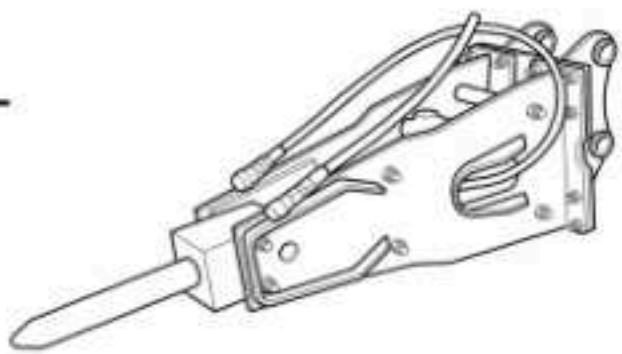
Hydraulic Breaker
B1400

Bobcat®

Operation & Maintenance Manual

S/N 797100101 & Above



6902190 (11-03) Revised (1-04) (2)

An Ingersoll Rand business

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REFERENCE INFORMATION

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

Hydraulic Breaker Serial Number _____

NOTES:

_____

YOUR BOBCAT® DEALER:

_____

ADDRESS:

_____

PHONE:

_____

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

Bobcat Company Europe
J. Huysmanslaan 59
B-1651 LOT
Belgium

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SAFETY INSTRUCTIONS

Before Operation

Carefully follow the operating and maintenance instructions in this manual.

The Bobcat VersaHANDLER is highly maneuverable and compact. It is rugged and useful under a wide variety of conditions. This presents an operator with hazards associated with off highway, rough terrain applications, common with Bobcat VersaHANDLER usage.

The Bobcat VersaHANDLER has an internal combustion engine with resultant heat and exhaust. All exhaust gasses can kill or cause illness so use the VersaHANDLER with adequate ventilation.

The dealer explains the capabilities and restrictions of the Bobcat VersaHANDLER and attachment for each application. The dealer demonstrates the safe operation according to Bobcat instructional materials, which are also available to operators. The dealer can also identify unsafe modifications or use of unapproved attachments. The attachments and buckets are designed for a Rated Load Capacity. They are designed for secure fastening to the Bobcat VersaHANDLER. The user must check with the dealer, or Bobcat literature, to determine safe loads of materials of specified densities for the machine - attachment combination.

The following publications and training materials provide information on the safe use and maintenance of the Bobcat machine and attachments:

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine and attachment is in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment gives operating information as well as routine maintenance and service procedures. It is a part of the machine and can be stored in a container provided on the machine. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Machine signs (decals) instruct on the safe operation and care of your Bobcat machine or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- Load Capacity Charts for each attachment are provided in the operator area. These charts indicate the Rated Load Capacity for each attachment at specified boom heights and extensions. Replacement or additional charts for new attachments are available from your Bobcat dealer.
- An Operator's Handbook is fastened to the operator cab of the VersaHANDLER. It's brief instructions are convenient to the operator. The Handbook is available from your dealer in an English edition or one of many other languages. See your Bobcat dealer for more information on translated versions.
- The AEM Safety Manual delivered with the machine gives general safety information.
- See the ADDITIONAL PUBLICATIONS Page in this manual or your Bobcat dealer for Service and Parts Manuals, printed materials, videos, or training courses available. Also check the Bobcat web site **www.bobcat.com**

The dealer and owner/operator review the recommended uses of the product when delivered. If the owner/operator will be using the machine for a different application(s) he or she must ask the dealer for recommendations on the new use.



Call Before You Dig

1-888-258-0808

When you call, you will be directed to a location in your state/city for information about buried lines (telephone, cable TV, water, sewer, gas, etc.)

SI VH-1203

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Breaker Operation (Cont'd)

Figure OI-21



Use the following procedure as a guide when operating the breaker:

With experience, the operator will become more effective at breaking.

When operating in the vertical position, on flat material, keep the tool vertical or curled back a small amount to direct the impact force downward and slightly toward the Excavator **[Figure OI-21]**.

When operating in the horizontal position, work near the edge.

Break off small pieces to prevent damage to the equipment from falling material.

Keep the tool perpendicular to the work surface.

Apply penetrating force by raising the front of the Excavator slightly off the ground.

⚠ WARNING

AVOID INJURY OR DEATH
DO NOT demolish overhead material or ceilings.

W-2118-0788

Apply penetrating force for no more than 15 seconds.

Move the tool to a different location whenever the tool penetrates but does not crack the material.

Strike the material several places along a line where you want it to break.

Deep tool penetration is not necessary, 6-10 inches (152-254 mm) is usually enough to break the material.

Concrete reinforced with rebar will hold together when concrete is broken. Use a chisel point tool to cut the rebar.

Excessive sideways force can cause tool binding, poor breaking and wear of the tool shank, cylinders and breaker attachment.

Always direct the force towards the point of the tool in contact with the material.

IMPORTANT

Avoid Blank (No Load) Firing. Disengage auxiliary hydraulics when breaker is not in use.

I-2205-0800

IMPORTANT

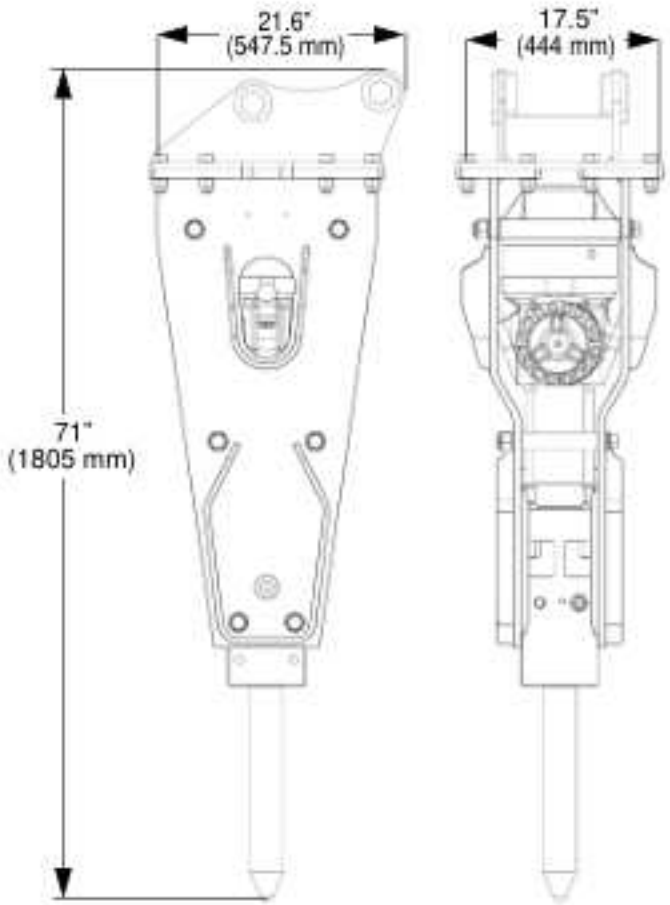
Do not use the breaker bit as a pry bar to move broken material. Excess prying force can cause damage to the breaker, loader or Excavator.

I-2074-0695

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SPECIFICATIONS

- 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.



B1400 HYDRAULIC BREAKER	
Weight	935 lbs. (424 Kg)
Blow Rate	845 BPM @ 21.2 GPM (80 Lpm) / 1160 BPM @ 31.7 GPM (120 Lpm)
Hydraulic Flow	21.2 - 31.7 GPM (80-120 Lpm)
Operating Pressure	2465 psi (170 Bar)
Bit Diameter	2.91 inch (74 mm)
Bit Working Length	11.0 inch (279 mm)
Bits Available	Conical Wide Chisel Inline Chisel Cross Cut Chiesel Blunt Tamping Pad Wide Cross Cut Nail

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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

WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

The Bobcat VersaHANDLER 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.

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

- OSHA Rule 29 CFR 1910.178 (l) requires employers to train employees operating Rough Terrain Forklifts.
- 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 or structures 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.
- Operator Training Courses are available from your Bobcat dealer in English and Spanish. They provide information for safe and efficient equipment operation. Safety videos are also available.

Know the Work Conditions

- Know the weight of the materials being handled. Avoid exceeding the Rated Load Capacity of the machine (as indicated on the Load Capacity Charts). 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 **Before Operation** Section of this manual.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, hearing protection or Front Window Guard are required for some work See your Bobcat dealer about Bobcat Safety Equipment.

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