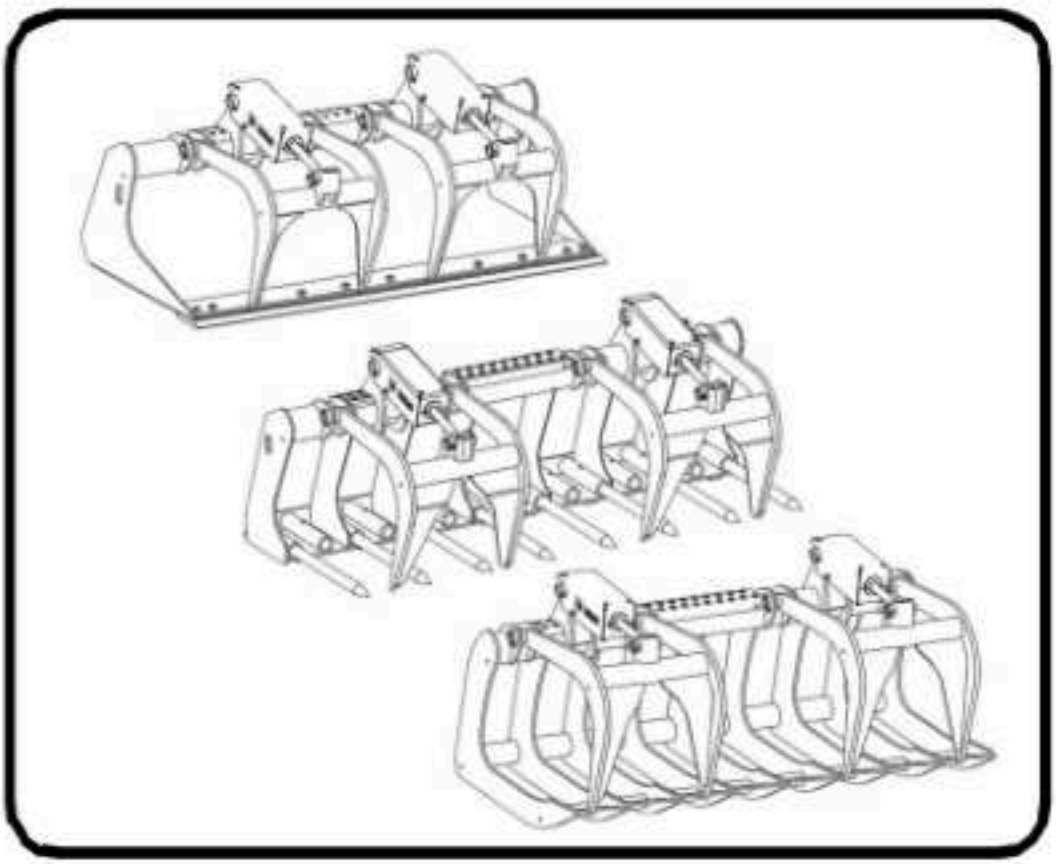
Bobcat

Operation & Maintenance Manual
Industrial and Root Grapple

Industrial Bucket Grapple
(GRPL 62 INDL BKT) S/N AF0S00101 & Above
(GRPL 68 INDL BKT) S/N AF0R00101 & Above
(GRPL 74 INDL BKT) S/N AF0H00101 & Above
(GRPL 80 INDL BKT) S/N AF0P00101 & Above

Industrial Fork Grapple
(GRPL 66 INDL FORK) S/N AF0U00101 & Above
(GRPL 78 INDL FORK) S/N AEDF00101 & Above

Root Grapple
(GRAPPLE 66 ROOT) S/N AF0T00101 & Above
(GRAPPLE 72 ROOT) S/N AE6H00101 & Above
(GRAPPLE 82 ROOT) S/N AF0N00101 & Above



6987210 (10-10) Revised (3-11) (2)

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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat root / industrial grapple in the spaces below. Always use these numbers when referring to your Bobcat root / industrial grapple.

Root / Industrial Grapple 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 grapple. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT GRAPPLE. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS IS0 9001 CERTIFIED 5

SERIAL NUMBER LOCATION 6
- Attachment Serial Number 6

DELIVERY REPORT 6

ATTACHMENT IDENTIFICATION 7
- Industrial Bucket Grapple 7
- Industrial Fork Grapple 8
- Root Grapple 9

FEATURES AND ACCESSORIES 10
- Standard Items 10
- Options And Accessories 10
- Special Applications Kit For Loaders 10

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Installation (Cont'd)

Hand Lever Bob-Tach (Cont'd)

⚠ WARNING

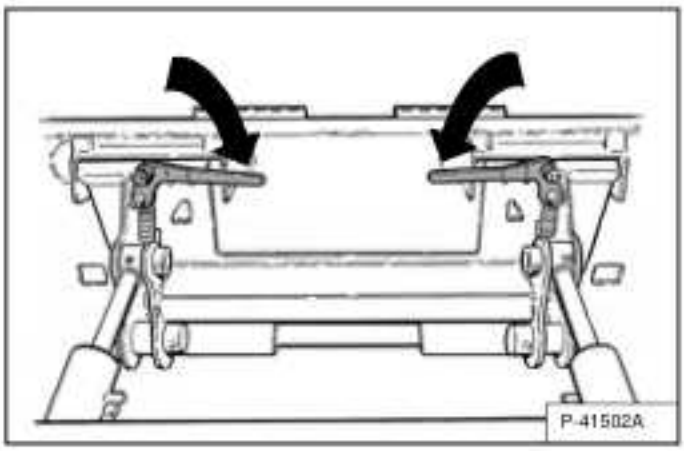
Before you leave the operator's position:

- **Put the travel Direction Control Lever and the Joystick in neutral.**
- **Engage the parking brake.**
- **Retract and lower the boom and attachment flat on the ground.**
- **Stop the engine. Raise the restraint bar (if equipped).**

SEE THE MACHINE OPERATION & MAINTENANCE MANUAL FOR MORE INFORMATION.

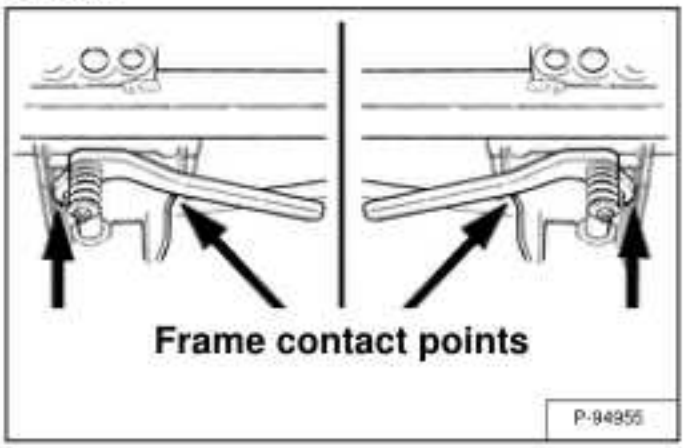
W-2637-0607

Figure 70



Push down on the Bob-Tach levers until they are fully engaged in the locked position **[Figure 70]** (wedges fully extended through the attachment mounting frame holes).

Figure 71



Both levers must contact the frame as shown when locked **[Figure 71]**.

If both levers do not engage in the locked position, see your Bobcat dealer for maintenance.

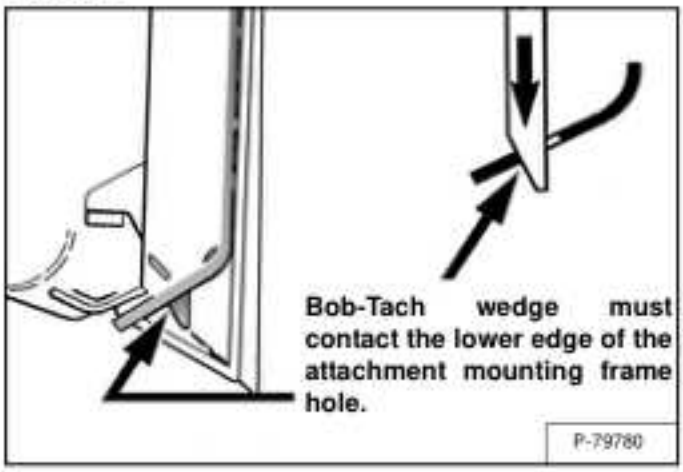
⚠ WARNING

AVOID INJURY OR DEATH

The Bob-Tach wedges must extend through the holes in the attachment mounting frame. Levers must be fully down and locked. Failure to secure wedges can allow attachment to come off.

W-2715-0208

Figure 72



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach **[Figure 72]**.

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LUBRICATING THE ATTACHMENT

Lubrication Locations

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

⚠ WARNING

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

- **Pressurized fluids and springs or other stored energy components.**
- **Flying debris or loose material is present.**
- **Engine is running.**
- **Tools are being used.**

W-2505-0604

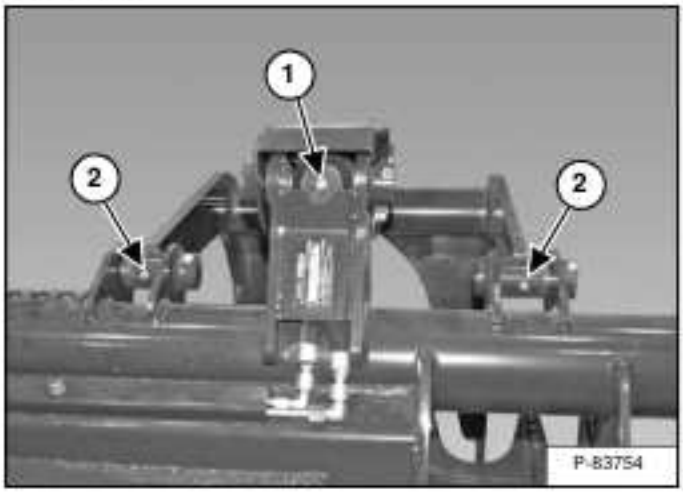
IMPORTANT

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

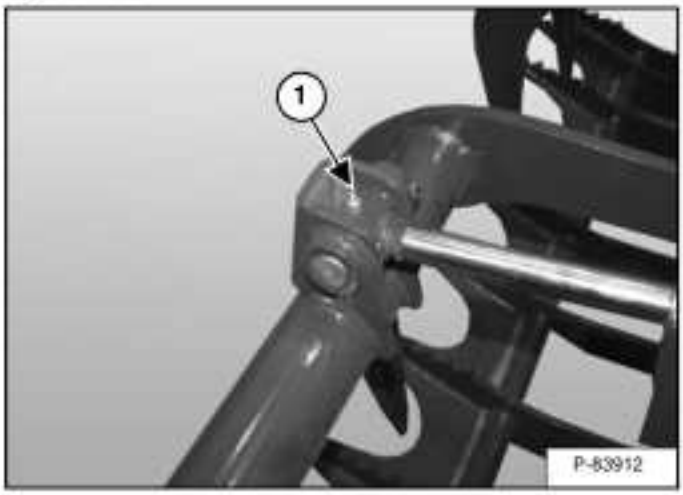
Lubricate the grease fittings, EVERY 8 - 10 hours.

Figure 154



Apply grease to the cylinder base end grease fitting (Item 1) and to the grapple pivot grease fittings (Item 2) **[Figure 154]** (both sides).

Figure 155



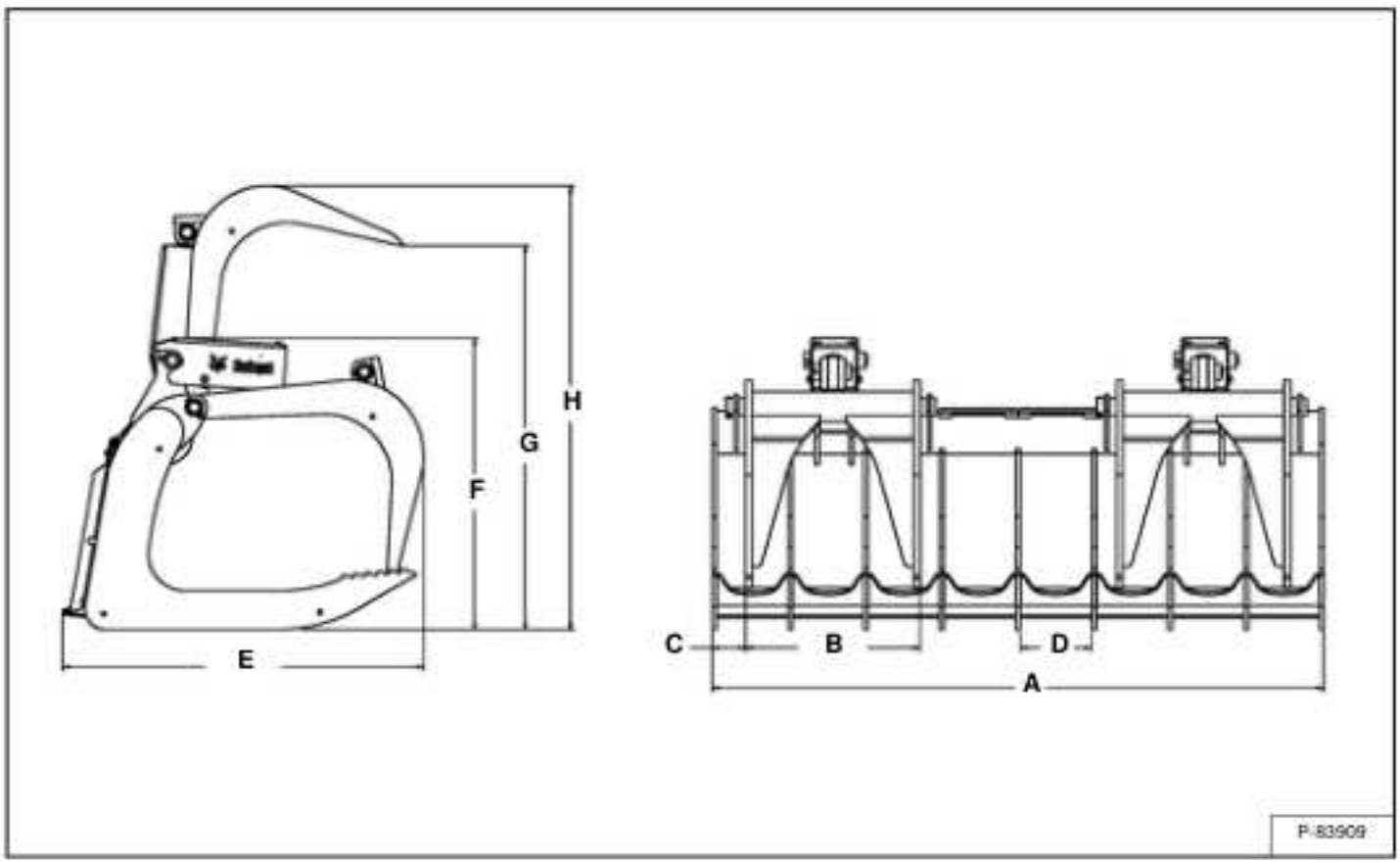
Apply grease to the cylinder rod end grease fittings (Item 1) **[Figure 155]** (both sides).

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INDUSTRIAL / ROOT GRAPPLE SPECIFICATIONS (CONT'D)

Dimensions - Root Grapple

- 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	GRAPPLE 66 ROOT	GRAPPLE 72 ROOT	GRAPPLE 82 ROOT
Overall Width Of Grapple (Dim A)	1676,4 mm (66.0 in)	1841,5 mm (72.5 in)	2095,5 mm (82.5 in)
Overall Width Of Grapple Forks (Dim B)	522,5 mm (20.57 in)	522,5 mm (20.57 in)	522,5 mm (20.57 in)
Inset Of Forks (Dim C)	102,2 mm (4.03 in)	102,2 mm (4.03 in)	229,4 mm (9.03 in)
Width Of Teeth (Dim D)	225,0 mm (8.86 in)	215,9 mm (8.50 in)	215,9 mm (8.50 in)
Overall Depth Of Grapple (Dim E)	1087,6 mm (42.82 in)	1087,6 mm (42.82 in)	1087,6 mm (42.82 in)
Closed Height Of Grapple (Dim F)	872,6 mm (34.35 in)	872,6 mm (34.35 in)	872,6 mm (34.35 in)
Inside Height Of Grapple (Dim G)	1147,7 mm (45.18 in)	1147,7 mm (45.18 in)	1147,7 mm (45.18 in)
Opened Height Of Grapple (Dim H)	1327,2 mm (52.25 in)	1327,2 mm (52.25 in)	1327,2 mm (52.25 in)
Number Of Grapple Forks	2	2	2
Weight	436 kg (961 lb)	465 kg (1025 lb)	512 kg (1130 lb)
Cylinder Stroke	203,2 mm (8.0 in)	203,2 mm (8.0 in)	203,2 mm (8.0 in)
Cylinder Bore Diameter	63,5 mm (2.5 in)	63,5 mm (2.5 in)	63,5 mm (2.5 in)
Cylinder Rod Diameter	31,8 mm (1.25 in)	31,8 mm (1.25 in)	31,8 mm (1.25 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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