

H-60 HYDRAULIC HAMMER

OWNER'S MANUAL



B BUILT
MFG

Read and Understand the manual. This manual provides information and procedures to safely operate and maintain the equipment.



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1. Introduction

1.1 Welcome



H-60 Hydraulic Hammer

Congratulations on your choice of a B-Built Manufacturing H-60 Hydraulic Hammer. This equipment has been designed and manufactured to meet the needs of discerning users.

The B-Built Manufacturing H-60 Hydraulic Hammer is designed to drive posts and break concrete.

Many features incorporated into this Hydraulic Hammer are the result of suggestions made by customers like you. Read this manual carefully to learn how to operate the Hydraulic Hammer safely and with maximum efficiency.

By following the operating instructions, in conjunction with a good maintenance program, your B-Built Manufacturing H-60 Hydraulic Hammer will provide many years of trouble-free service.

1.2 Safe Operation

Safe, efficient, and trouble-free operation of your attachment requires that you, and anyone else who will be using or maintaining the attachment, read and understand the information contained within the Owner's Manual.

Use this manual for frequent reference and to pass on to new operators or owners.

WARNING



Read And Understand Manual

To prevent personal injury or even death, be sure you read and understand all of the instructions in this manual and other related OEM equipment manuals! The attachment, if not used and maintained properly, can be dangerous to users unfamiliar with its operation. Do not allow operating, maintaining, adjusting, or cleaning of this attachment until the user has read this manual and has developed a thorough understanding of the safety precautions and functions of the attachment.

This attachment is designed for the specific purpose of driving posts and breaking concrete. **DO NOT** modify or use this attachment for any application other than that for which it was designed.

Attachments maintained or operated improperly or by untrained personnel can be dangerous; exposing the user and/or bystanders to possible serious injury or death.

1.3 Intended Usage

The attachment is intended to drive posts and break concrete. Do not use this attachment for any purpose other than its intended use.

1.4 Operator Orientation

The directions left, right, front, and rear, as mentioned throughout this manual, are as seen from the operator's seat and facing in the direction of travel.

1.5 Serial Number Location

The serial number decal is located on the right front of the frame.



Serial Number _____

1.6 Product Improvements

Because B-Built Manufacturing maintains an ongoing program of product improvement, we reserve the right to make improvements in design or changes in specifications without incurring any obligation to install them on attachments previously sold.

1.7 Disposal of Equipment at End of Useful Life

This attachment has been designed for the specific purpose of driving posts and breaking concrete. When this attachment is no longer capable of performing its designed purpose, it should be dismantled and scrapped. Do not use any materials or components from this attachment for any other purpose.

1.8 Unanswered Questions

If you have any questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer or:

B-Built Manufacturing
1550 Fairgrounds Road
Jefferson City, MO 65109
Phone: (573) 619-1973

1.9 Continuous Improvements

The information, specifications, and illustrations in this manual are based on the information that was available at the time this material was written and can change at any time without notice.

1.10 Specifications

Description	Specification	
Energy (Ft. lbs.)	600	
Oil Flow (GPM)	6 - 13	
Working Pressure (psi)	1300 - 1740	
Weight	675 lbs.	
Blow Rate (blows per minute)	550 - 1100	
Chisel Shaft Diameter	2.36"	
Domed Cup Diameter	5"	
Dimensions	Cup Position	Chisel Position
Length	36-1/2"	60"
Width	45-1/2"	45-1/2"
Height	39-1/2"	22"

Specifications subject to change without notice.

2. Safety

2.1 General

Safety of the operator and bystanders is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling the equipment.

Most work-related accidents are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially-hazardous situations before an accident occurs. As you assemble, operate, or maintain the attachment, you must be alert to potential hazards. You should also have the necessary training, skills, and tools to perform any assembly or maintenance procedure.

Improper operation and maintenance of this attachment could result in a dangerous situation that could cause injury or death.

If you have any questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer or:

B-Built Manufacturing
1550 Fairgrounds Road
Jefferson City, MO 65109
(573) 619-1973

WARNING



Do not assemble, operate, or maintain the attachment until you read and understand the information contained in this manual.



Safety precautions and warnings are provided in this manual and on the attachment. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

B-Built Manufacturing cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the attachment are, therefore, not all-inclusive. If a method of assembly, operation, or maintenance not specifically recommended by us is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the attachment will not be damaged or be made unsafe by the methods that you choose.

The information, specifications, and illustrations in this manual are based on the information that was available at the time this material was written and can change at any time without notice.

2.2 Safety Alert Symbol



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This manual contains DANGERS, WARNINGS, CAUTIONS, NOTICES, SAFETY INSTRUCTIONS, and NOTES which must be followed to prevent the possibility of improper service, damage to the equipment, personal injury, or death. The following key words call the readers' attention to potential hazards.

Hazards are identified by the "Safety Alert Symbol" and followed by a signal word such as "DANGER", "WARNING", or "CAUTION".

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

Indicates that equipment or property damage can result if instructions are not followed.

SAFETY INSTRUCTIONS

Safety instructions (or equivalent) signs indicate specific safety-related instructions or procedures.

Note: Contains additional information important to a procedure.

2.3 Safety Icon Nomenclature

Pictorial icons signal a type of hazard and warn of personal protection issues, prohibited actions, and hazard avoidance.

2.3.1 Personal Protection/ Important Information










-  Read the manual
-  Damaged hazard label
-  Eye protection
-  Fire extinguisher
-  First aid kit
-  Hand protection
-  Head protection
-  Hearing protection
-  OEM parts only
-  Protective shoes
-  Remove key
-  Set parking brake
-  Stop engine
-  Think safety
-  Transmission in park
-  Use proper support

-  Use proper tools
-  Visibility
-  Rollover protection
-  Weight rating

2.3.2 Prohibited Actions

-  Do not alter or modify
-  Store tools properly
-  Do not weld
-  No alcohol
-  No drugs
-  No young children
-  No riders

2.3.3 Hazard Avoidance

-     
- Crush hazard
-  Defective or broken part
-  High-pressure fluid hazard
-  Damaged hydraulic hose
-  Explosive separation hazard

-  Rollover protection
-  Safety alert symbol
-  Slipping injury
-  Trapped air hazard
-  Tripping injury
-  Stay clear
-  Tripping injury

2.4 General Safety Instruction

The owner/operator is responsible for the SAFE use and maintenance of the attachment. Make sure anyone who is operating, maintaining, or working around the attachment is familiar with the operating and maintenance procedures and related SAFETY information contained in this manual. This manual will alert you to all good safety practices that should be used while using the attachment.

In addition to the design features of the attachment, including safety signs, accident prevention is dependent upon the awareness, concern, prudence, and proper training of the people involved in the operation, maintenance, and storage of the attachment.

In addition to this safety section, refer also to safety messages and instructions in each of the appropriate sections of the attachment manual.

These general safety instructions apply to the overall use and maintenance of the attachment.

More specific instructions on safety are found in the operation, maintenance, and storage sections of this manual. Refer to these sections before performing any of these tasks.

WARNING

Failure to comply with the following safety instructions can and will result in serious injury and possibly even death if they are not understood and followed.



Read and Understand Manual

To prevent personal injury or even death, be sure you read and

understand all of the instructions in this manual and other related OEM equipment manuals! The B-Built Manufacturing attachment, if not used and maintained properly, can be dangerous to users unfamiliar with its operation. Do not allow operating, maintaining, adjusting, or cleaning of this attachment until the user has read this manual and has developed a thorough understanding of the safety precautions and functions of the attachment.

This attachment is designed for the specific purpose of lifting and positioning loads up to 2000 lbs. DO NOT modify or use this attachment for any application other than that for which it was designed.

Attachments maintained or operated improperly, or by untrained personnel, can be dangerous; exposing the user and/or bystanders to possible serious injury or death.

WARNING



Provide User with Literature

B-Built Manufacturing attachment owners must provide operator instructions to anyone using the attachment before use, and at least annually thereafter. Refer to “2.6 Training” on page 10.



Stay Clear

Clear the area of people, especially small children, before using the attachment. Under no circumstances should young children be allowed to work with or around the attachment.



Impaired User Hazard

Do not attempt to assemble, operate, or maintain this attachment under the influence of drugs or alcohol. Consult your doctor before using this attachment while taking prescription medications.



Crush Hazard

Do not allow anyone to ride on the skid steer or the attachment. Falling or crushing hazards can result in severe injuries or death.



No Unauthorized Modifications

Do not modify the attachment or safety devices. Do not weld on the attachment. Unauthorized modifications may impair its function and safety. Personal injury or death can result from unauthorized modifications.

If the attachment has been altered in any way from the original design, the manufacturer does not accept any liability for injury or warranty.



Damaged Parts Hazard

Do not use the attachment if any parts are damaged. If the attachment has a defect, immediately stop using it and remedy the problem before continuing.

CAUTION

The following safety instructions are provided to help prevent potential injury. Not following these instructions may lead to injury.

Personal Protection Equipment

When using this attachment, wear appropriate personal protective equipment. This list may include, but is not limited to:



- Protective shoes with slip resistant soles
- Protective goggles, glasses, or face shield
- Protective clothing and gloves
- Safety vest (when operating near roads)
- Hearing protection



Ear Protection

Wear suitable ear protection during prolonged exposure to excessive noise.



Hearing Loss

Prolonged Exposure To Loud Noise May Cause Permanent Hearing Loss!

Working environments with noise-producing equipment can cause partial to permanent hearing loss. We recommend using hearing protection any time noise levels exceed 80 decibels (dB). Noise levels over 85 dB, on a long-term basis, can cause severe hearing loss. Noise levels over 90 dB over a period of time can cause permanent and even total hearing loss.

Hearing loss from loud noise is cumulative over a lifetime without hope of natural recovery.



Crush Hazard

The skid steer should be equipped with a Rollover Protective Structure (ROPS) and a seat belt. A crushing hazard can occur if the driver is ejected from the seat while the skid steer is in motion. Fasten the seat belt whenever the skid steer is moving.

SAFETY INSTRUCTIONS

The following safety instructions are provided to help prevent injury or limit equipment damage.

- Replace any missing or hard-to-read safety signs or instructional labels. Use care when washing or cleaning the attachment.
- Replacement safety sign locations and part numbers are provided in this manual and are available from an authorized dealer parts department or the factory.

SAFETY INSTRUCTIONS

(continued)

- Have a first aid kit available for use should the need arise and know how to use it.
- Have a fire extinguisher available and know how to use it should the need arise.

- **Think SAFETY!**

Work SAFELY!

2.5 Hydraulic Safety

WARNING



High-Pressure Fluid Hazard

Hydraulic fluid escaping under pressure can penetrate the skin. Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid. If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Without immediate medical treatment, serious infection or toxic reaction can develop if hydraulic fluid penetrates the surface of the skin.



Before applying pressure to the system, make sure all components are tight and that the hydraulic lines, hoses, and couplings are not damaged. Replace any worn, cut, abraded, flattened, or crimped hoses.



Wear proper hand and eye protection when searching for a high-pressure hydraulic leak.

Use a piece of wood or cardboard as a backstop instead of hands to identify and isolate a leak.



Trapped Air Hazard

When installing, replacing, or repairing hydraulic system cylinders or parts, make sure that the entire system is charged and free of air before resuming operations. Failure to bleed the system of all air can result in improper skid steer operation, causing severe injury.



Explosive Separation Hazard

Do not make any temporary repairs to the hydraulic lines, fittings, or hoses using tape, clamps, or adhesives. The hydraulic system operates under extremely high pressure and temporary repairs may fail suddenly and create a hazardous/dangerous situation.

2.5.1 Prevention of Contamination

NOTICE

Make sure components in the hydraulic system are kept clean and in good working condition.

The most common reason for hydraulic component failure is contamination of the oil. Keep all hydraulic access areas completely clean, such as around the hydraulic oil filler cap, filter, and connection points. Repair any fittings, hoses, or other components where leakage is observed. Clean up any spilled hydraulic oil.

A hydraulic hammer tends to have a more adverse affect on oil and therefore is apt to deteriorate faster. Neglect of the skid steer oil system can not only damage the hydraulic hammer but also cause problems in the skid steer. Care should be taken to check for degraded or contaminated oil.

Signs of hydraulic oil degradation are:

- low viscosity
- bubbles (foaming)
- dark brown with an offensive odor
- clouded

If any of these conditions exist, change the oil immediately.

2.5.2 Non-Mineral Hydraulic Oil

In order to protect the environment or for other technical reasons, hydraulic oils are currently being used which are not classified as HLP mineral oils.

Only use the type of hydraulic oil specified by the skid steer manufacturer. When using this attachment on multiple skid steer machines, make sure the oil is compatible to the oil in the attachment.

NOTICE

Never mix mineral and non-mineral hydraulic oils. Even small traces of mineral oil mixed in with non-mineral oil can result in damage to both the hydraulic attachment and the skid steer.

2.6 Training

Anyone who will be using and/or maintaining the attachment must read, clearly understand, and follow ALL safety, operation, and maintenance information presented in this manual, other related OEM manuals, and the safety signs

If you do not understand any information in this manual, see your dealer or contact B-Built Manufacturing before proceeding.

Do not use or allow anyone else to use this attachment until all information has been reviewed. Annually review this manual before the season start-up.

Make periodic reviews of SAFETY and OPERATION of the attachment a standard practice. An untrained operator is not qualified to use this attachment.

2.7 OSHA Training Requirements

If used in a commercial application with an employee operating the equipment, refer to Title 29, Code of Federal Regulations Part 1928.57 (a) (6) at www.osha.gov.

2.8 Operation

Refer to “6.1 Operating Safety” on page 17 for safety recommendations related to operating the attachment. All applicable safety recommendations in other sections should also be followed.

2.9 Transporting

Refer to “7. Transporting” on page 24 for safety recommendations related to transporting the attachment. All applicable safety recommendations in other sections should also be followed.

2.10 Storage

Refer to “8. Storage” on page 24 for safety recommendations related to storing the attachment. All applicable safety recommendations in other sections should also be followed.

2.11 Maintenance

Refer to “9. Service and Maintenance” on page 25 for safety recommendations related to maintaining the attachment. All applicable safety recommendations in other sections should also be followed.

3. Safety Signs and Instructional Labels

3.1 General Information

The types of safety signs (hazard labels) and instructional labels, along with their locations on the equipment, are shown in the following illustrations. Good safety practices require that you familiarize yourself with the various safety signs, the type of warning, and the area or particular operation related to that area that requires your SAFETY AWARENESS.



Think SAFETY!

Work SAFELY!

Pay close attention to the safety signs and instructional labels attached to the skid steer and the attachment. Duplicate safety signs, which are attached to the attachment, can also be found in this section. If the attachment is missing a label or one is unreadable, replace the label before using the attachment.

SAFETY INSTRUCTIONS

Safety Signs and Instructional Labels

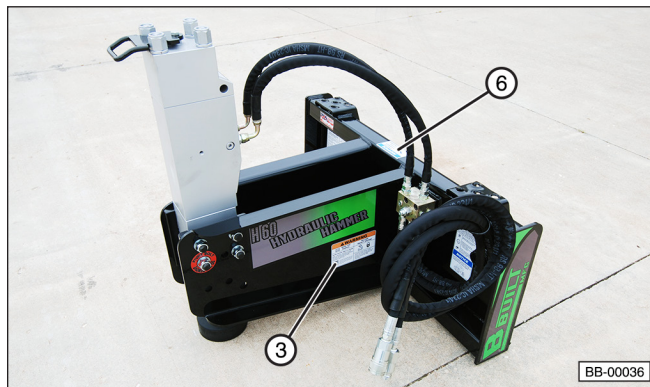
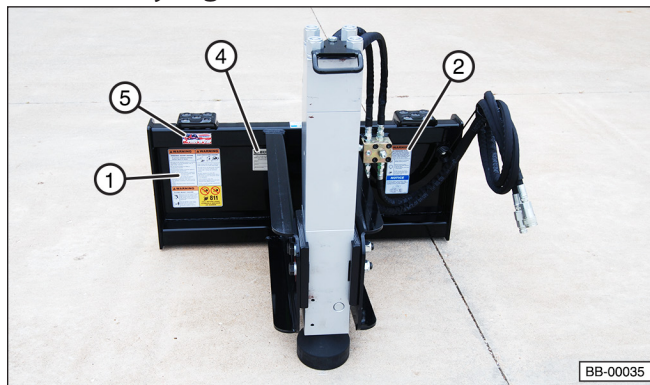
- Keep safety signs or instructional labels clean and legible at all times. Use a clean, damp cloth to clean safety decals.
- Replace any missing or hard-to-read safety signs or instructional labels.
- Use care when washing or cleaning the equipment not to remove or damage the labels. When using a pressure washer to clean the attachment, avoid spraying too close to the decals; high-pressure water can enter through very small scratches or under edges of decals, causing them to peel or come off.
- Locations for the labels and replacement part numbers are shown in this section.
- Replacement parts must have replacement labels attached during installation and/or before the attachment is used.
- Labels are available from your authorized dealer or from B-Built Manufacturing at no charge.

3.2 How to Install Replacement Safety Signs

1. Clean and dry the installation area.
- Note:** Do not install the signs if the temperature is below 50°F.
2. Determine the exact position before you remove the backing paper.
 3. Remove the backing paper.
 4. Align the sign over the specified area and carefully press the sign to the part/frame.

Note: Small air pockets can be pierced with a pin and smoothed out using the piece of backing paper.

3.3 Safety Sign Locations



Safety Sign Locations

Item	Type	Description	Qty.
1	WARNING	High- Pressure Fluids/ Prevent Contamination	1
2	WARNING	Read the Manual/ Falling Object Hazard	1
3	WARNING	Personal Injury Hazard	1
4	SERIAL	Serial No.	1
5	INSTRUCTIONAL	Made In the USA	1
6	NOTICE	Grease Hammer every 2 Hours	1

3.3.1 Safety Signs

1.

⚠ WARNING


PERSONAL INJURY HAZARD

To prevent equipment damage, serious injury, or death:

- Use only for the intended purpose of breaking up asphalt or concrete pavement, rock, or other similar materials.
- Do not use the breaker for lifting or transporting materials.
- Do not use the breaker to hammer against a structure being demolished.
- Always wear personal protective equipment such as eye, ear, and head protection. Wear safety shoes when in work area.
- Make sure hydraulic hoses are properly connected to inlet and outlet ports. Reversing connections may cause reverse tool operation resulting in severe personal injury.
- Relieve all pressure before disconnecting hoses.

⚠ WARNING

ELECTROCUTION HAZARD



- Avoid contact with any type of electrical power sources as it could cause death.
- The work tool is not electrically insulated and does not provide protection from contact with or being near electrical current.
- DO NOT operate in an area with underground or overhead power lines or other power sources until power source is de-energized.
- Follow employer, local, and governmental regulations for work area clearance from power sources.
- Call 811 to locate potential hazards prior to using work tool.

⚠ WARNING

FLYING OBJECT HAZARD



Hammers have the ability to send objects flying long distances at high speeds, which could result in serious injury to bystanders or passers-by.



Do not operate in areas where people may be present unless work area is enclosed by protective shields or barriers.







811

**CALL BEFORE USING
HYDRAULIC BREAKER
OR HAMMER**

BB-HH-0041

2.

⚠ WARNING	
HIGH PRESSURE FLUIDS	
Escaping hydraulic fluid under pressure, even a pinhole sized leak, can penetrate body tissue, causing serious injury, and possible death. If fluid is injected into your skin, it must be treated immediately by a doctor familiar with this type of injury.	
	Check or tighten all connections BEFORE applying pressure.
	Release all pressure before removing hoses and/or valves by: a. Stop the engine. b. Hold the hydraulic control levers in float position.
	DO NOT use your bare hand to check for potential leaks. Always use a board or cardboard when checking for a leak.

NOTICE	
To prevent system contamination when not connected to skid steer, clean ends of couplings and then connect together.	
	
<small>BB-HH-0040</small>	

4.

B BUILT	
<small>MFG</small>	
1550 Fairgrounds Rd Jefferson City, MO 65109 573-619-1973	
<small>Model #</small>	<input type="text"/>
<small>Serial #</small>	<input type="text"/>
<small>Manufactured Date</small>	<input type="text"/>





5.



6.

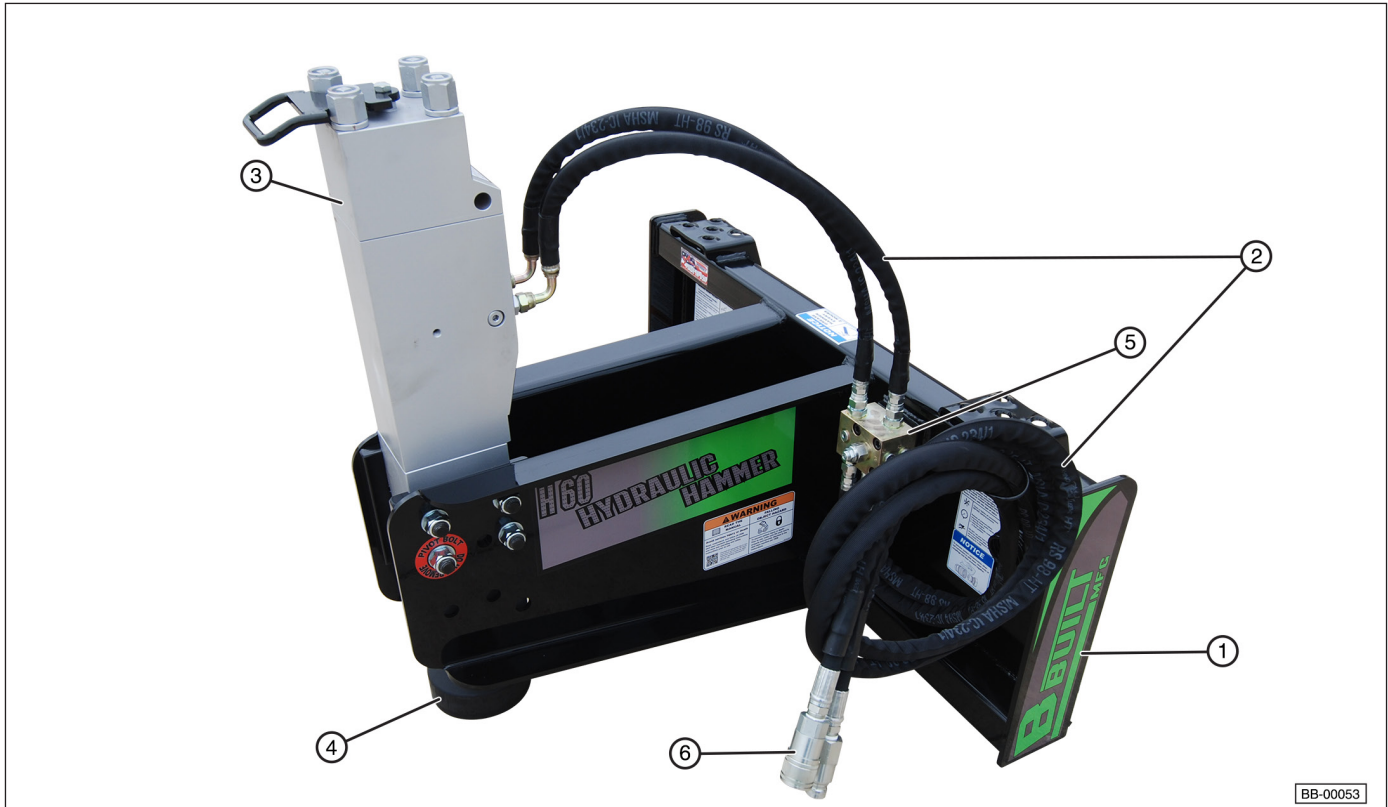
NOTICE	
	GREASE HAMMER EVERY 2 HOURS

3.

⚠ WARNING	
	READ THE MANUAL
	FALLING OBJECT HAZARD
	
Avoid serious injury or death Read, understand, and follow all OEM skid steer machine operating instructions and work tool operating and safety instructions prior to use.	To prevent serious injury or death: Prior to use, make sure the work tool is properly and securely attached to the skid steer machine per OEM instructions.
	Download the appropriate App on your smart phone and scan this QR (Quick Reference) code to review the safety signs and operating instructions for this work tool.
<small>BB-HH-0039</small>	

4. Nomenclature

4.1 Nomenclature



Item	Description
1	Universal Quick Attach Frame
2	Hydraulic Hoses
3	Hydraulic Hammer
4	5" Domed Cup Bit
5	Relief Valve
6	Flat Face Hydraulic Couplers

5. Initial Setup and Skid Steer Requirements

5.1 Skid Steer Loader Requirements

⚠ WARNING



OEM Owner/Operator Manual

Always refer to the skid steer loader owner's manual to ensure the attachment will be compatible and work correctly to ensure maximum safety.

Operating the attachment with a skid steer, not meeting the minimum requirements, may cause damage to the skid steer or attachment and could be a potential hazard to the operator, workers, or passersby.

The attachment is designed to work on a skid steer loader. **The use of any other type of skid steer is not recommended and is at the risk of the operator.** The size of the skid steer must have the power to operate the attachment.

- Universal quick-attach system
- Adequate counterbalance
- Hydraulic controls to operate the hammer

5.2 Skid Steer Safety Devices

Maintain all manufacturer-equipped safety shields and guards. Always replace shields and guards that were removed for access to connect, service, or repair the skid steer or implement.

5.3 ROPS and Seat Belt

WARNING



Rollover Hazard

To avoid serious injury or death from falling off skid steer, equipment runover, rollover, or crushing:

1. Only operate the equipment when seated in the operator's seat.
2. Always fasten seat belt when operating the skid steer and attachment.

Do not use this attachment on any skid steer or similar type machine without a Rollover Protective Structure (ROPS) (skid steer cab or roll bar) and seat belt to protect the operator from falling out of the skid steer, especially during a rollover where the driver could be crushed and killed. Only operate the skid steer with the seat belt fastened.

5.4 Attachment System

The attachment is designed to be mounted on a universal quick-attach coupler.

Refer to the OEM skid steer Operator's Manual for the attachment system being used. If the system does not conform to universal quick-attach dimensions, the attachment should not be attached. Consult an authorized dealer for possible modification procedures to mount non-conforming attachment systems.

5.5 Attachment Controls




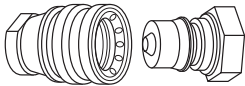




The attachment's hydraulic extension cylinder is designed to operate from the skid steer's auxiliary hydraulic system. It is extended and retracted by a control in the operator's cab. Consult the OEM skid steer Operator's Manual for instructions on how to control the auxiliary circuit.

The lift and tilt functions of the attachment are controlled using the loader's skid steer arms.

5.6 Initial Setup Procedure

Efficient and safe operation of the attachment requires that every user read and understand the operational instructions and all related safety instructions outlined in this manual and the OEM skid steer manual.

This checklist is provided for the user/owner. It is important for both personal safety and to maintain the mechanical condition of the attachment that this checklist is followed.


Initial Setup Checklist (prior to using for the first time)		
✓	Location	Task
		If damage or any unauthorized variation from the factory delivered condition is discovered, the attachment must not be placed into service.
		Verify all safety signs are in place and legible. Refer to "3.3 Safety Sign Locations" on page 11.
		Make sure the attachment is properly mounted to the skid steer. Refer to "5.8 Disconnecting Attachment" on page 16.
		Make sure the hydraulic hoses are attached to the skid steer hydraulic couplers. Refer to "5.7 Connecting Attachment" on page 16.
		Make sure all hardware is properly installed and tightened. Refer to "9.5 Bolt Torque Requirements" on page 26.
		Check the skid steer's hydraulic oil level, and add oil if necessary.
		Operate the hammer briefly to purge the air from the system.
		Recheck the hydraulic oil level.
		Inspect the attachment's hydraulic hoses and connections for any noticeable leaks. Correct any leaks found before using the attachment.
		Grease the hammer according to the procedure in "9.3 Greasing" on page 25.




5.7 Connecting Attachment

Use caution when connecting the attachment to the skid steer. Keep hands and feet clear of pinch points between the skid steer and attachment.





1. Make sure the hydraulic couplings are compatible.
2. The attachment should be resting on a level surface.
3. Make sure the hydraulic hoses are clear of any pinch points that could cause damage.
4. Refer to and follow the skid steer Operator's Manual for the specific connection procedure.

WARNING

 **Crush Hazard**
Verify locking pins on coupler are fully engaged through holes in attachment plate before use. If connected incorrectly, the attachment could fall off causing serious injury or death.

 WARNING	
	FALLING OBJECT HAZARD To prevent serious injury or death: Prior to use, make sure the work tool is properly and securely attached to the skid steer machine per OEM instructions.
	<small>BB-WD-0002</small>

5. Release all pressure in the auxiliary hydraulic circuit.

 WARNING	
HIGH PRESSURE FLUIDS Escaping hydraulic fluid under pressure, even a pinhole sized leak, can penetrate body tissue, causing serious injury, and possible death. If fluid is injected into your skin, it must be treated immediately by a doctor familiar with this type of injury.	
	Check or tighten all connections BEFORE applying pressure.
	Release all pressure before removing hoses and/or valves by: a. Stop the engine. b. Hold the hydraulic control levers in float position.
	DO NOT use your bare hand to check for potential leaks. Always use a board or cardboard when checking for a leak.
<small>BB-WD-0013</small>	

6. Turn off the ignition, set the parking brake, and exit the skid steer.
7. Wipe off any dirt or dust from the hydraulic couplers with a clean cloth before attaching the hoses to prevent contaminants from entering the hydraulic system.
8. Connect the hydraulic hoses to the auxiliary hydraulic couplers located on the skid steer.

5.8 Disconnecting Attachment

1. Move the attachment to a level storage location and lower it to the ground or onto blocks.
2. Release all pressure in the auxiliary hydraulic circuit.

CAUTION

Connect or disconnect the hammer only while it is in a horizontal position. Do not disconnect in a standing position.

3. Disconnect the hydraulic hoses and secure them on top of the boom.

NOTICE

To prevent contamination of the hydraulic system, clean the ends of the couplers and then connect them together.

4. Disconnect the attachment as per the skid steer OEM instructions.

6. Operation

6.1 Operating Safety



WARNING



Electrocution Hazard

This attachment is not electrically insulated and will not provide protection from contact with or proximity to electrical current. Obey all local and governmental regulations regarding required clearance from electrical power lines.

Contact with above ground or below ground power lines can result in serious injury or death.

- Be aware of your surroundings when operating the attachment.
- Maintain at least 20 feet between the attachment and any electrical hazard.



Ejection Hazard

The skid steer should be equipped with a Rollover Protective Structure (ROPS) and a seat belt. A crushing hazard can occur if the driver is ejected from the seat while the skid steer is in motion. Fasten the seat belt whenever the skid steer is moving.



Poor Weather Conditions Hazard

Do not operate the attachment during weather conditions producing lightning or storms.



Poor Ventilation Hazard

Always operate the skid steer in a well-ventilated area to avoid carbon monoxide poisoning.



Crush Hazard

Do not stand, walk, or work under a raised load at any time.

The weight of the skid steer, plus the attachment if it rolls onto a person, can cause serious crushing injury or death.



Roll Away Hazard

Before leaving the operator's seat, make sure the engine is stopped, the transmission is placed in park, the key is removed, and the parking brake is set.



Stay Clear

Clear the work area of all unnecessary people and obstructions to prevent personal injury.



Unintended Use Hazard

Never use the attachment to transport or lift objects. The lifted object can fall and cause serious injuries or death.

SAFETY INSTRUCTIONS

The following safety instructions are provided to help prevent injury or limit equipment damage.

- It is the attachment owner's responsibility to make sure any person using the attachment, especially if it is loaned or rented, has been thoroughly trained on its proper and safe use.
- Train all new users and review instructions annually with existing users.
- Be certain only physically-able persons will use the attachment.
- Users who have not read and understood all operating and safety instructions are not qualified to use the attachment.
- Untrained users expose themselves and bystanders to possible serious injury or death.
- If the elderly are assisting with the work, their physical limitations need to be recognized and accommodated.
- Never allow children to operate equipment.
- Never use the hydraulic hammer as a sledge hammer. This will damage the attachment, the working tool, or the skid steer.
- Do not use the hydraulic hammer under water. This will seriously damage the hammer.

6.2 Operating Procedures

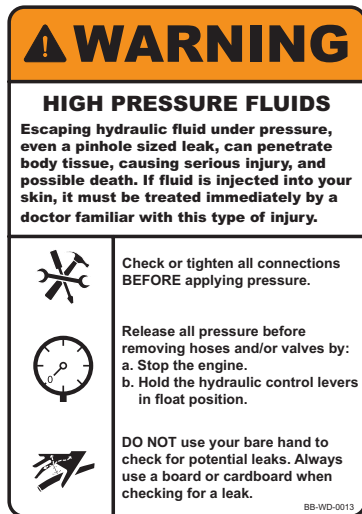
Although the attachment is easy to use, each operator should review this section to familiarize themselves with the detailed safety and operating procedures.

6.2.1 Pre-Operation Inspection

The inspection of the attachment helps ensure the operator that the attachment, when properly used, is suitable for lifting. It is the responsibility of the operator to perform the inspection prior to using the attachment.

The pre-operation inspection also helps determine if routine maintenance procedures are required. Only maintenance items specified in this manual may be performed by the operator.

1. Make sure the operator has read and understands the Operator's Manual for both the skid steer and this attachment before use.
2. Visually inspect all safety signs and instructional decals to make sure they are legible and correctly displayed. Replace unreadable or missing decals.
3. Make sure the attachment is securely attached to the skid steer.
4. Make sure the hydraulic hoses are attached to the skid steer hydraulic couplers.



5. Check for hydraulic oil leaks and proper oil level in the skid steer. Add oil if needed. Do not operate the attachment with a hydraulic oil leak.
6. Visually check for cracks or structural damage which might cause the attachment to fail. Do not use a damaged or malfunctioning attachment.
7. Check for excessive rust, corrosion, or oxidation. Do not use the attachment until all damage is repaired.
8. Make sure all structural fasteners are in place and properly tightened.

9. Do not replace worn or damaged parts or bolts with items of lesser quality or specification. Use only OEM replacement parts.
10. Before beginning operation, and every two hours during operation, grease the hammer according to the procedure in "9.3 Greasing" on page 25.

NOTICE

Lack of grease will cause severe damage to the interior parts of the hammer.

6.2.2 Work Area Inspection

The inspection of the work area ensures the operator of potential hazards and helps determine if the work area is suitable for lifting and placing objects. This inspection must be performed by the operator prior to moving the skid steer into the work area.

It is the operator's responsibility to find and avoid the work area hazards.

1. Never assume the work area is safe, and never skip the inspection before the start of operation.
2. Prior to use, clear the area of observers or unauthorized personnel, especially small children.
3. Always inspect the work area before beginning operation. Locate and mark any objects that could be damaged or would damage the attachment during operation. Check for:
 - a. Overhead obstructions or electrical power lines or components.
 - b. Drop-offs, ditches, dips, or holes.
 - c. Underground power lines or other hazardous structures.
 - d. Steeply sloped surfaces.
 - e. Unstable or slippery surfaces.
 - f. Inadequate ground support to carry the weight of the skid steer and attachment.
 - g. Adverse weather conditions.
 - h. Other possible unforeseen or unsafe conditions.

6.2.3 Work Area Conditions

1. Operate only on flat, level ground. Do not operate on sloped ground.
2. Operate the attachment only in conditions where you have clear visibility in daylight or with adequate artificial lighting.
3. Never operate the attachment in darkness or foggy conditions. Visibility of at least 300 feet in front and to the sides of the skid steer is recommended.
4. Make sure that potential hazards have been clearly identified and marked.

6.2.4 Operator Instructions

1. Operators must comply with employer, job site, and governmental rules regarding the use of personal protective equipment.
2. Always review and be familiar with the “controls” section of the skid steer Operator’s Manual to be familiar with the location, settings, and function of the controls.

6.2.5 Operation

1. Only use the skid steer and this attachment as it was intended.
2. Always be aware of surrounding conditions.
3. Do not operate the skid steer or this attachment in an unstable or unsafe manner.
4. Do not alter or disable any safety feature.
5. Do not use the attachment to push or pull objects.
6. Do not use the attachment to push off or pull skid steer toward any object or structure.
7. Do not use the attachment from a moving or mobile surface, such as a trailer or the bed of a vehicle.
8. Do not use the attachment to transport material.

WARNING

PERSONAL INJURY HAZARD

To prevent equipment damage, serious injury, or death:

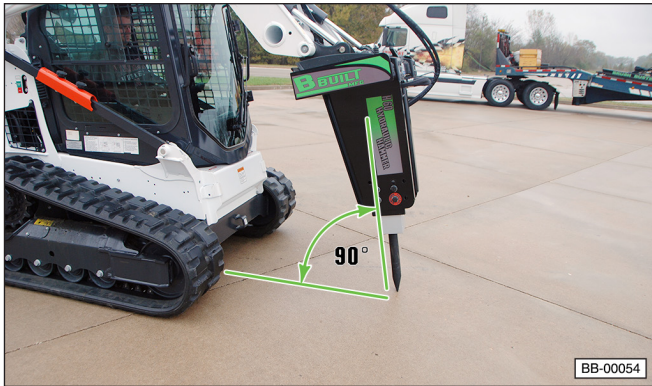
- Use only for the intended purpose of breaking up asphalt or concrete pavement, rock, or other similar materials.
- Do not use the breaker for lifting or transporting materials.
- Do not use the breaker to hammer against a structure being demolished.
- Always wear personal protective equipment such as eye, ear, and head protection. Wear safety shoes when in work area.
- Make sure hydraulic hoses are properly connected to inlet and outlet ports. Reversing connections may cause reverse tool operation resulting in severe personal injury.
- Relieve all pressure before disconnecting hoses.

BB-HH-0020

9. Always position the tool at a right angle to the material.

NOTICE

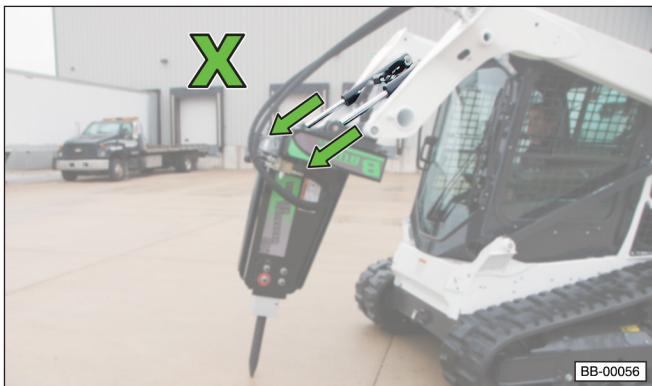
Angled contact will cause abnormal wear and can damage the hammer over time.



10. Do not use the hydraulic hammer as a crowbar or pry bar. Never use the hydraulic hammer to push or pull debris. This can cause the working tool to break.



11. Avoid operating the attachment when the lift arm cylinders are fully extended or retracted. The cylinder may be damaged by prolonged use while in these positions.



12. The hammer will “blank fire” when its energy is not transferred to the material being broken. This happens when the hammer bit breaks through the material or slips off. Avoid blank firing whenever possible.



6.2.6 Post Driving

The 5” Domed Cup Tool Bit is intended for driving posts.

1. Install the cup bit and make sure the hammer is in the vertical position.
2. Attach the supplied chain to the lifting point on the hammer frame. Set the hanging length of the chain equal to the desired post height.



3. Position the cup bit on top of the post. Use the chain as a reference to set the post vertical.



4. Hammer the post into the ground. Stop when the end of the chain touches the ground.



4. Position the cup bit on top of the post. Use the chain as a reference to set the post vertical.



6.2.7 Tee Post Driving

A tee post driving tool is supplied with the hammer.

1. Install the cup bit and make sure the hammer is in the vertical position.
2. Attach the supplied chain to the lifting point on the hammer frame. Set the hanging length of the chain equal to the desired post height.
3. Set the driving attachment over the tee post.



5. Hammer the post into the ground. Stop when the bottom of the driving attachment touches the ground.



6.2.8 Tee Post Pulling

A tee post pulling tool is supplied with the hammer.

1. Slide the tool over the top of the post and attach the chain to the lifting point on the hammer frame.

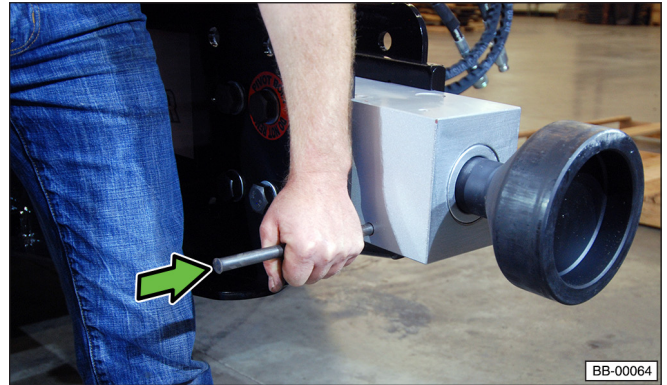


2. Raise the loader arms to pull the post out of the ground.

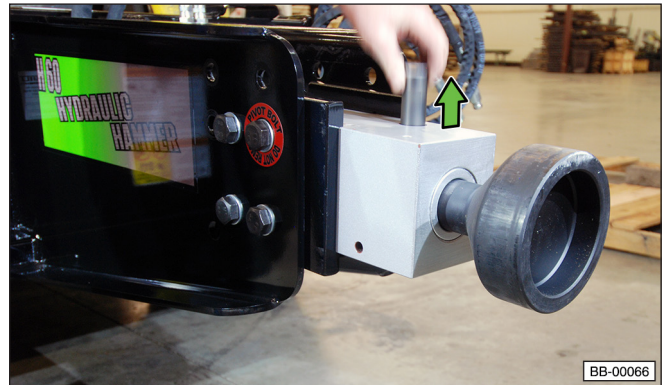


6.3 Changing the Tool Bit

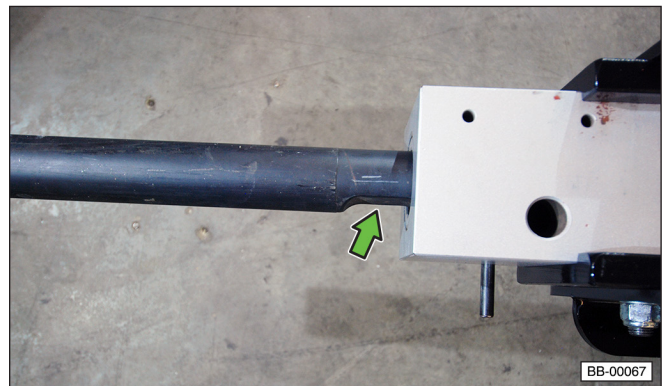
1. Using the drift punch supplied, drive out the spring pin in the lower area of the hammer.



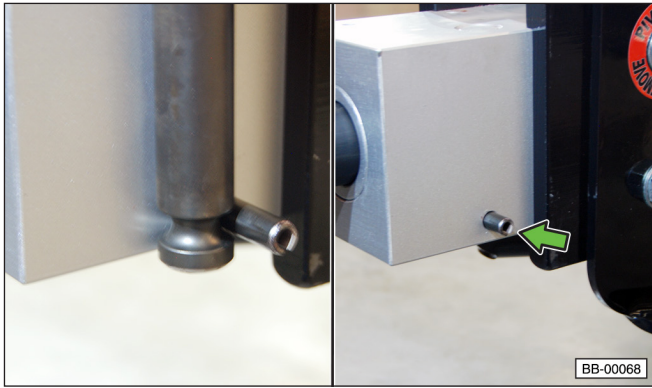
2. Push out the tool bit retainer.



3. Pull the tool bit out by hand.
4. Lubricate the shank of the working tool, and the tool retainer thoroughly using an NLGI No. 2 grease.
5. Insert the new working tool, turning it until the tool retainer slips easily past the slot.



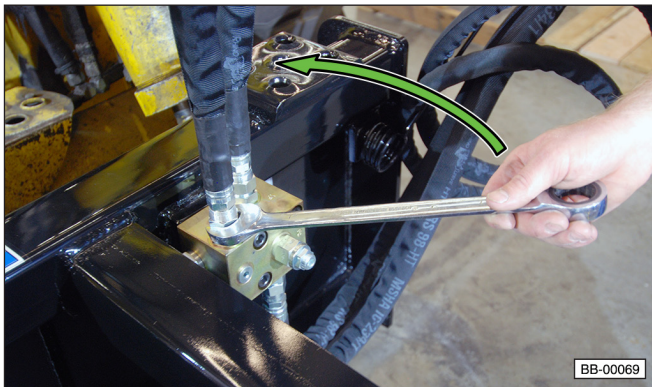
- Drive the spring pin back in, making sure to align the groove in the tool retainer with the spring pin.



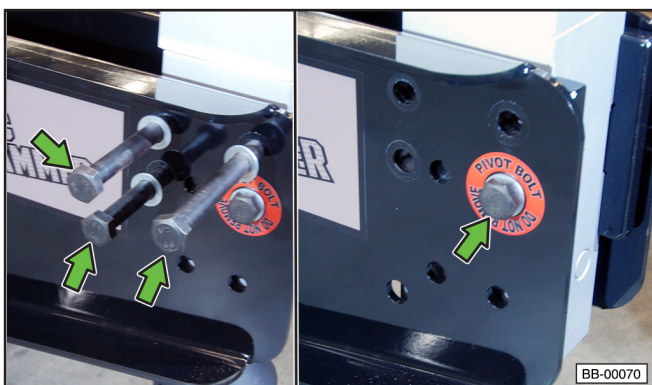
6.4 Changing the Hammer Position

The hammer can be mounted in a horizontal or vertical orientation to maximize efficiency.

- Set the loader brakes, remove the key, chock the loader wheels, disconnect the hydraulic hoses, and block the attachment before beginning work.
- Slightly loosen the hoses from the relief valve, so they can rotate to follow the hammer.



- Remove three of the four mounting bolts and nuts holding the hammer to the frame. Loosen the pivot bolt, but do not remove it. The hammer will rotate on this bolt.



CAUTION



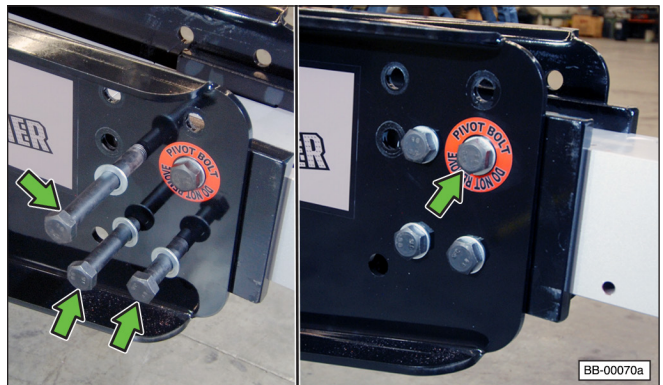
Pinch Point

Pinch point hazard between the hammer body and mounting frame. Keep hands clear.

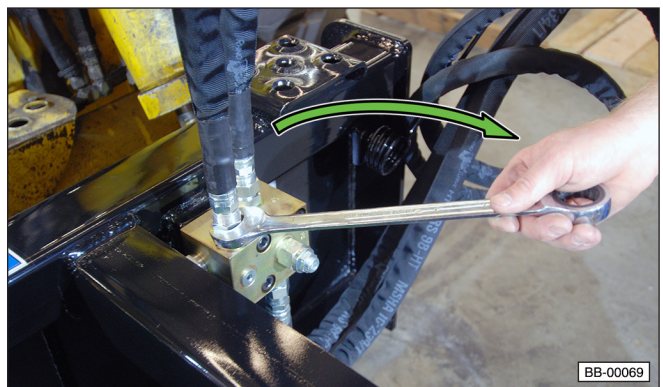
- Rotate the hammer to the desired vertical or horizontal position. The mounting holes in the hammer will align with three of the holes in the frame.



- Re-install the three mounting bolts and nuts that were removed. Tighten all four bolts to the proper torque.



- Retighten the hoses that were previously loosened from the relief valve.



7. Transporting

WARNING

To prevent possible injury or death, **DO NOT** travel or use attachment on public roads. Transport the

skid steer and/or attachment only on a suitable trailer. Follow all local, state, and federal regulations when towing on public roads.

8. Storage

8.1 Storage Safety

CAUTION



Personal Injury Hazard

Store the attachment in an area away from human activity. To prevent the possibility of serious injury, do not permit children to play on or around the stored attachment.



Crush Hazard

Always set the attachment on the ground or on blocks for storage.

NOTICE

To prevent damage to the attachment, store it in a dry, level area.

8.2 Placing In Storage

Prior to long-term storage, the attachment should be thoroughly inspected and prepared for storage. Repair or replace any worn or damaged components to prevent unnecessary downtime at the next use.

1. Remove all dirt, mud, debris, or other material.
2. Thoroughly wash the attachment with a pressure washer or water hose.
3. Place the attachment in an area that is dry, level, and free of obstructions (inside a building is ideal).
4. Disconnect the attachment from the skid steer following the procedure in “5.8 Disconnecting Attachment” on page 16.
5. Connect the hydraulic couplers to each other to prevent contamination of the hydraulic system.
6. Touch up all paint nicks and scratches to prevent rusting.

8.3 Removing From Storage

When removing the attachment from long-term storage, follow this procedure:

1. Connect the attachment to the skid steer following the procedure in “5.7 Connecting Attachment” on page 16.
2. Before placing the attachment back into service, replace any worn or defective parts and perform the “6.2.1 Pre-Operation Inspection” on page 18.

9. Service and Maintenance

9.1 Maintenance Safety

WARNING

The following safety instructions are provided to help prevent serious injury or death.



Personal Protection Equipment

Wear personal protection equipment (PPE), which may include hard hat, safety glasses, safety shoes, gloves, etc., appropriate for the work area.



Disconnect Hydraulics

To prevent injury due to possible unexpected movement, disconnect the hydraulic hoses before performing any maintenance procedure.



Damaged Parts Hazard

Do not use the attachment if any parts are damaged. If the attachment is believed to have a defect, which could cause it to work improperly, immediately stop using it and remedy the problem before continuing.



No Unauthorized Modifications

Do not modify the attachment or safety devices. Do not weld on the attachment. Unauthorized modifications may impair its function or operation and will void the warranty.

If the attachment has been altered in any way from the original design, the manufacturer does not accept any liability for injury or warranty.



Crush Hazard

Always set attachment on safety stands or on the ground when performing maintenance.



Good Working Condition

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts.



Replacement Parts

If replacement parts are necessary, genuine factory replacement parts must be used to restore the attachment to its original specifications. The manufacturer will not accept responsibility for damages as a result of the use of unapproved parts.

SAFETY INSTRUCTIONS

The following safety instructions are provided to help prevent injury or limit equipment damage.

- A fire extinguisher and first aid kit should be readily accessible while performing maintenance on this equipment.
- Do not leave tools lying around the work area. Follow good shop practices. Keep service area clean and dry. Be sure electrical outlets and tools are properly grounded. Use adequate light.
- Use the correct tools, jacks, hoists, and other tools that have the capacity for the job.
- Use certified safety stands rated to support the load when performing repairs, service, or maintenance.
- Make sure the safety stands are stable and the attachment is level to the ground.
- If the attachment is attached to the skid steer, set the brakes, remove the key, chock the skid steer wheels, and block the attachment before beginning work.

9.2 General Repairs

Repairs to the attachment may only be made by a qualified service technician, according to the OEM manufacturer's specifications. After repairs are completed, the operator must perform a pre-operation inspection before using the attachment.

Scheduled maintenance inspections should be performed by qualified service technicians, according to the manufacturer's specifications and the requirements listed in this manual.

9.3 Greasing

Greasing is the most critical component of hammer maintenance. A thick film of grease helps keep contaminants out of the hammer and protects its highest wear points.

Apply grease every two hours of use. In dry applications, such as demolition of concrete, apply grease more frequently. The tool shaft inside the bushing must never be dry.

Hammer grease, hammer lubricant, and chisel paste are typically NOT interchangeable with chassis lubricant due to the high heat requirements. A thick paste of grease where the lower bushing contacts the tool must be present at all times.

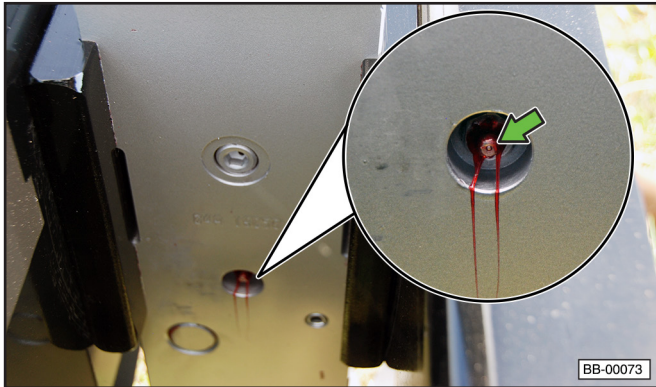
1. Every two hours of operation place the hammer in a vertical position with the weight of the hammer resting on the ground.
2. Attach the grease gun to the zerk at the greasing location and apply 20 full pumps of the proper grease. An NLGI NO. 2 grease must be used for proper lubrication properties.
3. When installing a new tool, liberally coat the upper 1/3 of the tool with grease before inserting.

NOTICE

Lack of grease will cause seizure and excessive wear of the tool and tool bushing. Excessive wear of the tool bushing misaligns the tool and piston, and will cause severe damage to the interior parts of the hammer.

9.3.1 Grease Zerk Location

The grease zerk is located on the hammer body below the hose fittings. This may be on the back or bottom of the unit, depending on hammer position.



1. Always use a handheld grease gun for all greasing.
2. Wipe grease zerk with a clean cloth before greasing to avoid injecting dirt and grit.
3. Apply 20 full pumps of grease.
4. Do not let excess grease collect on or around parts, particularly when operating in sandy areas.
5. If the grease zerk is broken, replace it immediately.
6. If the grease zerk will not take grease, remove and clean it thoroughly. Also clean the lubricant passageway. Replace the zerk if necessary.

9.4 Welding Repairs



Before performing any type of welding repair to the attachment, contact B-Built Manufacturing for approval. Repair welding must be done with care and with procedures that may be beyond the capabilities of the ordinary welder.

WARNING



Personal Injury Hazard

Repairs or modifications to the attachment can result in serious injury or death should these repairs fail.

NOTICE

Anyone performing a welding repair should be certified in accordance to the American Welding Society (AWS) standards.

9.5 Bolt Torque Requirements

WARNING





Equipment Failure

The torque value for bolts and capscrews are identified by their head markings. Replacing higher "Grade" bolts (Grade 5) with lower Grade bolts will lead to equipment failure and can result in injury or death. Always use replacement bolts with the same Grade markings as the removed bolt.

1. It is extremely important to apply and maintain proper torque on all bolts.
2. Use a torque wrench to assure the proper amount of torque is being applied to the fastener.
3. Start all bolts or nuts by hand to prevent cross threading.

Torque figures indicated in the charts are used for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in the charts unless otherwise noted. Check tightness of bolts periodically, using the bolt torque chart as a guide. Always replace hardware with the same Grade bolt.

Bolt Diameter	Bolt Torque Specifications			
	Grade 5  3 Radial Lines		Grade 8  6 Radial Lines	
	ft.lbs.	N·m	ft.lbs.	N·m
1/4"	9	12	12	17
5/16"	19	25	27	36
3/8"	33	45	45	63
7/16"	53	72	75	100
1/2"	80	110	115	155
9/16"	115	155	165	220
5/8"	158	215	220	305
3/4"	290	390	398	540
7/8"	420	570	650	880
1"	630	850	970	1320

9.6 Scheduled Maintenance

The recommended schedule is based on normal operating conditions. Severe or unusual conditions may require more frequent maintenance.

Maintenance	Hours and Serviced By		
Every 2 Hours of Operation			
Grease the front head assembly			
Daily			
Visually inspect the attachment to make sure all bolts and fasteners are installed and secure.			
Inspect the attachment for wear or damage.			
Make sure the attachment is securely attached to the skid steer.			
Weekly			
Check the skid steer hydraulic oil level.			
Monthly			
Grease all lubrication points. See instructions below.			
Remove build up of dirt and debris.			

10. Troubleshooting

PROBLEM	CAUSE	SOLUTION
Breaker will not hammer. a. Insufficient high pressure oil flow to hammer inlet. b. Adequate high pressure oil flow to hammer inlet.	Reversed oil flow. a. Defective or clogged hoses. Defective control valve. Missing or damaged tie rod. Insufficient hydraulic oil. b. Internal hammer defects. Excessive gas pressure in back head.	Change oil flow direction. Clean or replace hoses. Take to service shop for repair. Take to service shop for repair. Refill hydraulic oil. Take to service shop for repair.
Breaker hammers, but hammering force is reduced. a. Insufficient high pressure oil flow to hammer inlet. b. Adequate high pressure oil flow to hammer inlet.	a. Defective or clogged hoses. Oil leakage. Defective control valve. Deformed tie rod. Stuck control valve. Insufficient control valve stroke due to loose screws. Insufficient hydraulic oil. b. Internal hammer defects. Entry of foreign matter. Back head gas pressure decreased. (Number of blows increases.)	Clean or replace hoses. Take to service shop for repair. Take to service shop for repair. Take to service shop for repair. Take to service shop for repair. Take to service shop for repair. Refill hydraulic oil. Take to service shop for repair.
Hydraulic oil level goes down during operation.	Leak at Hydraulic Hammer cylinder or other plumbing. Leaks in skid steer hydraulic system.	Investigate and repair. Investigate and repair.
Piston operates, but does not strike the tool bit.	Tool shank is damaged or seizing.	Remove and check tool bit. Repair with grinder if seizing.
Hammering force is reduced and high pressure hose vibrates excessively during operation.	Defective accumulator	Take accumulator to service shop for repair.
Excessive oil leaks from front head or tool bit.	Worn cylinder seals.	Take front head assembly to service shop for repair.

11. Warranty

B-Built Manufacturing (the “Manufacturer”) warrants, only to the original Purchaser, this equipment will be free from defects in material and workmanship, under normal use and service, for one (1) year from the date of purchase providing this equipment is purchased for individual use only. Equipment in commercial use is warranted for six (6) months. This warranty does not apply to any equipment which has been damaged or which has been subjected to change, misuse, negligence, abnormal wear and tear, alterations, tampering, or failure to follow operating instructions. This warranty does not apply to any ground-engaging component, hydraulic hose, or cutting blade.

Under this warranty, the Manufacturer will repair or replace any part which the Manufacturer determines has failed during the period of the warranty due to defects in material or workmanship. After written approval by the manufacturer, the equipment or defective part must be returned to B-Built Manufacturing.

B-Built Manufacturing reserves the right to make improvements and changes in specifications without notice or obligation to modify previously sold units.

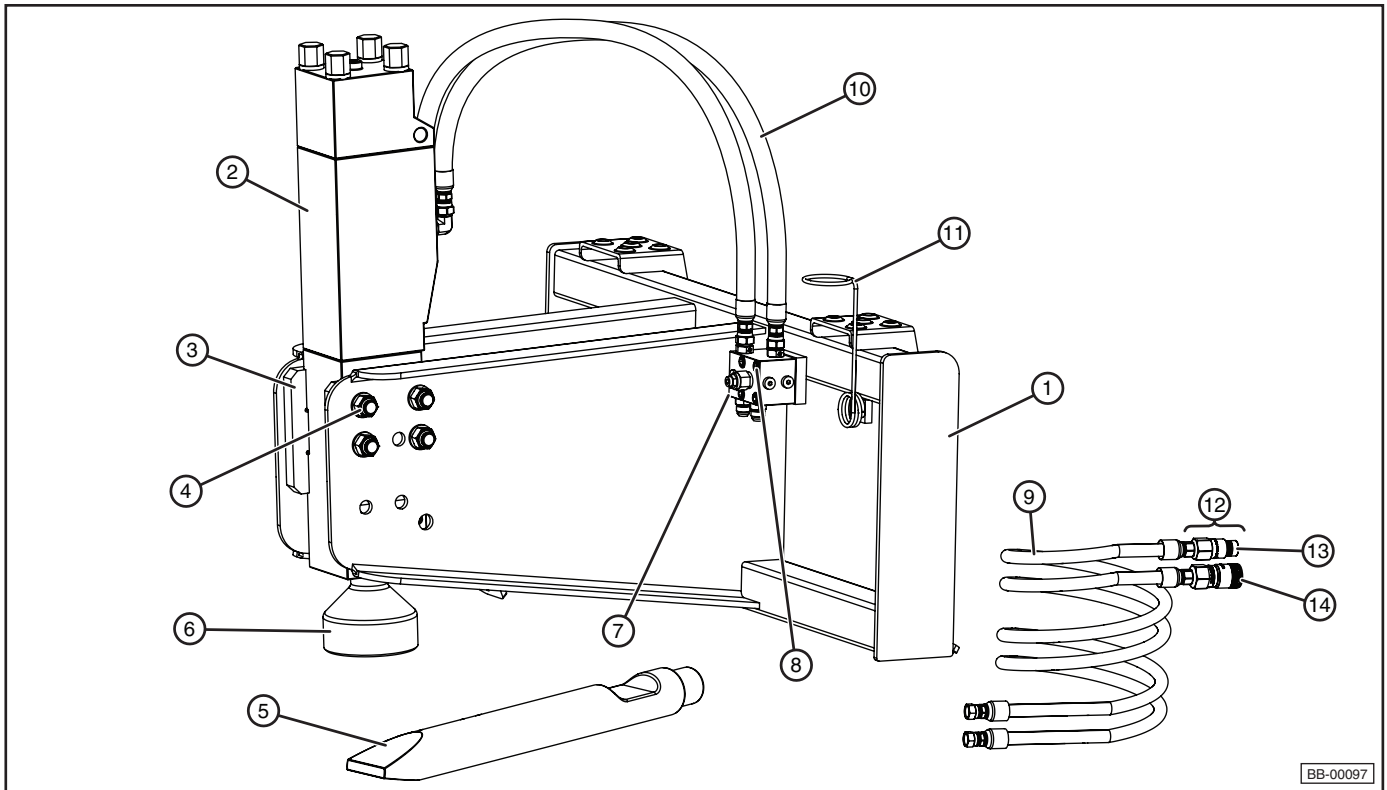
PURCHASER’S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY, OTHER DEFECT, OR CONDUCT GIVING RISE TO LIABILITY SHALL BE THE REPAIR OR REPLACEMENT OF THE PRODUCT SOLD, AND THE MANUFACTURER UNDER NO CIRCUMSTANCES SHALL BE LIABLE FOR ECONOMIC LOSS OR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE MANUFACTURER DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR PURPOSE.

This warranty gives you specific legal rights, and you may have other rights which vary from state-to-state.

12. Parts

Replacement parts are available from your authorized Dealer Parts Department or from B-Built Manufacturing.

The following serviceable parts are available for the B-Built Manufacturing H-60 Hydraulic Hammer.



Item	Part Number	Description	Qty.
1	H60-CF	Complete Frame	1
2	H60-HC600	Hydraulic Hammer Cell	1
3	H60-HMP	Hammer Mounting Plate	2
4	22220-BN	Hammer Mounting Bolt and Nut	4
5	H60-CHISEL	Chisel Bit	1
6	H60-CUP5	Cup Bit, 5"	1
7	H60-RV	Relief Valve	1
8	437250-AB	Relief Valve Mounting Bolt	4
9	H60-HKA	Hose Kit, Loader to Valve	1
10	H60-HKB	Hose Kit, Valve to Hammer	1
11	H-SPRING	Hose Spring	1
12	8FFS	Hose Coupling Set, Flat Face	1
13	8FFM	Hose Coupling, Male, Flat Face	1
14	8FFF	Hose Coupling, Female, Flat Face	1
15	H60-DS	Decal Set (not shown)	1
Dealer Only			
—	H60-HSK	Hammer Seal Kit	—
—	H60-CK	Hammer Charge Kit	—

NOTES



B BUILT-MFG.
1550 FAIRGROUNDS ROAD
JEFFERSON CITY, MO 65109
PH: 573-619-1973

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