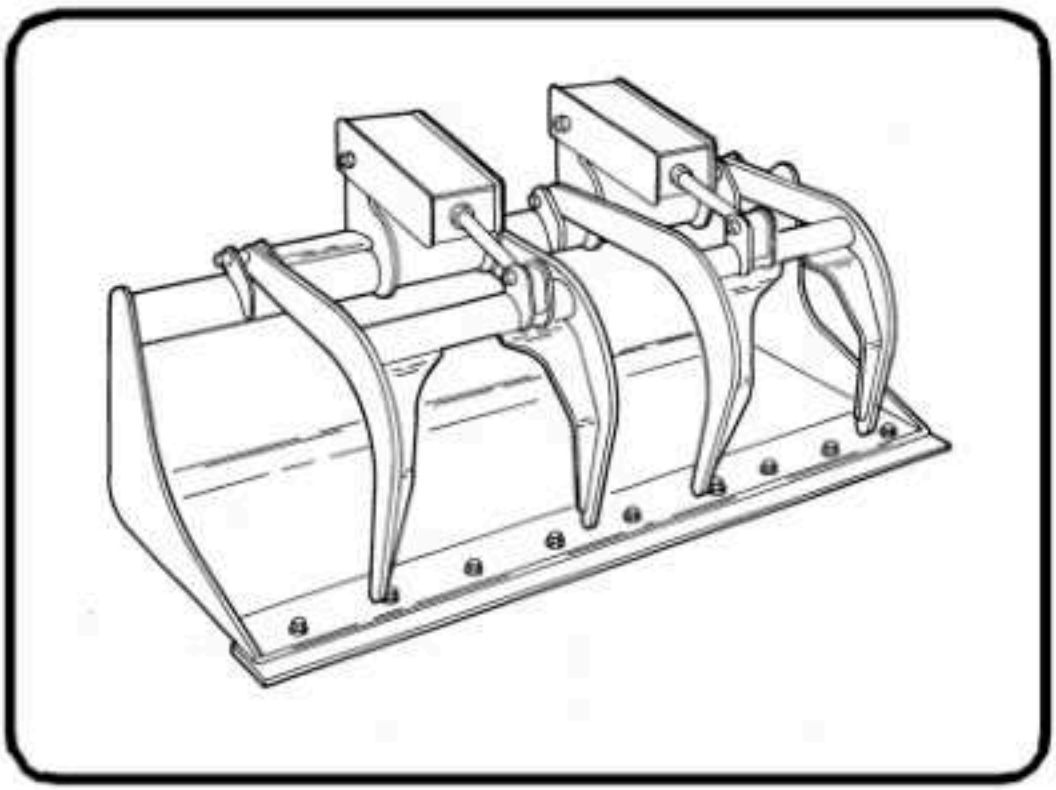
Bobcat®

Operation & Maintenance Manual
Industrial Grapple

(60 in.) S/N 659900101 & Above
(66 in.) S/N 477000101 & Above
(66 in.) S/N 425500101 & Above
(68 in.) S/N 775100101 & Above
(72 in.) S/N 456100101 & Above
(78 in.) S/N 775200101 & Above
(80 in.) S/N 232200101 & Above



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REFERENCE INFORMATION

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

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

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED VII

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Control Functions (Cont'd)

Standard Control Handles

Figure OI-78

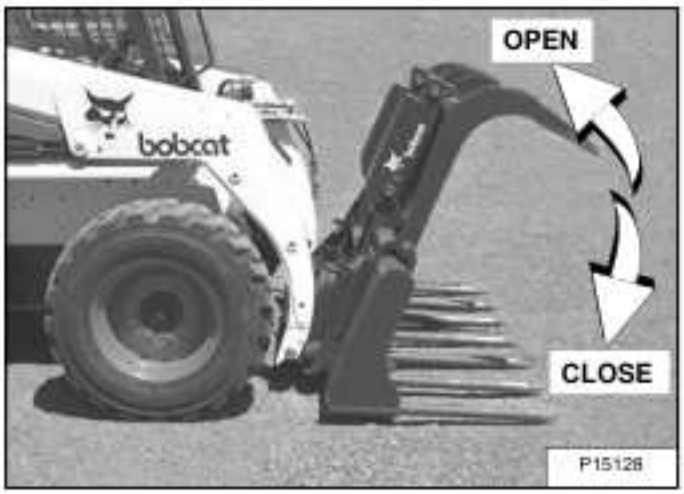
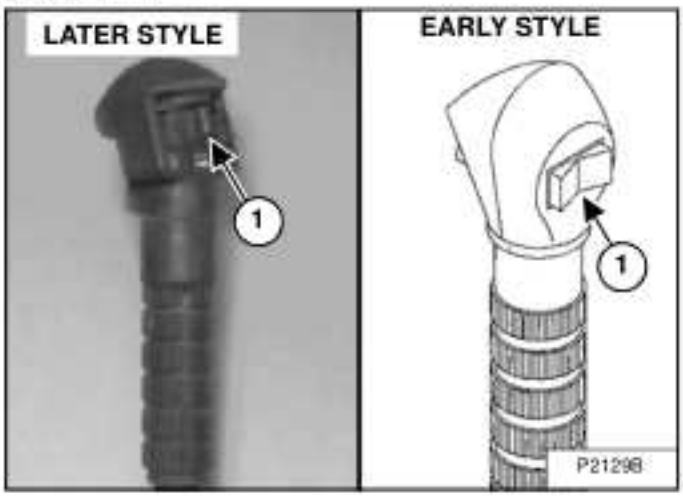


Figure OI-79



To open the industrial grapple **[Figure OI-78]**, push the switch (Item 1) **[Figure OI-79]** (on the right steering lever) to the right.

To close the industrial grapple **[Figure OI-78]**, push the switch (Item 1) **[Figure OI-79]** (on the right steering lever) to the left.

NOTE: If the bucket does not function as explained above, stop the engine. Relieve the auxiliary hydraulic pressure. Exit the loader and switch the couplers on the hoses.

Removal

⚠ WARNING

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

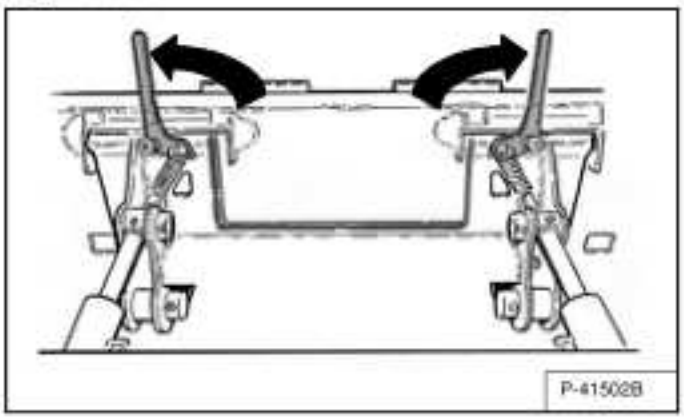
W-2220-0396

Relieve hydraulic pressure. (See the machine's Operation & Maintenance Manual for the correct procedure.)

Disconnect auxiliary hydraulic hoses. (See Hydraulic Quick Couplers on Page OI-46.)

Hand Lever Bob-Tach

Figure OI-80



Pull the Bob-Tach levers all the way up **[Figure OI-80]**.

Move to operator's position and fasten seat belt.

Start the engine and release the parking brake.

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LUBRICATING THE ATTACHMENT

Lubrication Locations

Always use a good quality lithium base multi-purpose grease when lubricating the industrial grapple. 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

Lubricate the grease fittings, EVERY 8-10 hours.

Figure PM-1

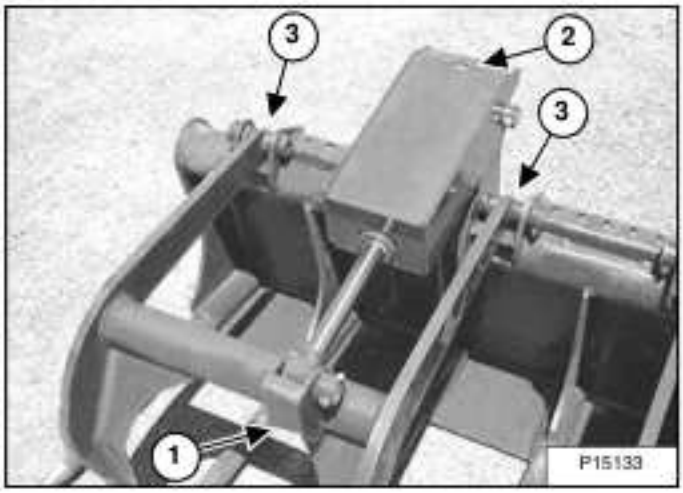
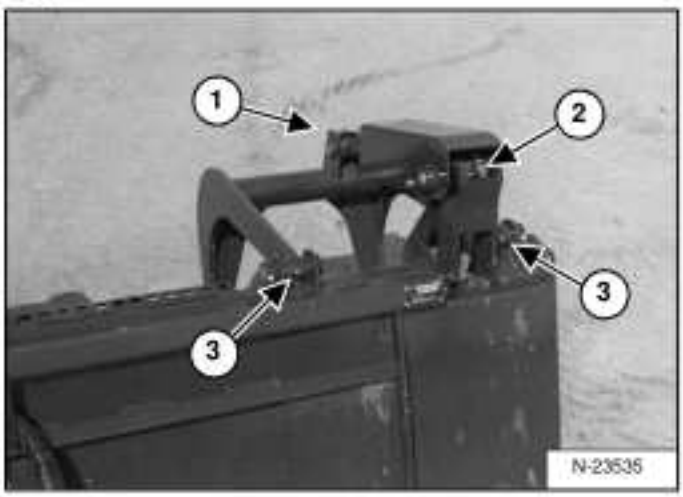


Figure PM-2



Apply grease to the cylinder rod end grease fittings (Item 1) and to the cylinder base end grease fittings (Item 2) **[Figure PM-1]** & **[Figure PM-2]** (both sides).

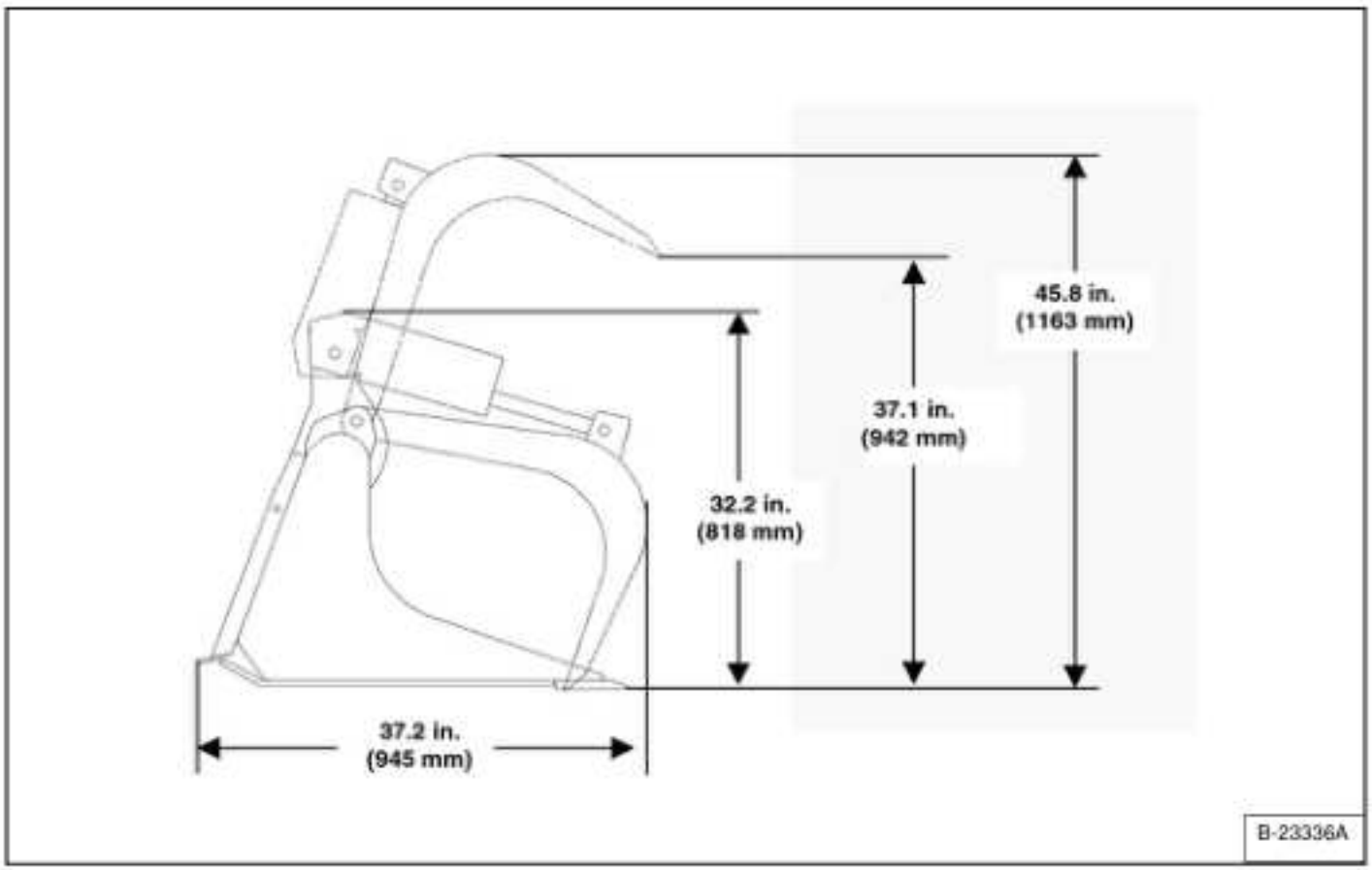
Apply grease to the grapple pivots (Item 3) **[Figure PM-1]** & **[Figure PM-2]** (both sides).

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INDUSTRIAL GRAPPLE ATTACHMENT SPECIFICATIONS (CONT'D)

Dimensions - 60, 66, and 72 Inch Industrial Bucket Grapple

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



Number Of Grapple Teeth	4
Industrial Grapple Overall Width - 60 in. Industrial Grapple Overall Width - 66 in. Industrial Grapple Overall Width - 72 in.	61.7 in. (1567 mm) 61.7 in. (1567 mm) 61.7 in. (1567 mm)
Hydraulic Cylinders Cylinder Diameter Cylinder Rod Diameter Cylinder Stroke	Two Double Acting 2.38 in. (60,5 mm) 1.25 in. (30,5 mm) 8.0 in. (203 mm)
Weight 60 in. Weight 66 in. Weight 72 in.	790 lb. (358 Kg) 845 lb. (383 Kg) 872 lb. (396 Kg)

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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 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

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-0208

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