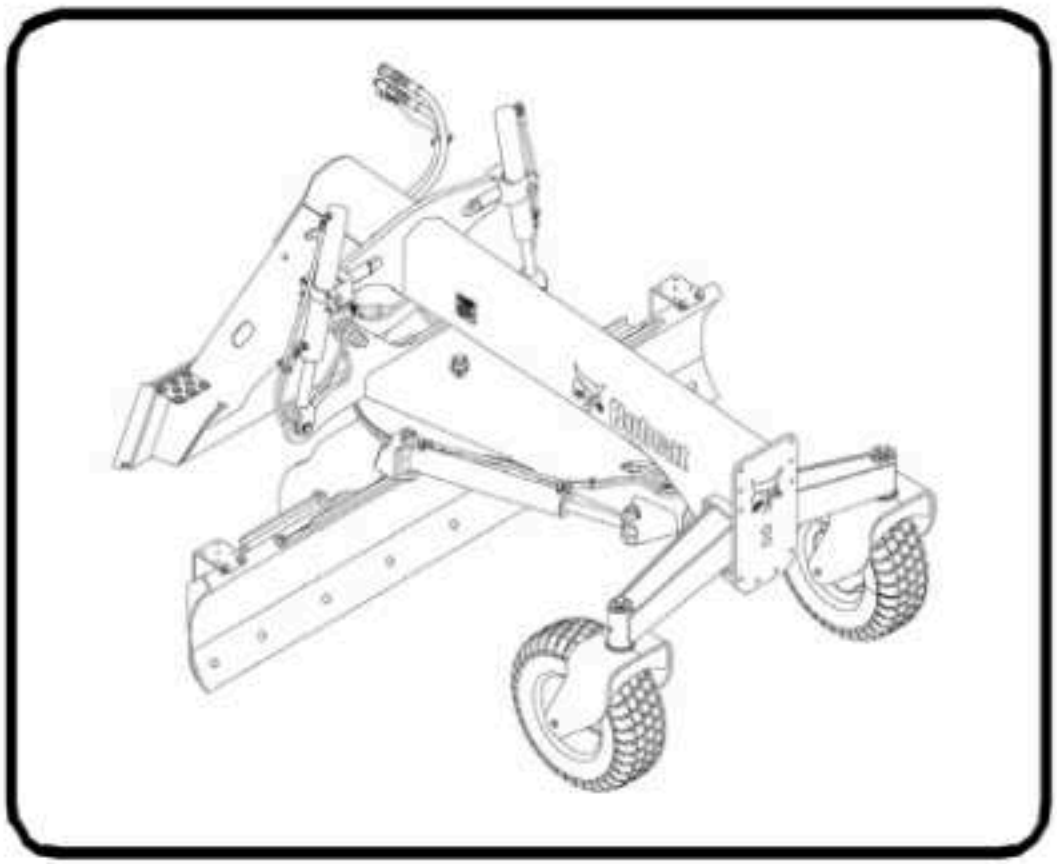
Bobcat®

Operation & Maintenance Manual
Grader

(Grader 96) S/N ACW900101 & Above
(Grader 108) S/N AJ2E00101 & Above



6987368 (9-09) Revised (4-11) (2)

Printed in U.S.A.

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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat grader in the spaces below. Always use these numbers when referring to your Bobcat grader.

Grader 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 grader. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT GRADER. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS IS0 9001 CERTIFIED 5

SERIAL NUMBER LOCATION 7
Attachment Serial Number 7

DELIVERY REPORT 7

ATTACHMENT IDENTIFICATION 8

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Operation With The Loader

Operating The Grader Without Laser

Figure 57



Enter the loader. (See Entering And Exiting The Loader on Page 28.)

Start the engine, and release the parking brake.

Operation With Skid Steer Loader (SSL)

Fully lower the boom to the ground. Tilt the Bob-Tach forward until the front wheels of the loader are 50,8 - 101,6 mm (2 - 4 in) off the ground **[Figure 57]**.

Operation With Compact Track Loader (CTL)

Fully lower the boom to the ground. Tilt the Bob-Tach forward so the weight is slightly off the front of the CTL.

This operating position will provide the best grading results.

While moving forward, position the moldboard cutting edge for desired grading. (See Control Functions on Page 37.)

Operating The Grader With Laser - Method 1

Figure 58



Position grader in an area that is at desired grade **[Figure 58]**.

Position moldboard cutting edge on grade.

Operation With Skid Steer Loader (SSL)

Fully lower the boom to the ground. Tilt the Bob-Tach forward until the front wheels of the loader are 50,8 - 101,6 mm (2 - 4 in) off the ground **[Figure 58]**.

Operation With Compact Track Loader (CTL)

Fully lower the boom to the ground. Tilt the Bob-Tach forward so the weight is slightly off the front of the CTL.

Stop the engine and exit the loader. (See Entering And Exiting The Loader on Page 28.)

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LUBRICATING THE ATTACHMENT

Lubrication Locations

Always use a good quality lithium base multi purpose grease when lubricating the attachment. Apply lubricant until extra grease shows.

IMPORTANT

Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

I-2067-0499

⚠ WARNING

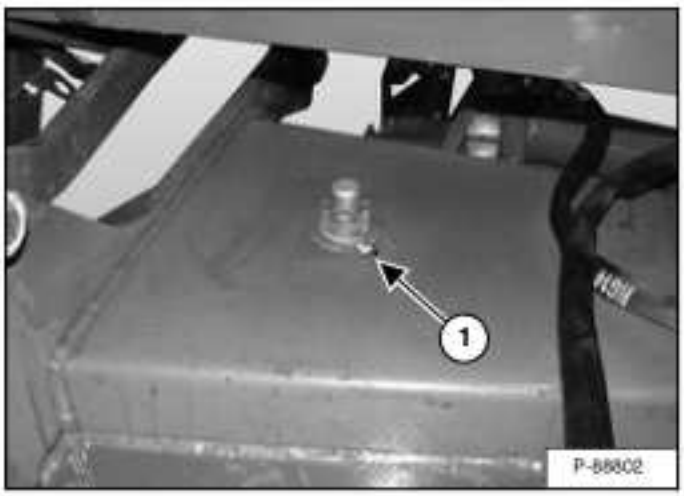
AVOID INJURY OR DEATH

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

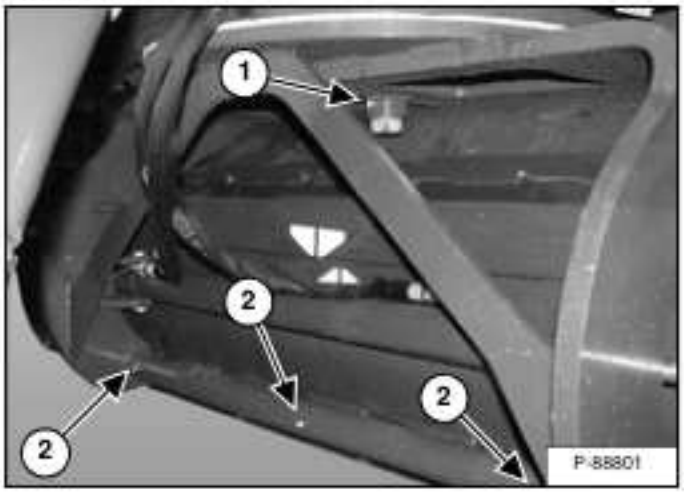
Figure 77



Lubricate the following location (Item 1) **[Figure 77]** every **10 hours** of operation.

1. Turntable upper pivot.

Figure 78

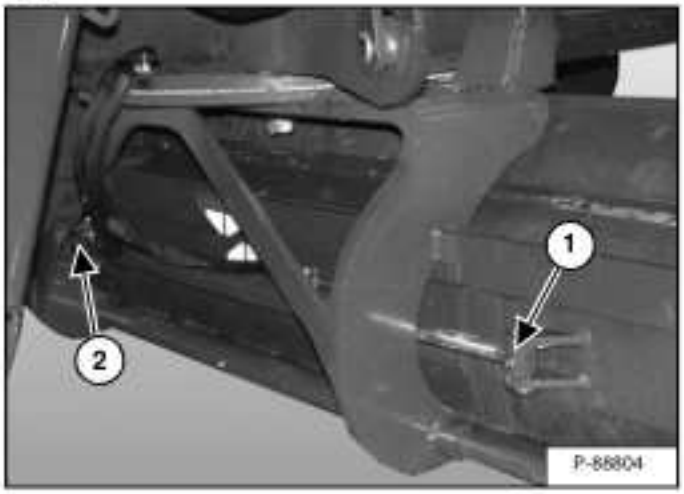


Lubricate the following location (Item 1) **[Figure 78]** every **10 hours** of operation.

Lubricate the following locations (Item 2) **[Figure 78]** **daily**.

1. Moldboard hanger / turntable lower pivot.
2. Moldboard hanger, lower slide tube fittings.

Figure 79



Lubricate the following locations (Items 1 and 2) **[Figure 79]** every **8 - 10 hours** of operation.

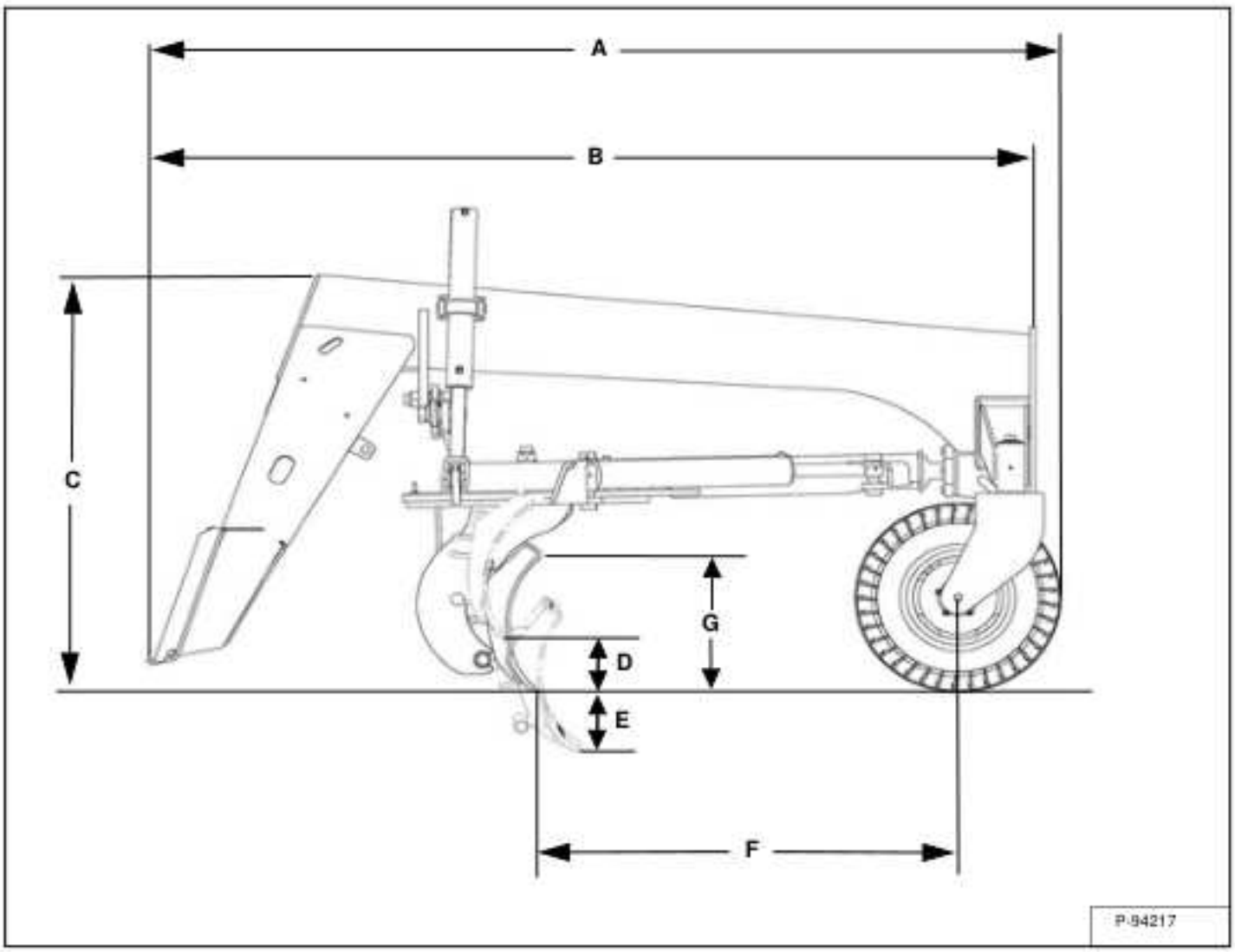
1. Moldboard side shift hydraulic cylinder rod end.
2. Moldboard side shift hydraulic cylinder base end.

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(GRADER 96, GRADER 108) GRADER 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	Grader 96	Grader 108
Length (A)	2642 mm (104 in)	2642 mm (104 in)
Frame Length (B)	2565 mm (101 in)	2565 mm (101 in)
Frame Height (C)	1311 mm (51.6 in)	1311 mm (51.6 in)
Lift Height (D)	173 mm (6.8 in)	173 mm (6.8 in)
Depth of Cut (E)	188 mm (7.4 in)	188 mm (7.4 in)
Blade (Base) (F)	1212 mm (47.7 in)	1212 mm (47.7 in)
Blade Height (G)	432 mm (17 in)	432 mm (17 in)

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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-0509

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