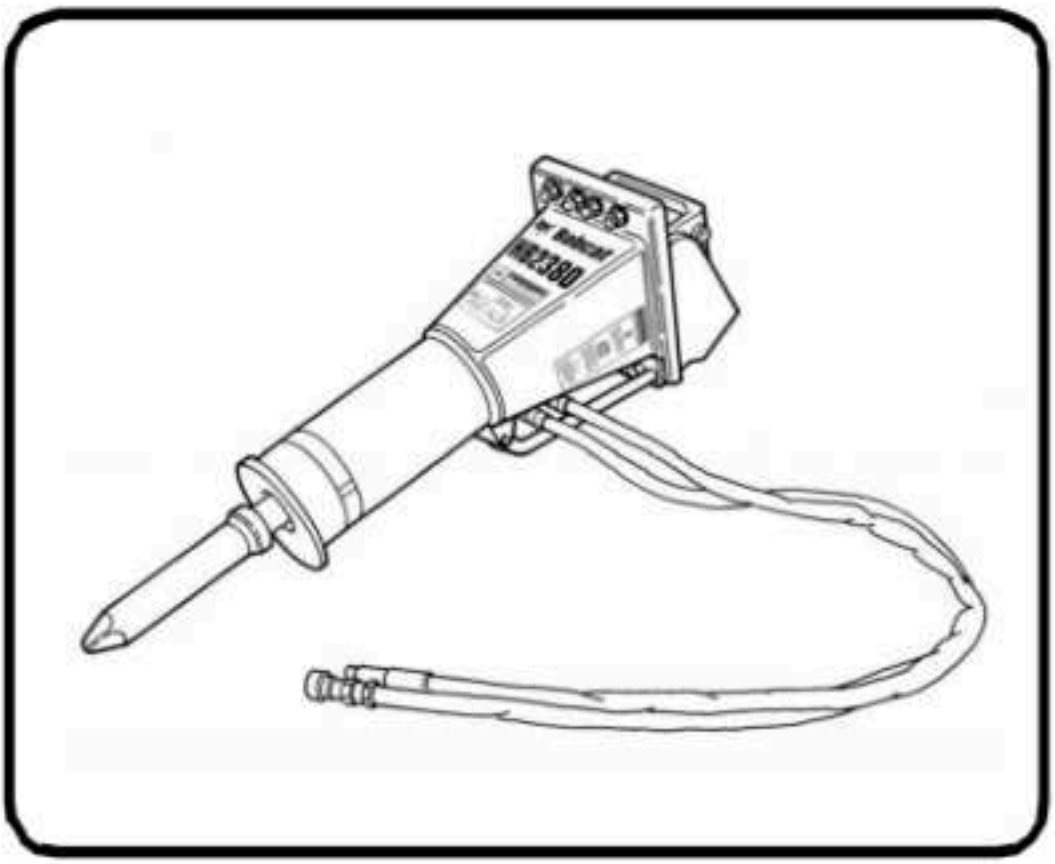
Bobcat®

Operation & Maintenance Manual
Hydraulic Breaker

(HB1380) S/N AC4500101 & Above
(HB2380) S/N A5T600101 & Above



6904928 (6-09) Revised (8-09) (4)

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REFERENCE INFORMATION

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

Breaker Serial Number _____

NOTES:

_____

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

Bobcat Company
P.O. Box 128
Gwinner, ND 58040-0128

Bobcat Company Europe
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 breaker. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BREAKER. If you have any questions, see your Bobcat dealer.

BOBCAT COMPANY IS ISO 9001:2000 CERTIFIED 9

SERIAL NUMBER LOCATIONS 10
Attachment Serial Number 10

DELIVERY REPORT 10

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Falling Object Guard Structure (FOGS) For Excavators 13
Special Applications Kit For Excavators 14

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OPERATING PROCEDURE WITH EXCAVATORS (CONT'D)

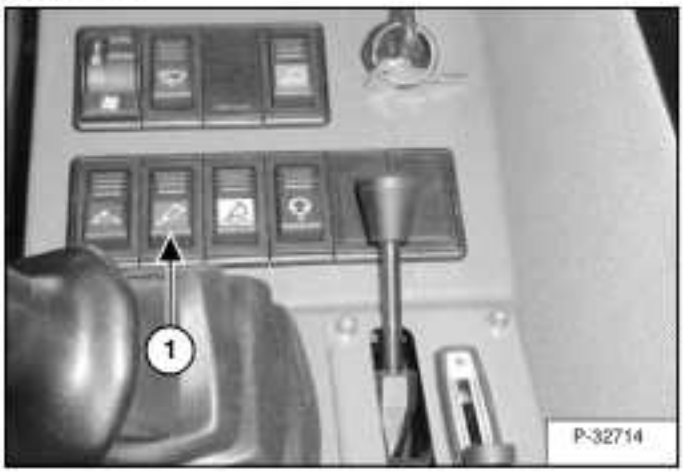
Control Functions

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

NOTE: Auxiliary hydraulic must be activated prior to attachment operation.

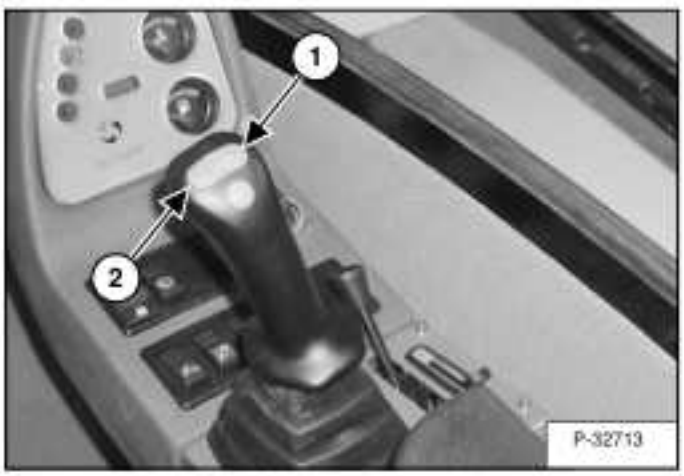
442 Excavator Auxiliary Hydraulics

Figure 119



For proper hydraulic breaker operation, press the switch (Item 1) **[Figure 119]**. The switch will be illuminated. The switch allows full hydraulic flow to the right side coupler for breaker operation.

Figure 120

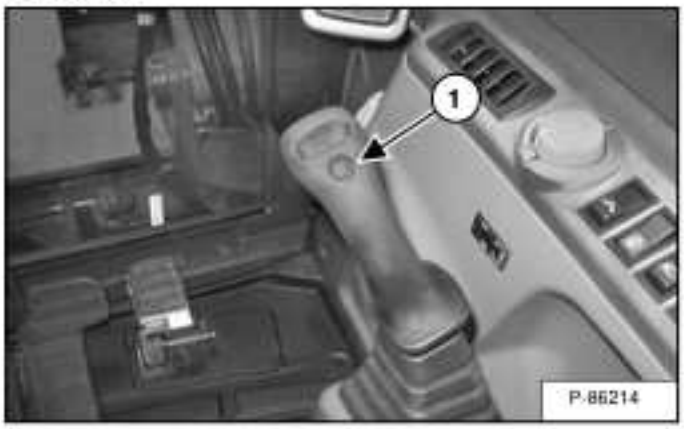


Press and hold the switch (Item 1) **[Figure 120]** to provide hydraulic flow to the hydraulic breaker. Release the switch to stop hydraulic flow.

NOTE: Left side of the switch (Item 2) [Figure 120] is inoperable when the hydraulic breaker operation switch (Item 1) [Figure 119] is activated.

E80 Excavator Auxiliary Hydraulics

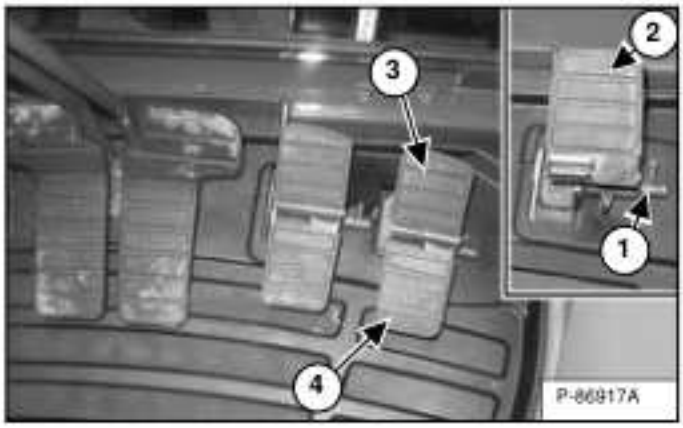
Figure 121



Press the switch (Item 1) **[Figure 121]** on the right joystick to start auger rotation. Press the switch a second time to stop auger rotation.

NOTE: The primary auxiliary hydraulics and the one way flow auxiliary hydraulics use the same auxiliary hydraulic couplers.

Figure 122



Release the pedal lock (Item 1) and pivot the heel of the pedal to the rear (Item 2) **[Figure 122]**.

Push the toe of the pedal (Item 3) to start auger rotation; push the heel of the pedal (Item 4) **[Figure 122]** to reverse auger rotation.

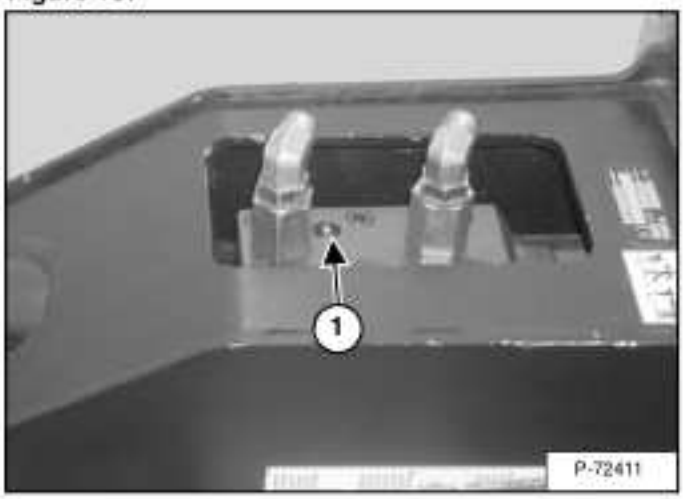
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LUBRICATING THE ATTACHMENT (CONT'D)

Lubrication Locations (Cont'd)

HB2380 Breaker

Figure 187

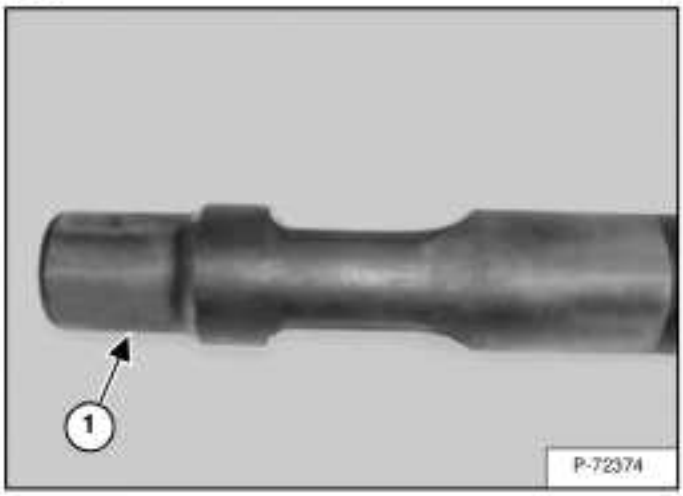


Hydraulic hoses have been removed for photo clarity.

Apply grease (4 - 5 pumps) to the upper end of the tool at the grease fitting (Item 1) **[Figure 187]** 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.

Figure 188



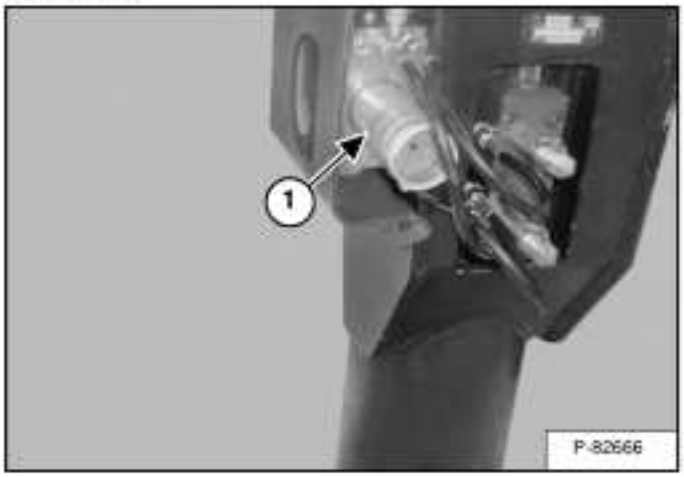
NOTE: Keep tool retaining components and tool bushings free of dirt and debris.

Apply grease to the top section (Item 1) **[Figure 188]** of the tool prior to installation.

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

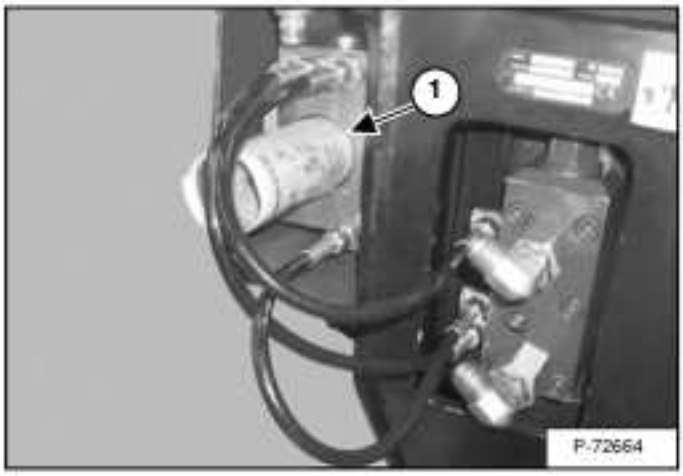
Lubrication Valve Cartridge Replacement (If Equipped)

Figure 189



Remove the spent grease cartridge (Item 1) **[Figure 189]**.

Figure 190



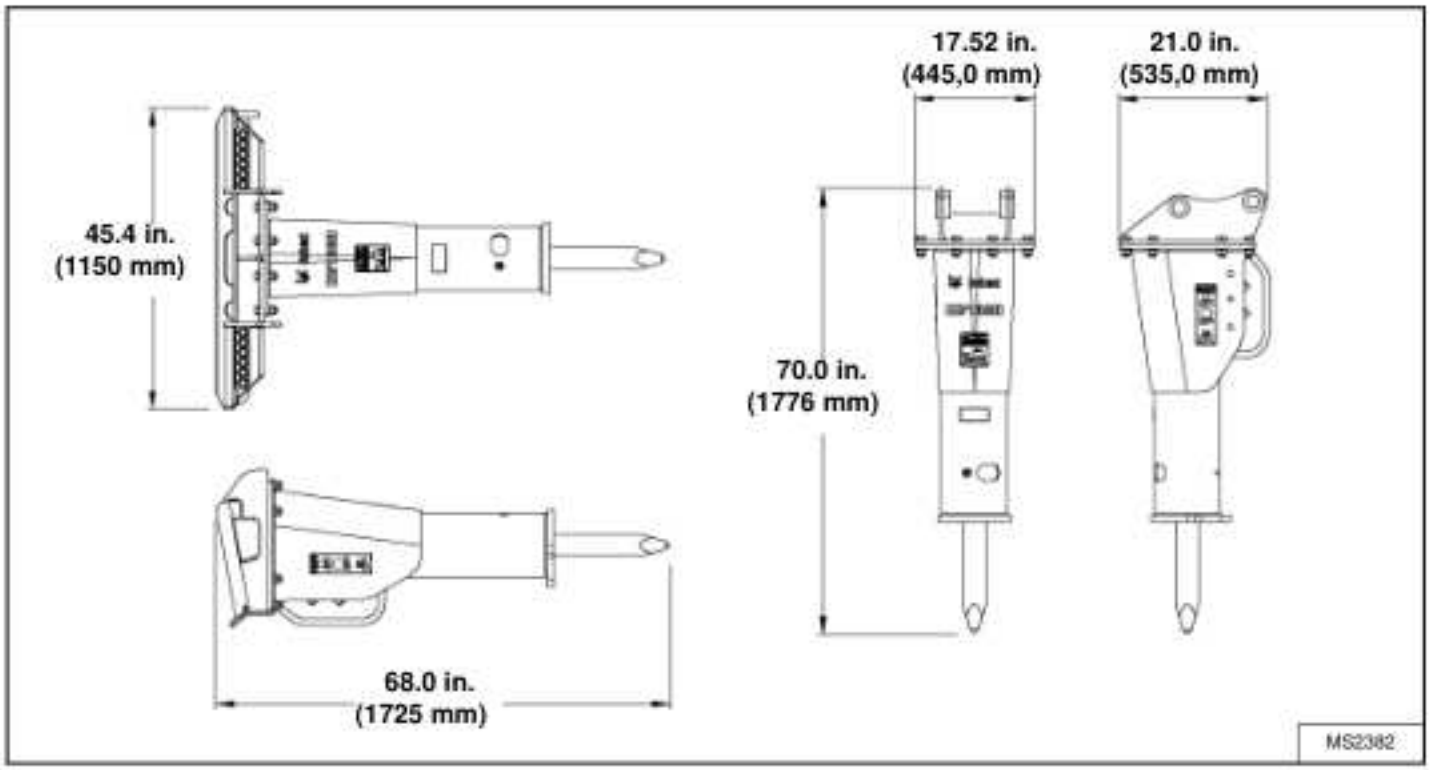
Install the new cartridge (Item 1) **[Figure 190]**, hand tight.

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(HB2380) HYDRAULIC BREAKER SPECIFICATIONS

Dimensions

- 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



Performance

Breaker Weight With Pin-On Mount With Bob-Tach Mount	903 lb. (410 kg) 1027 lb. (466 kg) 1183 lb. (537 kg)	
Blow Rate		
Soft Ground	690 bpm	
Hard Ground	910 bpm	
Operating Pressure	19.8 - 33.0 GPM (75 - 125 L/min.)	
Nitrogen Charge Pressure	1900 PSI (130 bar)	
Bit Diameter	465 PSI (32 bar)	
Bit Working Length	3.75 in. (95 mm)	
Bits Available	Crosscut Chisel Inline Chisel Nail Point Conical Point Crosscut Wide	Wide Chisel X-Cut Asphalt Inline Asphalt Blunt Point

Hydraulic System

Hydraulic Flow	17.2 - 31.7 GPM (65 - 120 L/min.)

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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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