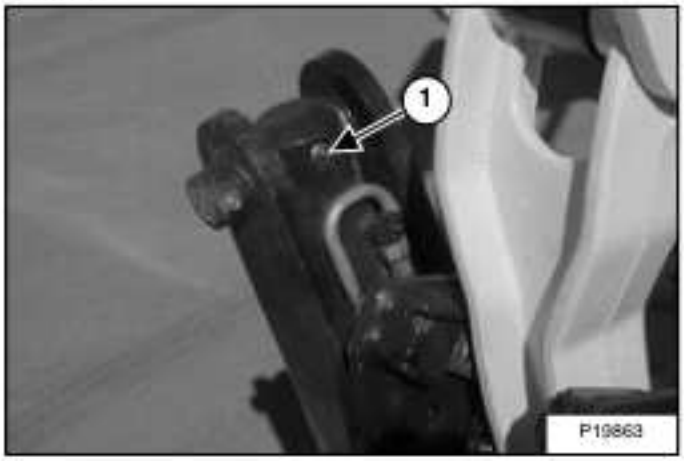
Lubricate the following locations every 8 - 10 hours. Apply grease until clean grease is visible around the joints.

Figure 75



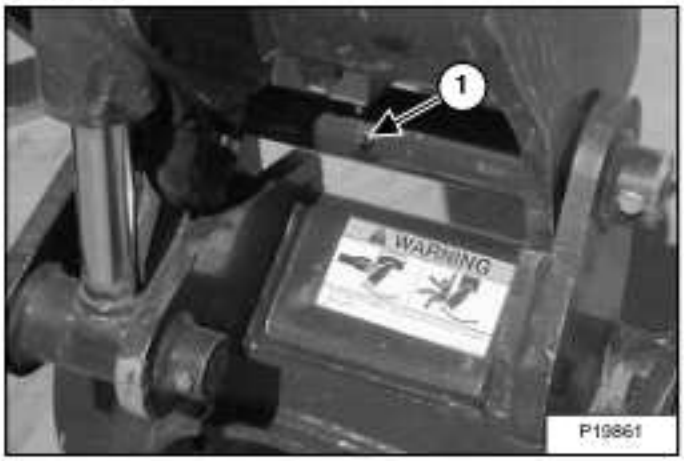
Grease the cylinder rod end fitting (Item 1) **[Figure 75]**.

Figure 76



Grease the cylinder base end fitting (Item 1) **[Figure 76]**.

Figure 77



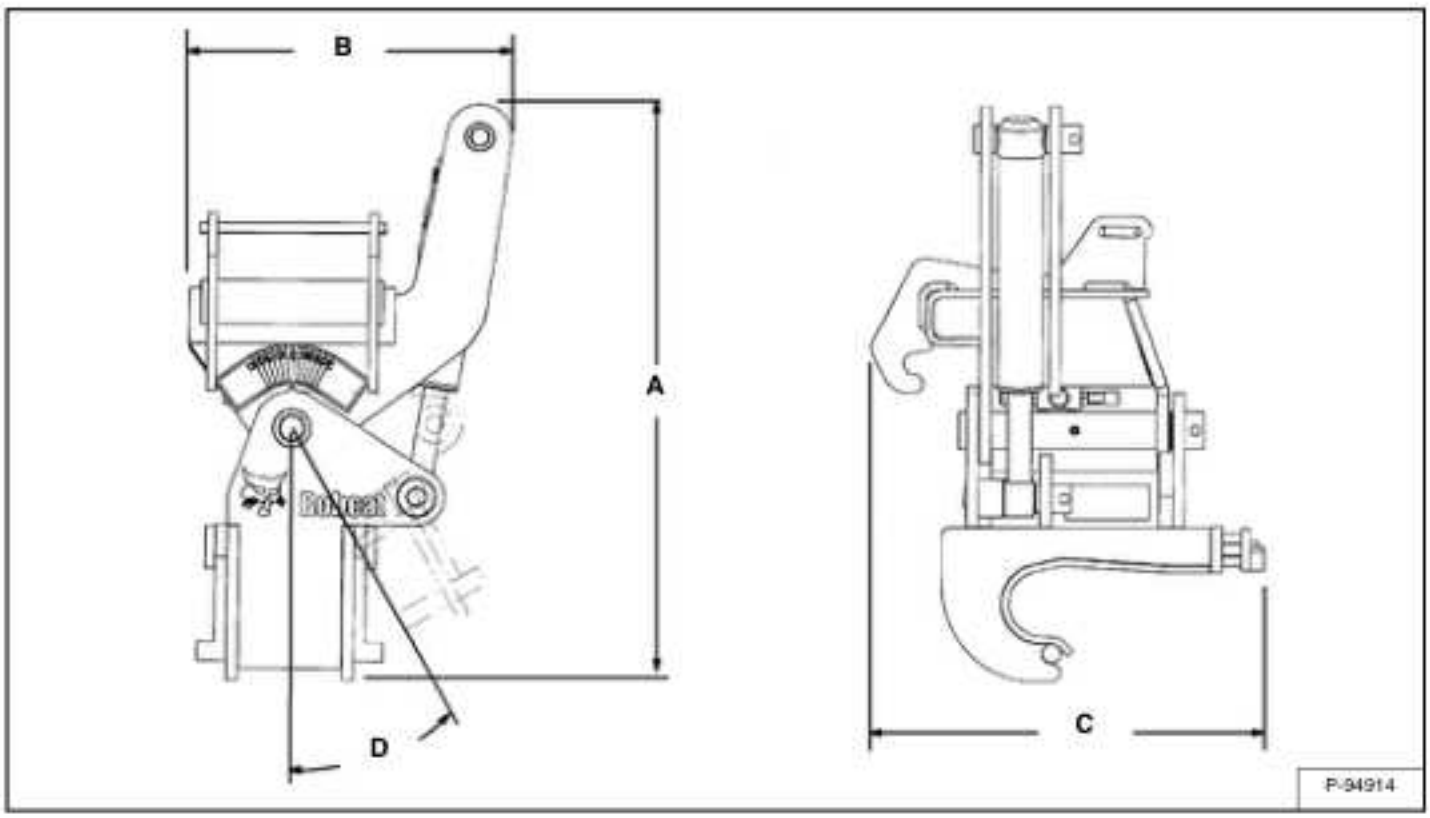
Grease the Hydra-Tilt pivot pin (Item 1) **[Figure 77]**.

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HYDRA-TILT SPECIFICATIONS

Dimensions

- All dimensions are shown in millimeters. Respective imperial dimensions are given in inches enclosed by parentheses.
- Where applicable, specifications conform to **SAE and ISO** standards and are subject to change without notice.



DESCRIPTION	HYDRA-TILT
Overall Length (A)	783 mm (30.81 in)
Overall Length (B)	439 mm (17.28 in)
Overall Length (C)	539 mm (21.22 in)
Rotation (D)	30° Left / 30° Right - 60° Total
Weight	113,4 Kg (250 lb)

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SAFETY INSTRUCTIONS

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 operating the machine. Untrained operators can cause injury or death.

W-2001-0502

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284

DANGER

The signal word DANGER on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.

D-1002-1107

WARNING

The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

W-2044-1107

The Bobcat machine 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 and the attachment.

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.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the machine load capacities. Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of 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 *Call Before You Dig* section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment, hearing protection, Special Applications Kits or a Front Window Guard are required for some work. See your Bobcat dealer about Bobcat safety equipment for your machine.

SI ATT-0511

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