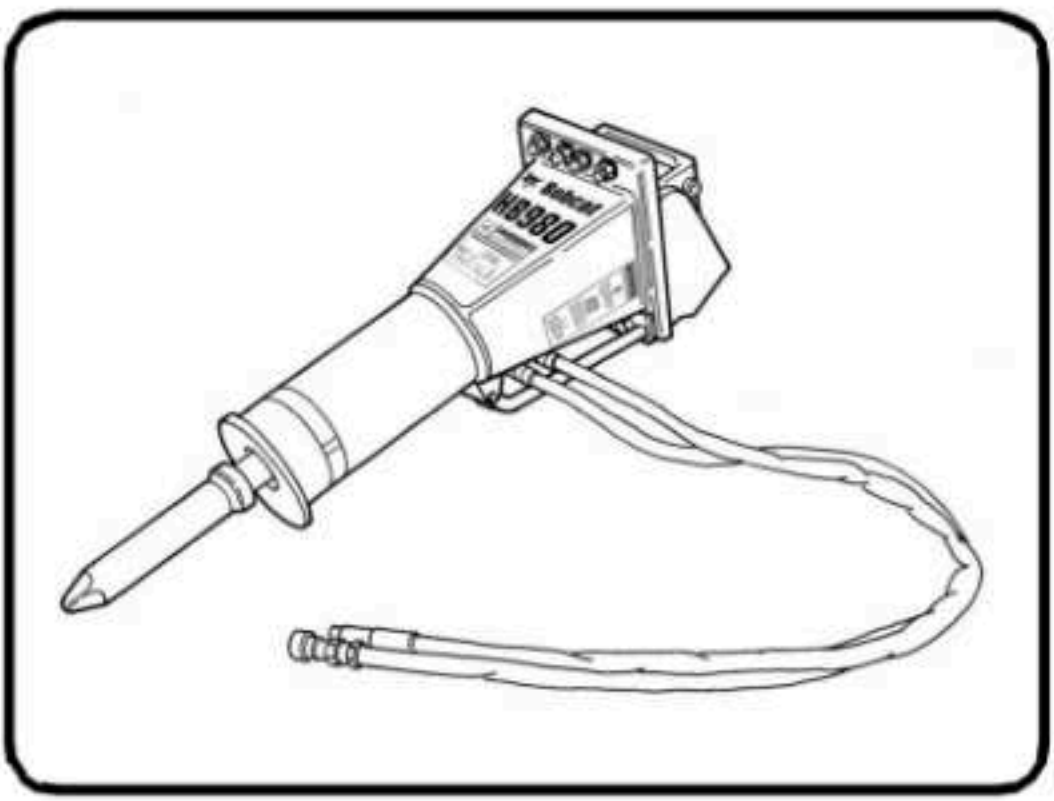
Bobcat®

Operation & Maintenance Manual
HB Series Hydraulic Breaker

(HB280) S/N A5T500101 & Above
(HB680) S/N A00W00101 & Above
(HB880) S/N A00X00101 & Above
(HB980) S/N A00Y00101 & Above
(HB1180) S/N A01R00101 & Above



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REFERENCE INFORMATION

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

Breaker 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 breaker. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT BREAKER. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your Bobcat breaker.

BOBCAT COMPANY IS ISO 9001 CERTIFIED 13

SERIAL NUMBER LOCATION 15
- Attachment Serial Number 15

DELIVERY REPORT 16

ATTACHMENT IDENTIFICATION 17

FEATURES AND ACCESSORIES 19
- Standard Items 19
- Options And Accessories 19
- Available Breaker Bits 19
- Special Applications Kit For Loaders 20
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- Special Applications Kit For Excavators 21

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OPERATING PROCEDURE WITH LOADER BACKHOES (CONT'D)

Control Functions

Engage the auxiliary hydraulics. (See the loader backhoe's Operation & Maintenance Manual and Operator's Handbook for correct procedure.)

NOTE: When using the breaker, pressurize the female coupler only.

Backhoe Auxiliary Hydraulic Controls

Figure 265

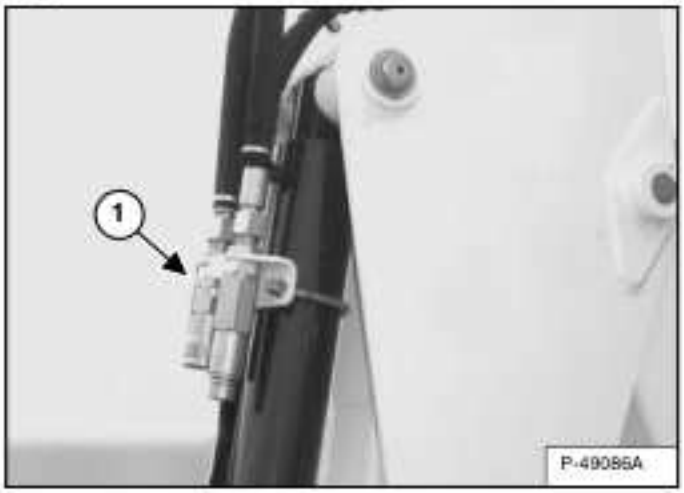
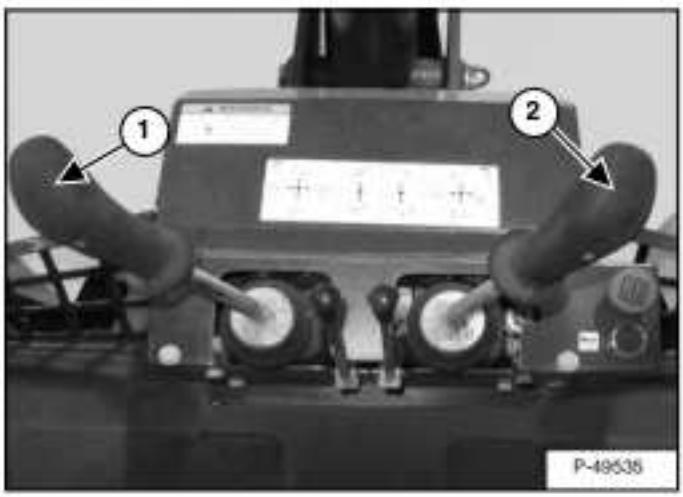


Figure 266



The backhoe auxiliary hydraulic couplers (Item 1) **[Figure 265]** are controlled by the backhoe auxiliary hydraulic control buttons (Item 1 and Item 2) **[Figure 266]** on the backhoe control handles.

Press and hold the right button (Item 2) **[Figure 266]** for hydraulic flow (energizes the female coupler) for breaker operation.

Loader Auxiliary Hydraulic Controls

Figure 267

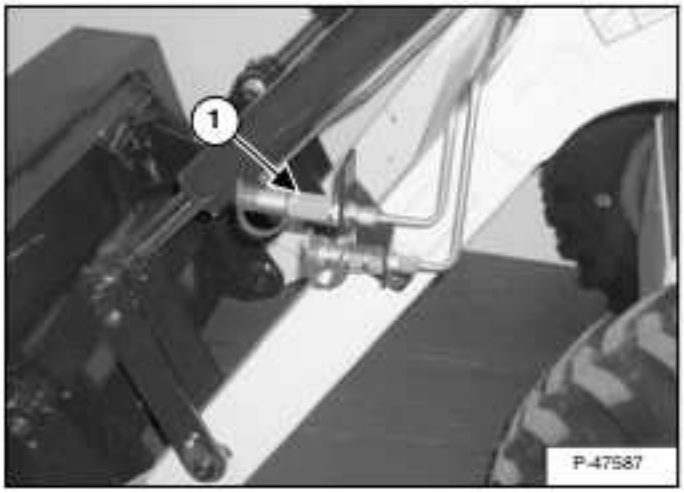
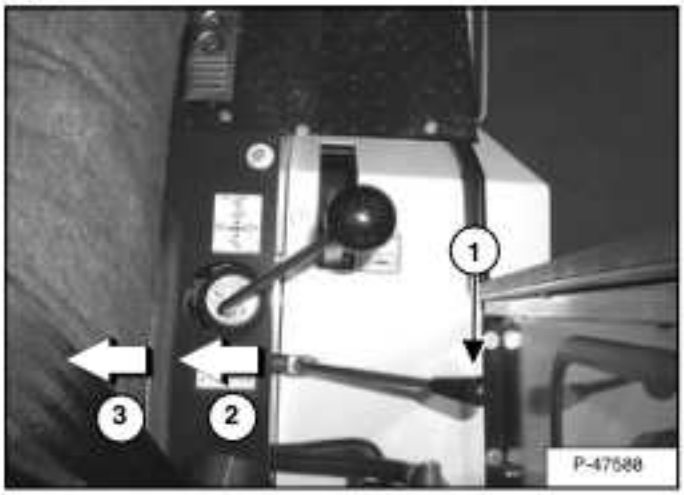


Figure 268



The loader auxiliary hydraulic couplers (Item 1) **[Figure 267]** are controlled by the loader auxiliary hydraulic control lever (Item 1) **[Figure 268]** located on the right side of the operator's seat.

Move the lever in slightly (Item 2) **[Figure 268]** for forward hydraulic flow to the female coupler (pressurizes the female coupler) for breaker operation.

Move the lever all the way in to the detent position (Item 3) **[Figure 268]** to lock the auxiliary hydraulics for continuous hydraulic flow to the front female coupler.

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LUBRICATING THE ATTACHMENT (CONT'D)

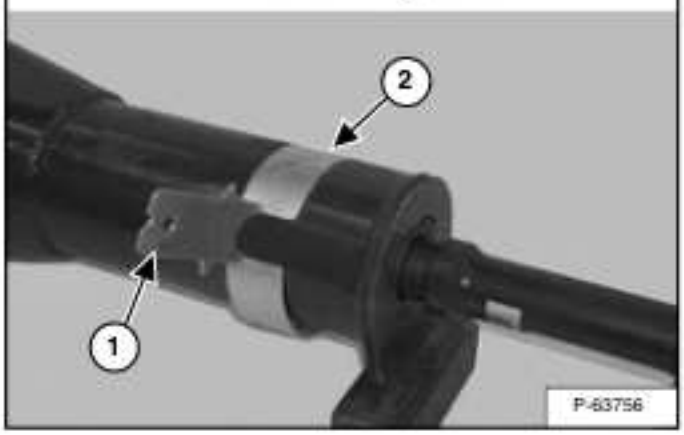
Lubrication Locations (Cont'd)

Always use a good quality lithium base multipurpose grease when lubricating the attachment.

If the tool is not greased at recommended intervals, tool and bushing wear will occur.

Figure 325

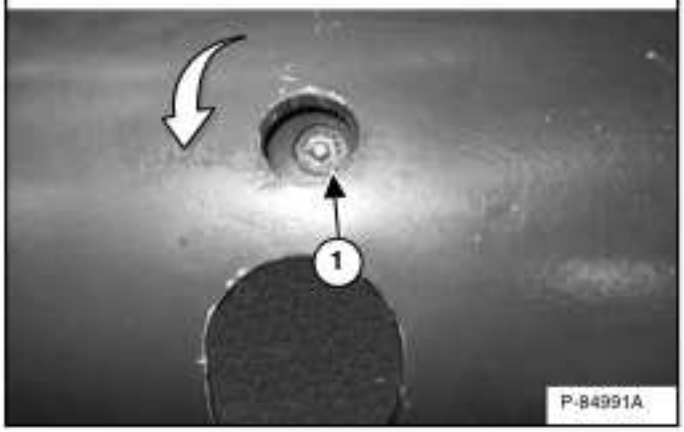
External Retaining Band



Use the maintenance tool (Item 1) to turn the retainer band (Item 2) **[Figure 325]** until the grease fitting is covered to keep out contamination.

Figure 326

Internal Retaining Band



Rotate the tool pin retainer band to access the grease fitting.

Apply grease (5 - 6 pumps) to the grease fitting (Item 1) **[Figure 326]** every 4 hours of operation or sooner if the tool looks dry.

NOTE: Use a good quality lithium based grease. Lower quality grease may melt when hot and reduce the life of the tool and bushing.

Rotate the retainer band to the closed position after greasing.

IMPORTANT

Underwater use of the breaker will cause internal damage. No portion of the breaker may be submerged.

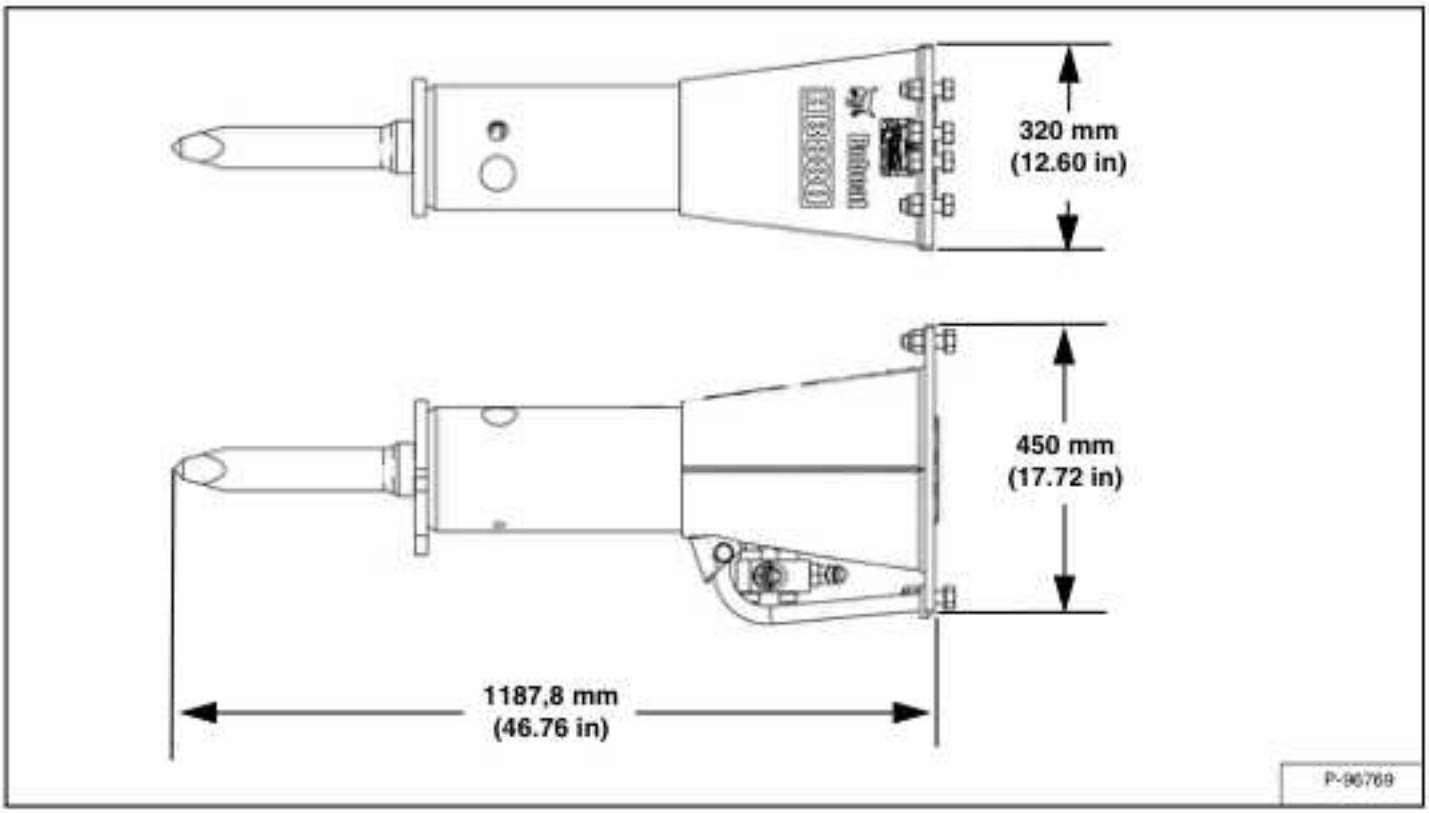
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(HB880) HYDRAULIC BREAKER SPECIFICATIONS

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.



Performance

Breaker Weight	194 kg (427 lb)
Blow Rate	
Soft Ground	755 - 1150 bpm
Hard Ground	860 - 1310 bpm
Operating Pressure	12065 kPa (120,6 bar) (1750 psi)
System Pressure	14823 kPa (148 bar) (2150 psi)
Impact Class	1,334 kN (300 lbf)
CIMA Energy Rating	0,920 kN (207 lbf)
Nitrogen Charge Pressure	3206 kPa (32 bar) (465 psi)
Bit Diameter	65 mm (2.56 in)
Bit Working Length	330 mm (13.0 in)

Hydraulic System

Hydraulic Flow	30 - 65 L/min (7.9 - 17.2 U.S. gpm)

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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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