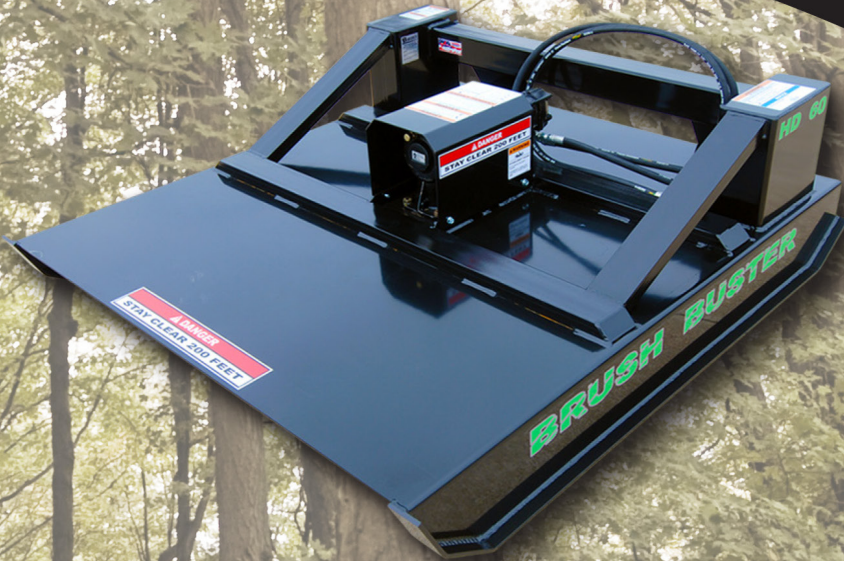


# HD-60, HD-72 **BRUSH BUSTER**

ROTARY CUTTER 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

## ⚠ 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 brush cutter, 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 brush cutter until the user has read this manual and has developed a thorough understanding of the safety precautions and functions of the unit.

This brush cutter is designed for the specific purpose of cutting thick weeds, brush and trees up to 2" (HD-60) or 3" (HD-72) in diameter. **DO NOT** modify or use this brush cutter for any application other than that for which it was designed.

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

## ⚠ WARNING



### READ THE MANUAL

#### 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.



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.

BB-BC-0022

## 1.1 Welcome



HD-72 Brush Buster Rotary Cutter

Congratulations on your choice of a B-Built Manufacturing Brush Buster Rotary Cutter. This equipment has been designed and manufactured to meet the needs of discerning users. The B-Built Manufacturing Brush Buster Rotary Cutter is designed to cut thick weeds, brush and trees up to 2" (HD-60) or 3" (HD-72) in diameter.

Many features incorporated into this brush cutter are the result of suggestions made by customers like you. Read this manual carefully to learn how to operate the brush cutter safely and how to set it to provide maximum cutting efficiency.

By following the operating instructions in conjunction with a good maintenance program, your B-Built Manufacturing Brush Buster Rotary Cutter will provide many years of trouble-free service.

This manual covers B-Built Manufacturing Brush Buster Rotary Cutter models:

Model	Model
HD-60	HD-72

## 1.2 Safe Operation



**Think SAFETY!**

**Work SAFELY!**

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

In addition to the design features of the brush cutter, 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 brush cutter.



This manual will take you step-by-step procedures and alerts you to good safety practices that should be used while operating the brush cutter. More specific safety instructions are found in the operation, maintenance, and storage sections of this manual. Refer to these sections before performing any of these tasks.

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

### 1.3 Safety Shields

Some of the illustrations in this manual may show the equipment with safety shields removed for clarity. Never operate the brush cutter unless all safety shields are in place.

## ⚠ WARNING



### Cutting or Entanglement Hazard

Operating the brush cutter without the safety shields can result in physical injury or death. Make sure all shields are properly installed before operating the brush cutter. This equipment should never be operated with any safety shielding removed.

### 1.4 Intended Usage

The brush cutter is intended for use as a brush cutting and clearing tool, cutting thick weeds, brush and trees up to 2" (HD-60) or 3" (HD-72) in diameter. Do not use this brush cutter for any purpose other than its intended use.

### 1.5 Operator Orientation

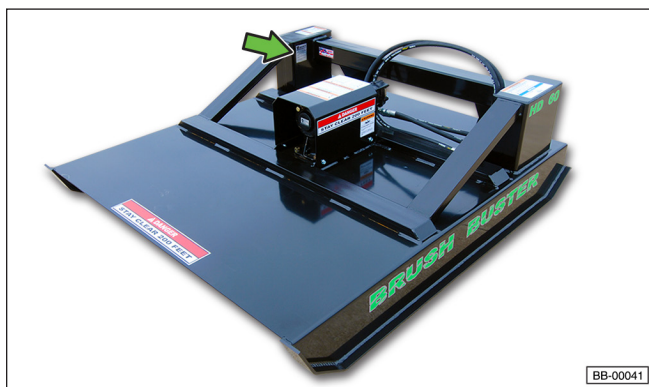
The directions left, right, front, and rear, as mentioned throughout this manual, are as seen from the operator's seat and facing in the direction of travel.

### 1.6 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 units previously sold.

### 1.7 Serial Number Location

The model number and serial number decals are located on the right side of the frame.



HD-60 Serial No. location



HD-72 Serial No. location

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

### 1.8 Disposal of Equipment at End of Useful Life

The B-Built Manufacturing brush cutter has been designed for the specific purpose of cutting thick weeds, brush and trees up to 2" (HD-60) or 3" (HD-72) in diameter. When this unit is no longer capable of performing its designed purpose, it should be dismantled and scrapped. Do not use any materials or components from this unit for any other purpose.

### 1.9 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

## 1.10 Specifications

Model	HD-60	HD-72
Overall Width	64"	75-1/2"
Overall Length	71"	89"
Overall Height	24"	21-1/2"
Cutting Width	60"	72"
Weight	750 lbs.	1280 lbs.
Deck Thickness	3/16"	1/4"
Blade Carrier Type	1/2" Balanced Disk	1/2" Balanced Disk
Blades	1/2" x 3" Standard Blade	1/2" x 4" Standard Blade
Blade Rotation	CCW	CCW
Maximum Cutting	2" Diameter	3" Diameter
Motor/Gear Box Coupler	Machined Steel	Machined Steel
Motor Protection	Cushion Block	Cushion Block
Gearbox Seal Guard	Standard	Standard
Required GPM	15 - 25	15 - 25
Hydraulic Couplers	Flat Face Couplers Standard	Flat Face Couplers Standard
PSI Min/Max	2500 / 3000	2500 / 3000
Shipping Weight	830 lbs.	1375 lbs.

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 brush cutter (unit), 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 unit 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 unit until you read and understand the information contained in this manual.**



**Safety precautions and warnings are provided in this manual and on the unit. 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 unit 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 unit 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
-  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
-   Crush hazard
-  Crush hazard (chock wheels)
-  Defective or broken part
-  Explosive separation hazard
-  High pressure fluid hazard
-  Damaged hydraulic hose
-  Fire hazard
-  Cutter blade contact hazard (hand)
-  Cutter blade contact hazard (foot)
-  Projectile hazard
-  Rollover protection
-  Safety alert symbol
-  Safety shields

-  Sharp object hazard
-  Slipping injury
-  Tripping injury
-  Trapped air hazard
-  Fall hazard
-  Stay clear



## 2.4 General Safety Instruction

In addition to this safety section, refer also to safety messages and instructions in each of the appropriate sections of the brush cutter manual. These general safety instructions apply to the overall use and maintenance of the brush cutter.

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.

### **WARNING**



#### **Provide User with Literature**

**B-Built Manufacturing Brush Buster Rotary Cutter** owners must provide operator instructions to anyone using the brush cutter before use, and at least annually thereafter. Refer to “2.7 OSHA Training Requirements” on page 10.



#### **Stay Clear**

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



#### **Impaired User Hazard**

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



#### **Crush Hazard**

Do not allow anyone to ride on the loader or the brush cutter. Falling or crushing hazards can result in severe injuries or death.



#### **No Unauthorized Modifications**

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

If the brush cutter 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 brush cutter if any parts are damaged. If the brush cutter has a defect, immediately stop using it and remedy the problem before continuing.



#### **Thrown Objects Hazard**

The brush cutter can throw objects up to 200 feet. To avoid serious injury or death, keep all thrown object shielding in place, and inspect the area for potential thrown objects before cutting.



#### **Cutting or Entanglement Hazard**

Operating the brush cutter without the safety shields can result in physical injury or death. Make sure all shields are properly installed before operating the brush cutter. This equipment should never be operated with any safety shielding removed.

### **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 brush cutter, 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



#### **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 loader should be equipped with a Roll Over Protective Structure (ROPS) and a seat belt. A crushing hazard can occur if the driver is ejected from the seat while the loader is in motion. Fasten the seat belt whenever the loader is moving.

## SAFETY INSTRUCTIONS

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



### Damaged Safety Signs

Replace any missing or hard-to-read safety signs or instructional labels. Use care when washing or cleaning the brush cutter.

Replacement safety sign locations and part numbers are provided in this manual and are available from an authorized dealer parts department or the factory.



### First Aid Kit

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



### Fire Extinguisher

Have a fire extinguisher available and know how to use it should the need arise.

## 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 machine 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.

## 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.

## 2.6 Training

Do not use or allow anyone else to use and/or maintain the brush cutter until they read, clearly understand, and follow ALL safety, operation, and maintenance information presented in this manual, other related OEM manuals, and safety signs.

An untrained operator is not qualified to use this brush cutter. If you do not understand any information in this manual, see your dealer or contact B-Built Manufacturing before proceeding. Annually review this manual before the season startup.

## 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](http://www.osha.gov).

## 2.8 Safety Sections

All applicable safety recommendations in other sections should also be followed.

### 2.8.1 Operation

Refer to “6. Operation” on page 17 for safety recommendations related to operating the brush cutter.

### 2.8.2 Transporting

Refer to “7. Transporting” on page 19 for safety recommendations related to transporting the brush cutter.

### 2.8.3 Storage

Refer to “8. Storage” on page 19 for safety recommendations related to storing the brush cutter.

### 2.8.4 Maintenance

Refer to “9. Service and Maintenance” on page 20 for safety recommendations related to maintaining the brush cutter.



### 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 loader and the brush cutter. Duplicate safety signs, which are attached to the brush cutter, can also be found in this section. If the brush cutter is missing a label or one is unreadable, replace the label before using the brush cutter.

#### 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

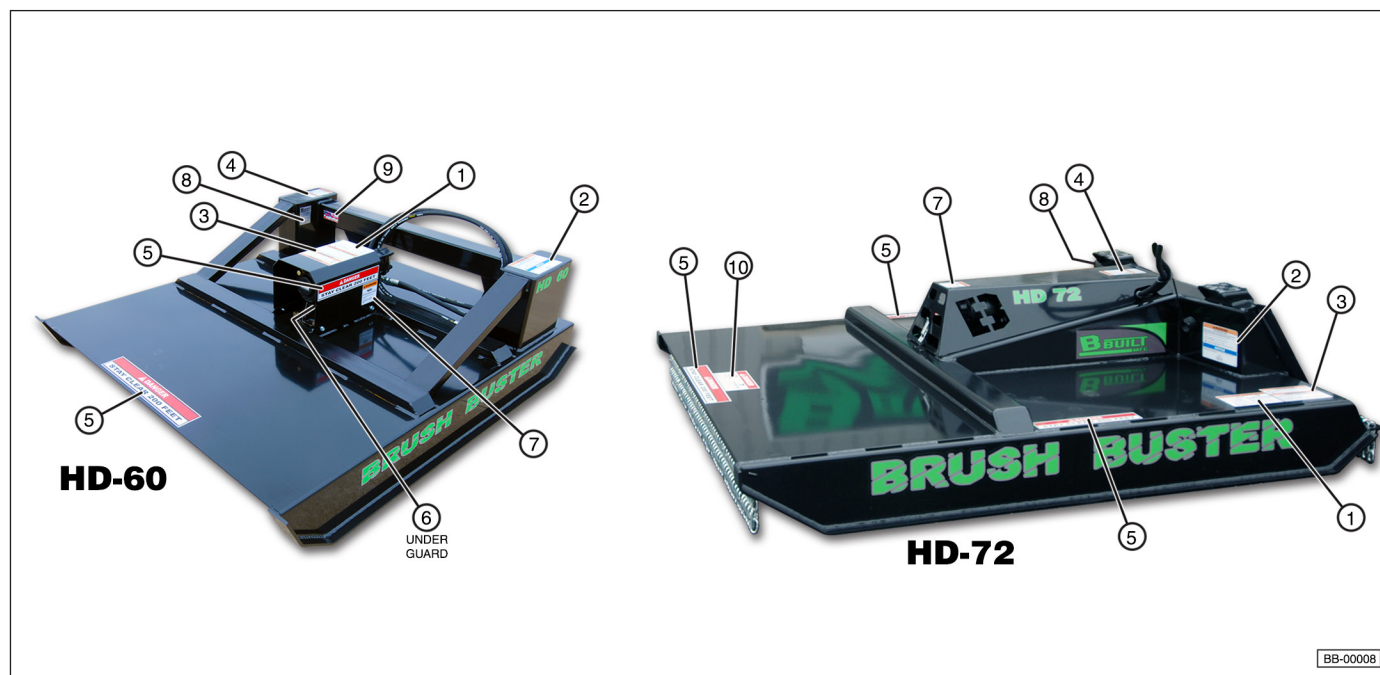
1. Clean and dry the installation area.

**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	Personal Injury Hazard	1
2	WARNING	High Pressure Fluids	1
3	WARNING	Flying Object Hazard	1
4	WARNING	Read the Manual	1
5	DANGER	Entanglement Hazard	1
6	WARNING	Entanglement Hazard	1
7	DANGER	Stay Clear 200 Feet.	1
8	SERIAL	Serial No.	1
9	INSTRUCTIONAL	Made In the USA	1

1. **WARNING**

**PERSONAL INJURY HAZARD**  
**ROTATING BLADES - KEEP AWAY**  
To prevent serious injury or death:

Never allow riders, especially, children, on tractor or mower.

Do not operate with bystanders in mowing area.

Do not operate with deflectors/guards removed.

Do not place hands or feet under deck when blades are rotating.

**THROWN OBJECT HAZARD**  
To prevent serious injury or death:

Cutter must remain in contact with ground while cutting.

Do not operate unless all guards are installed and in good condition.

Stop blade rotation if bystanders come within 200 feet.

BB-WD-0040

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.

BB-WD-0042



3.

<b>⚠ WARNING</b>	
<b>FLYING OBJECT HAZARD</b>	
	Brush cutters 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.
<b>⚠ WARNING</b>	
<b>PERSONAL INJURY HAZARD</b>	
<b>To prevent equipment damage, serious injury, or death:</b>	
<ul style="list-style-type: none"> <li>• Use only for the intended purpose of cutting thick weeds, brush, and trees up to 3" in diameter.</li> <li>• Do not use for lifting or transporting materials.</li> <li>• Do not push or pull objects.</li> <li>• Always wear personal protective equipment such as eye, ear, and head protection. Wear safety shoes when in work area.</li> <li>• Make sure hydraulic hoses are properly connected to inlet and outlet ports. Reversing connections may cause reverse tool operation resulting in severe personal injury.</li> <li>• Relieve all pressure before disconnecting hoses.</li> </ul>	
<small>BB-WD-0043</small>	

4.

<b>⚠ WARNING</b>	
	<b>READ THE MANUAL</b>
<b>Avoid serious injury or death</b>	
Read, understand, and follow all OEM skid steer machine operating instructions and work tool operating and safety instructions prior to use.	
	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.
<b>⚠ WARNING</b>	
	<b>FALLING OBJECT HAZARD</b>
	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-0046</small>	

5.

<b>⚠ DANGER</b>
<b>STAY CLEAR 200 FEET</b>

6.

<b>⚠ DANGER</b>

<b>ENTANGLEMENT HAZARD</b>
Protective guard has been removed, do not operate this work tool.
Entanglement in rotating parts will result in serious injury or death.
<small>BB-BC-0023</small>

7.

<b>⚠ WARNING</b>

<b>ENTANGLEMENT HAZARD</b>
Do not operate with guard removed.
Entanglement in rotating parts could result in serious injury or death.
<small>BB-BC-0024</small>

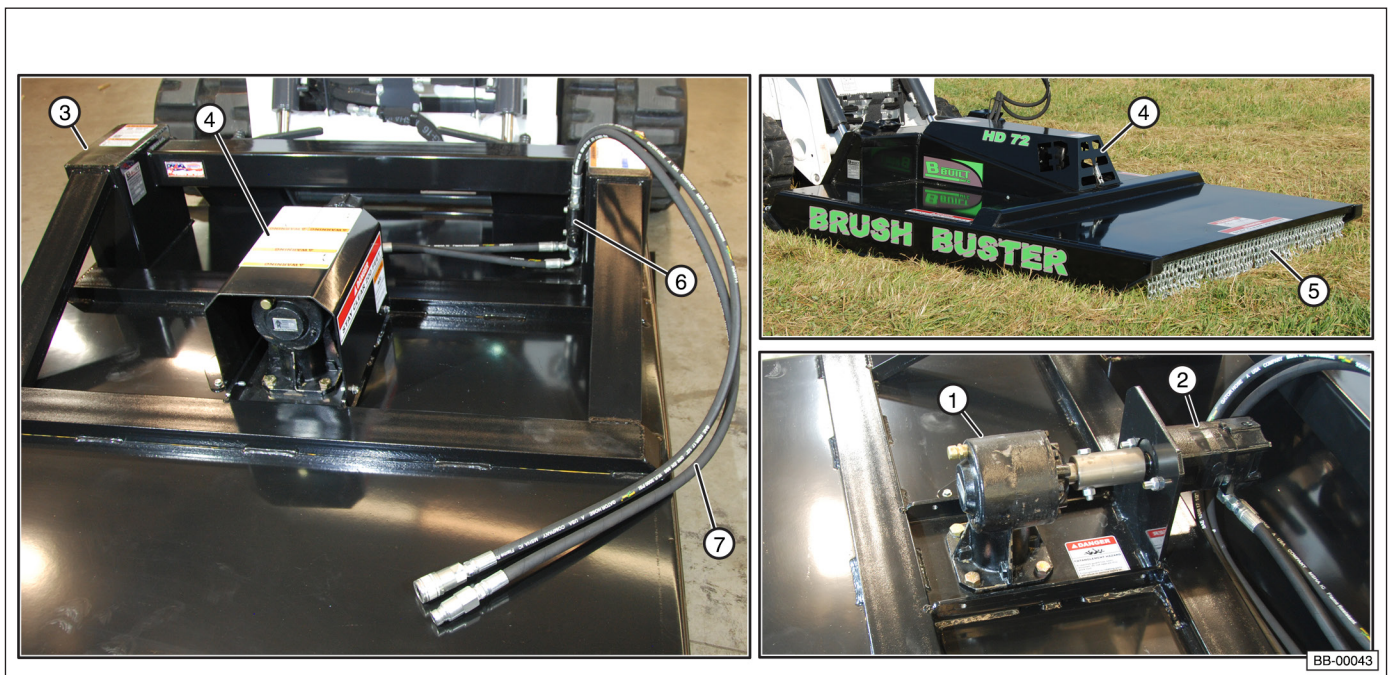
8.

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

9.



## 4. Nomenclature





Item	Description
1	Gearbox
2	Hydraulic Motor
3	Cutter Frame
4	Gearbox Shield
5	Chain Shield (HD-72)
6	Hydraulic Pressure Relief Valve
7	Hydraulic Hoses

## 5. Skid Steer Requirements and Initial Cutter Setup

This brush cutter was specifically designed to be used with a skid steer loader. Refer to “2.4 General Safety Instruction” on page 9 for user safety training requirements.

### 5.1 Safety

#### **⚠ WARNING**

  If operating the loader and cutter near a public roadway, the loader must be equipped with proper warning lighting and a Slow Moving Vehicle (SMV) emblem which are clearly visible from the rear of the unit. Lights and a SMV emblem must be equipped directly on implements if the visibility of the loader warning signals are obscured.



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



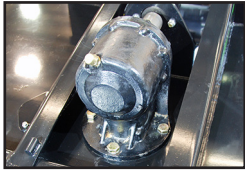




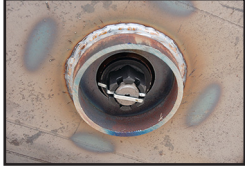


The loader must be equipped with a Roll Over Protective Structure (ROPS) (loader cab or roll bar) and seat belt to protect the operator from falling off the loader, especially during a roll-over where the driver could be crushed and killed. Only operate the loader with the seat belt fastened.



The weight of the loader, plus the brush cutter if it rolls onto a person, can cause serious crushing injury or death.

## 5.2 Initial Setup Checklist

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

Initial Setup Checklist (prior to using for the first time)		
✓	Location	Task
		Check the gearbox oil level. Refer to "9.2 Gearbox Lubrication" on page 21.
		Make sure all safety shields and guards are properly installed.
		Verify all safety signs are in place and legible. Refer to "3.3 Safety Sign Locations" on page 12.
		Make sure all hardware is properly installed and tightened. Refer to "9.9 Bolt Torque Requirements" on page 24.
		Make sure the blades are sharp and undamaged. Refer to "9.4 Blade Servicing" on page 22.
		Make sure the blade carrier nut is tight and the cotter pin installed. Refer to "9.5 Blade Carrier Removal" on page 23.
		Make sure the brush cutter is properly mounted to the loader. Refer to "5.4 Connecting Attachment" on page 16.
		Make sure the hydraulic hoses are attached to the loader hydraulic couplers. Refer to "5.4 Connecting Attachment" on page 16.

## 5.3 Skid Steer Loader Requirements

### ⚠ WARNING



### Loader Owner/Operator Manual

Always refer to the loader owner's manual to ensure compatibility and maximum safety. Review the "controls" section of the loader Operator's Manual to be familiar with the location, settings, and function of the controls. Be familiar with all controls before using this equipment.

### NOTICE

*Operating the cutter with a loader that does not meet the following requirements may cause loader or cutter damage and be a potential danger to the operator and passersby.*

### 5.3.1 Loader Requirements and Capabilities

- Adequate lift capacity and hydraulic flow rate.
- Universal Quick-Attach system.
- Ground speed between 2 and 5 MPH.
- Windshield made of impact resistant material.

Model	Hydraulic Flow Rate	Lifting Capacity (Min.)
HD-60	15 to 25 GPM	1000 lbs.
HD-72	15 to 25 GPM	1500 lbs.

### 5.3.2 Attachment System

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

Refer to the loader Operator's Manual for the attachment system being used. If the system does not conform to universal quick-attach dimensions, the brush cutter may not fit or raise properly. Consult an authorized dealer for possible modification procedures to mount non-conforming attachment systems.

### 5.3.3 Cutter Controls

The brush cutter is designed to run off the loader's auxiliary hydraulic system, and is activated and deactivated by a control in the operator's cab. Consult your loader operator's manual for precise instructions on how to activate and deactivate the auxiliary circuit.

Lift and tilt functions of the brush cutter are operated with the control handles or pedals in the cab. Refer to the loader operator's manual for detailed instructions regarding these functions.

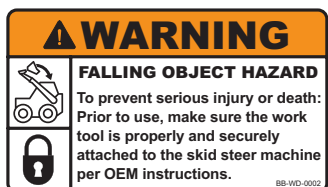


## 5.4 Connecting Attachment

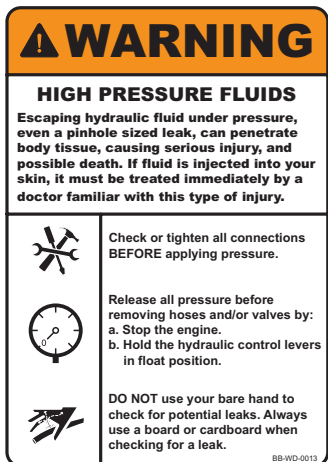
**CAUTION** Use caution when connecting the brush cutter to the loader. Keep hands and feet from under the deck and clear of pinch points between the loader and brush cutter.

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.



5. Release all pressure in the auxiliary hydraulic circuit.




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. Make sure they are properly connected. The single direction flow cutter will operate very slowly if connected backwards.

## 5.5 Setting the Brush Cutter

Use the loader's lift function to adjust the height of the cutter. Use the loader's attachment tilt function to control the fore and aft leveling.

**NOTICE** Do not all the blades to contact the ground which can causes damaging shock loads and will cause damage to the brush cutter and drive. Blades contacting the ground may also cause objects to be thrown out from under the deck.

**WARNING**  **Thrown Object Hazard**  
Do not raise the cutter off the ground more than 6 inches while the cutter blades are rotating. Keep the cutter low to the ground to avoid throwing debris which could cause serious injury or death.

When cutting dense or heavy material, tilt the cutter deck so the front of the cutter is approximately 1" (25 mm) lower than the back of the cutter. This will assist the processing of the material and will avoid material "balling" under the deck.

## 5.6 Engaging the Brush Cutter the First Time

1. Check the loader's hydraulic oil level, and add oil if necessary.
2. Start the loader, and increase the engine RPM just above idle.
3. With the cutter resting on cleared, flat, level ground, use the loader's auxiliary hydraulic flow lever or switch to slowly engage the auxiliary hydraulic flow to the brush cutter.
4. Run the brush cutter for 30 seconds to purge the air from the system.

**Note:** If the cutter does not operate at full speed, the hydraulic hoses are connected backwards. Complete Step 5, then re-connect the hoses properly.

5. Turn the cutter OFF, and allow the blades to come to a complete stop.
6. Re-check the loader's hydraulic oil level, and add oil if necessary.

**NOTICE** The brush cutter does not have a hydraulic reservoir and therefore can deplete the oil in the loader's reservoir during initial charging of the hydraulic circuit. Make sure to recheck the loader's hydraulic oil level and add oil as necessary.

7. Inspect the cutter's hydraulic hoses and connections for any noticeable leaks. Correct these leaks before using the brush cutter.

## 5.7 Machine Break-In

Although there are no operational restrictions on the brush cutter when used for the first time, it is recommended that the following mechanical items be checked:

1. After 1/2 hour of operation:
  - Make sure all fasteners are tight.
  - Lubricate all grease fittings.
2. After 10 hours of operation:
  - Go to the normal servicing and maintenance schedule, as defined in the Maintenance Section.

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

### NOTICE

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

## 6. Operation

### 6.1 Operating Safety



### WARNING



#### 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.



#### Ejection Hazard

The skid steer should be equipped with a Roll Over 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 other severe storms.



#### Thrown Object Hazard

Do not raise the cutter off the ground more than 6 inches while the cutter blades are rotating. Keep the cutter low to the ground to avoid throwing debris which could cause serious injury or death.



#### Inspect Work Area for Hazards

Cutters can throw objects up to 200 feet. Never raise the cutter more than a 6 inches off the ground when working. To avoid serious injury or death inspect the work area for potential thrown objects before cutting.



#### Inspect Cutter Deck

Make sure all thrown object shielding is in place and securely attached.



#### Stay Clear

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



#### Cutter Blade Contact Hazard

To avoid serious injury or death, keep away from rotating blades. Do not put hands or feet under cutter deck.

## SAFETY INSTRUCTIONS

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



### Train Unfamiliar Users

**It is the owner's responsibility to make sure any person using the brush cutter, especially if it is loaned or rented, has been thoroughly trained on its proper and safe use.**

- **Be certain only physically-able persons will use the brush cutter.**
- **Users who have not read and understood all operating and safety instructions are not qualified to use the brush cutter.**
- **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.**



### Fire Hazards

- **Clippings are flammable.**
- **Do not operate near fires.**
- **Keep the brush cutter deck clear of clippings and debris.**
- **Carry a fire extinguisher on the loader at all times.**

## 6.2 Pre-Operating Checklist

Before each use of the brush cutter, the following areas should be checked.

Checklist Before Each Use	
✓	Task
	Make sure the brush cutter is securely attached to the loader.
	Make sure the hydraulic hoses are attached to the loader hydraulic couplers. Check for evidence of hydraulic leaks. Repair any hydraulic leaks found.
	Make sure all safety shields and guards are properly installed.
	Check the blade bolts and blade carrier nut. Check the condition of the blades.
	Check for and remove any wires, vines, or other material wrapped around gearbox output shaft.
	Make sure all safety signs are in place and legible. Replace them if necessary.
	Inspect the overall brush cutter for potential problems or damage. Do not use the brush cutter if it needs repairs of any type.

## 6.3 Operating Guidelines

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

1. Review and follow the Pre-Operation Checklist.
2. Always inspect the work area before starting the cutter.
  - a. Locate and mark any utilities, steel posts, rocks or any other objects that could be damaged or would damage the cutter during operation.
  - b. Wire, cable, rope, chains, and metal objects can be thrown or swung outside the deck with great velocity.
  - c. Never assume the work area is safe and never skip the inspection before the start of operation.
  - d. Clear the area of bystanders, especially small children.
3. Start the cutter blade.
  - a. Engage the brush cutter drive motor at low engine RPM.
  - b. Slowly raise the rpm to the correct and desired cutter speed. Use the loader's hand throttle to set the speed; never use a foot throttle when using the cutter.
  - c. Always allow the cutter to obtain full operating speed before cutting.
4. Cutting.
  - a. Do not operate the cutter blades above the recommended RPM by using more than 25 GPM to the cutter head. This attachment requires 15 to 25 GPM of flow to cut efficiently.



- b. The correct ground speed for cutting depends on the material density. If the engine is slowing down or if the cutter speed is too slow due to being overloaded, the ground speed should be decreased.
  - c. Traveling too fast in thick material could result in balling of material underneath the cutter deck resulting in a loss of cutting efficiency.
  - d. Listen and feel for any strange vibration when operating. A strong vibration could indicate a damaged cutting blade, or cutting at too fast a pace. Slow the ground speed to see if the vibration stops. If it does not, stop the cutter, turn off the engine and investigate the cause of the vibration. Refer to "10. Troubleshooting" on page 25 for corrective action.
  - e. Always be aware of your surroundings and pay close attention to obstacles or terrain directly in front of the cutter. Operate at a safe slow-paced speed.
  - f. Never allow blades to contact solid objects like rocks, posts, wire, curbs, guardrails, or the ground while operating.
  - g. Do not use this attachment on large brush or trees larger than 2" (HD-60) or 3" (HD-72) in diameter.
5. Never use the cutter to push, pull, lift or move any type of object or vehicle.
6. Operate the cutter only under clear visibility conditions.
- a. Operate the brush cutter only in conditions where you have clear visibility in daylight or with adequate artificial lighting.
  - b. Never operate the brush cutter in darkness or foggy conditions where you cannot clearly see at least 300 feet in front and to the sides of the loader and brush cutter.
  - c. Make sure you can clearly see and identify bystanders, steep slopes, ditches, drop-offs, overhead obstructions, power lines, debris, and foreign objects. If you are unable to clearly see these type of items, discontinue operation.
7. Potential fire hazards.
- a. Do not operate the brush cutter, or drive the loader into material that is burning, or areas that recently burnt and may contain hot spots.
  - b. Burning material, sparks, and coals could be thrown from the brush cutter to areas of vegetation that might ignite.
  - c. Oil and grease on the loader and brush cutter could ignite, resulting in equipment destruction.
  - d. Carry a fire extinguisher on the loader at all times to extinguish possible fires encountered.

## 7. Transporting

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### **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

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### 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 Into 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 entangled vegetation.
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 17.
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 "5.8 Disconnecting Attachment" on page 17.
2. Before placing the attachment back into service, replace any worn or defective parts and follow the recommendations in "8.2 Placing Into Storage" on page 20.

# 9. Service and Maintenance

## 9.1 Maintenance Safety

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

### **WARNING**



#### **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.



#### **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 Shields and Devices**

When completing a maintenance or service function, make sure all safety shields and devices are installed before placing the brush cutter in service.

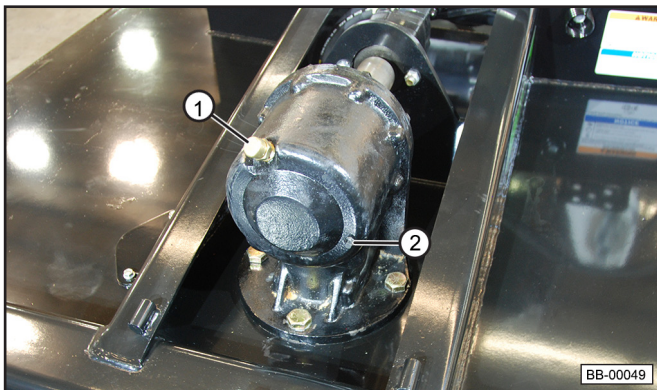
## SAFETY INSTRUCTIONS

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 approximately level.**
- **If the cutter 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 Gearbox Lubrication

The gearbox oil level should be checked weekly. If required, oil should be added at fill port (1) until it reaches level control hole (2). Recommended lubricant is 80W-90 gear oil.



**Note:** Make sure the brush cutter is level when checking the oil in the gearbox.

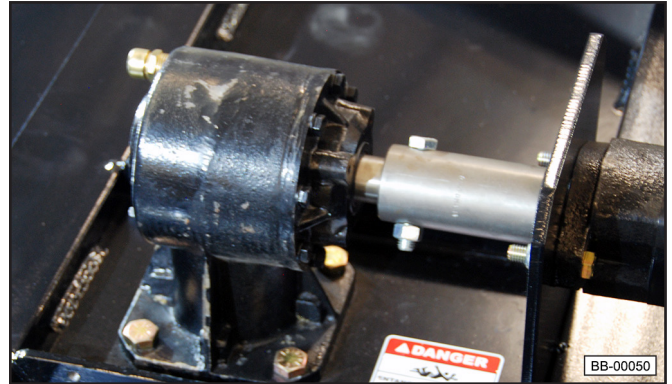
**Note:** Overfilling the gearbox will cause pressure to build up and cause the seals to leak.

### 9.3 Gearbox Seal Replacement

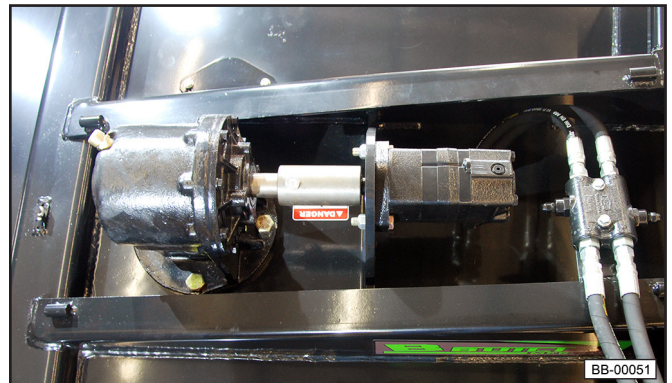
Replace the seals if there is evidence of leakage.

#### 9.3.1 Input Seal Replacement.

1. To replace the input seal, remove the motor and coupler from the gearbox.
2. Remove the seal cover from the input end of the gearbox.



HD-60



HD-72

3. Remove the seal and replace with a new seal. Be careful not to damage the new seal when installing it.
4. Replace the seal cover on the input end of the gearbox.
5. Re-install the motor and coupler to the gearbox.

### 9.3.2 Output Seal Replacement.

1. The output seal can be replaced without removing the gearbox from the deck.



**Crush Hazard**  
Raise the unit and support  
it securely before working

underneath. The unit could fall, causing serious injury or death.

2. Remove the cotter pin and castle nut from the output shaft of the gearbox. Be prepared for the blade carrier and blades to fall.
3. Remove the seal cover and seal from the output shaft. Replace with a new seal. Be careful not to damage the new seal when installing it.
4. Apply gasket sealant to the face of the seal cover, and re-install the seal cover on the output shaft of the gearbox.
5. Replace the blade carrier on the output shaft of the gearbox following the procedure in "9.6 Blade Carrier Installation" on page 23.

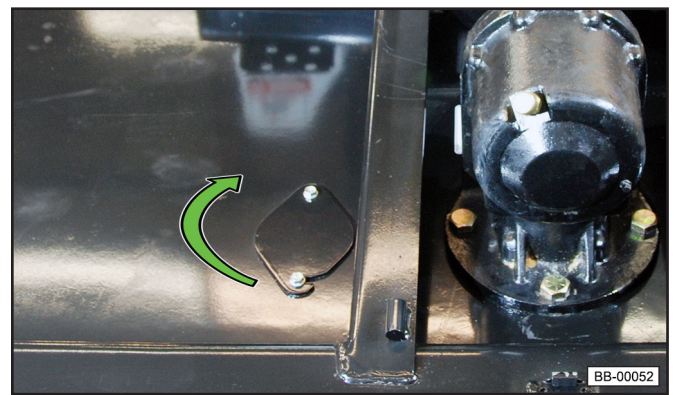
## 9.4 Blade Servicing

Inspect blades before each use to determine that they are properly installed and in good condition. If any blade is bent, excessively nicked, worn, or has any other damage, replace both blades. Small nicks can be ground out when sharpening.

Manually wiggle the blade carrier to check for any looseness. Recheck blade bolt torque every fifty hours. Retighten any loose parts.

### 9.4.1 Blade Removal

To remove the blades for sharpening or replacement, open the access cover in the deck. Remove the nut and lock washer from the blade bolt through the access hole.



### 9.4.2 Blade Installation

1. When installing blades, be sure to check the blade bolt pivot diameter for wear.
2. Replace the bolt if worn more than 1/4 inch at any point. Tighten nut to 600 ft. lbs.
3. Always use a new lockwasher and nut when replacing the blade bolt.
4. Make sure blades are installed with the cutting edge in the direction of rotation.
5. Make sure to close the access cover and tighten the cover bolt when finished.



### 9.4.3 Blade Sharpening



**Sharp Object Hazard**  
Hold the blade securely in a vice or other type of

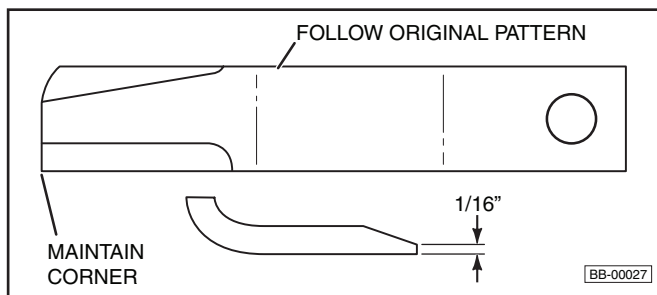
mechanical holding device to prevent the possibility of serious injury while sharpening.

1. When sharpening blades, always sharpen both blades at the same time and grind the same amount on each blade to maintain balance. Follow the original sharpening pattern.

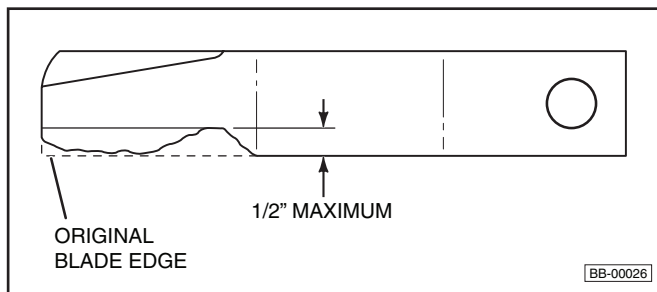
#### NOTICE

*Unbalanced blades will cause excessive vibration, which can damage gearbox bearings. Vibration may also cause structural cracks to the brush cutter.*

2. Do not sharpen blades to a razor edge, leave a 1/16" blunt edge.



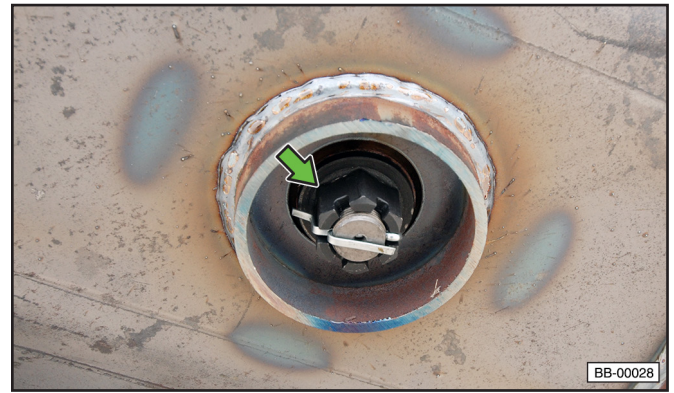
3. Replace the blades when worn more than 1/2" from the original edge. Always replace blades in pairs.



### 9.5 Blade Carrier Removal

1. Tilt the brush cutter all the way back to a near vertical position.
2. Secure the front of the cutter with an overhead hoist or use a suitable support under the front to secure it in the raised position.

3. Remove the cotter pin and loosen the castle nut on the gearbox shaft.



4. Remove the castle nut and the blade carrier.

### 9.6 Blade Carrier Installation

1. Clean the splines on both the blade carrier and the output shaft.
2. Position the carrier on the gearbox output shaft and install the castle nut. Tighten the nut to a minimum 450 ft. lbs.
3. Strike the carrier near the hub several times with a heavy hammer to seat the hub.

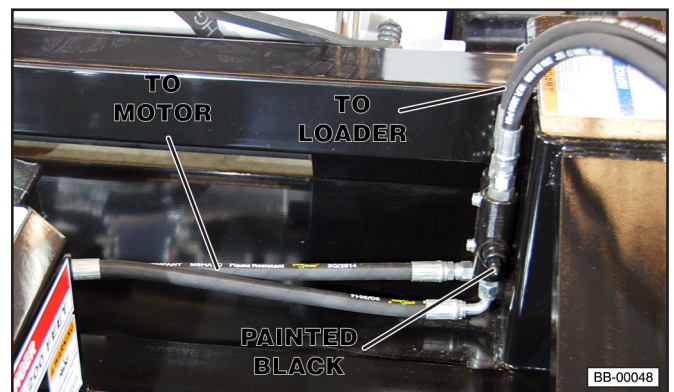
#### NOTICE

*Do not strike the nut or the end of the shaft.*

4. Retighten the nut to 700 ft. lbs.
5. Install the cotter pin and spread the tangs.

### 9.7 Pressure Relief Valve

When replacing the pressure relief valve, make sure to orient the valve as shown, and connect the lines to the correct ports.



## 9.8 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.

## 9.9 Scheduled Maintenance

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

Daily
Make sure blade bolts are tightened to proper torque.
Make sure all retainer clips and cotter pins are in place.
Inspect the cutting blades for wear and damage.
Inspect the hydraulic hoses and connections for wear, damage, or leakage.
Check for wires, vines, or other material wrapped around gearbox output shaft.
Weekly
Check blade carrier nut torque.
Check gearbox oil level.
Monthly
Make sure all fasteners are properly tightened.
Check cutter deck, gearbox, and motor for damage.
Inspect the cutting blades for wear and damage.
Wash the brush cutter.

## 9.10 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 cap screws 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

## 10. Troubleshooting

PROBLEM	CAUSE	SOLUTION
Cutter speed decreases.	Dull blades.	Remove and sharpen blades.
	Ground speed too fast.	Slow down ground speed.
	Cutter RPM speed too slow.	Increase engine speed or investigate other low oil flow problem.
Vibration felt when cutting.	Missing, loose, damaged or unbalanced cutter blades.	Replace blades with new or re-sharpened and equally balanced blades.
	Blade mount damaged.	Replace blade mount.
	Gearbox loose on deck.	Tighten gearbox mounting bolts to proper torque. Replace bolts if they are damaged.
	Cutting height too low for cutting in sandy or rocky soils.	Raise cutter height.
Blades get dull too quickly.	Blades have contacted solid objects (rocks, steel pipes, ground, etc.).	Clear cutting area of solid objects before hitting them, or raise the cutter height to clear exposed rock surfaces.
Blades breaking.	Excessive shock loads.	Avoid hitting solid objects (rock, steel pipes, large tree stumps, etc.).
Hydraulic oil level goes down during operation.	Leak at cutter motor or other plumbing.	Investigate and repair.
	Leaks in skid steer hydraulic system.	Investigate and repair.
Blades do not spin when cutter is activated.	Shear bolt between motor and gearbox is sheared.	Replace with proper shear bolt specified for this unit.
	Motor or gearbox failed.	If blade holder can be turned by hand, motor failure is most likely the cause. Call your dealer for further recommendations.
	Hydraulic hoses connected backwards.	Reverse hoses.
	Cushion valve failed	Replace cushion valve.

## 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 pages contain a list of serviceable parts for the B-Built Manufacturing HD-60 and HD-72 Brush Buster Rotary Cutters.

### 12.1 Deck Assembly



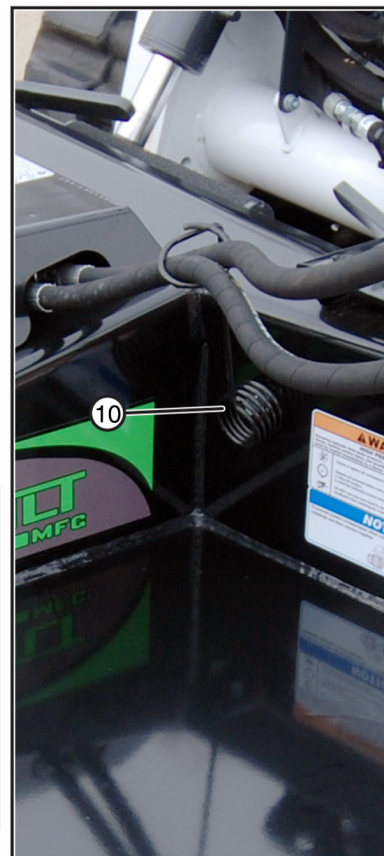
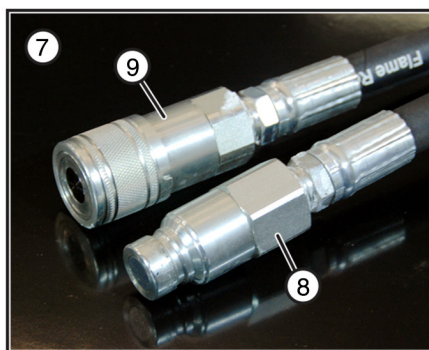
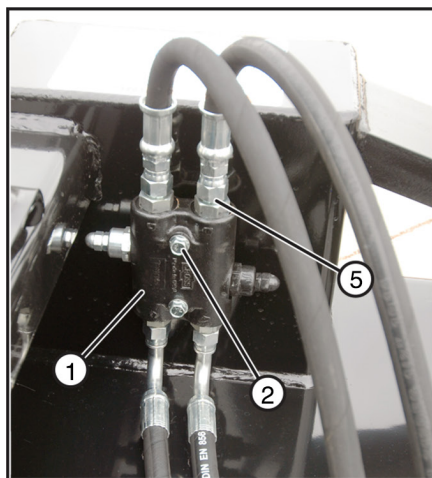
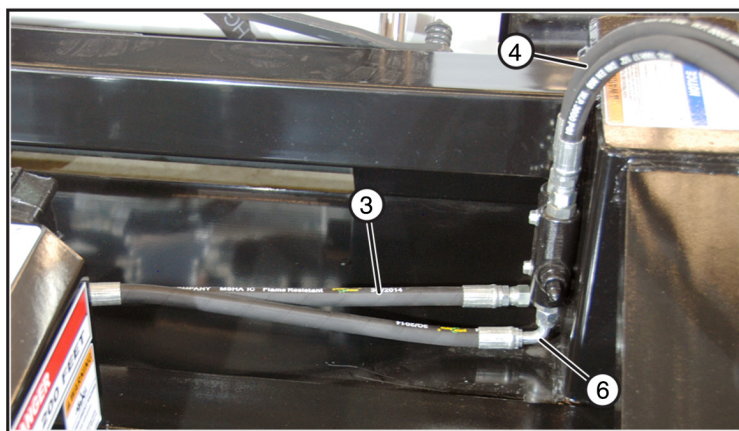
Item	Part Number	Description	Qty.
1	60-CF 72-CF	Complete Frame (HD-60) Complete Frame (HD-72)	1
2	60-GB 72-GB	Gearbox (HD-60) Gearbox (HD-72)	1
3	625200-B8N 750200-B8N	Gearbox Mounting Bolt & Nut (HD60) Gearbox Mounting Bolt & Nut (HD-72)	4
4	60-HM 72-HM	Hydraulic Motor (HD-60) Hydraulic Motor (HD-72)	1
5	500200-B8N	Hydraulic Motor Bolts	4
6	60-COU 72-COU	Hydraulic Motor Coupling (HD-60) Hydraulic Motor Coupling (HD-72)	1
7	500300-B2N	Shear Bolt	1

Item	Part Number	Description	Qty.
8	60-COV 72-COV	Motor and Gearbox Cover (HD-60) Motor and Gearbox Cover (HD-72)	1
9	375100-FTB	Cover Bolt Kit (HD-60)	4
10	72-CLK	Cover Latch Kit (HD-72)	1
11*	60-ISS 72-ISS	Gearbox Input Shaft Seal (HD-60) Gearbox Input Shaft Seal (HD-72)	1
12	60-OSS 72-OSS	Gearbox Output Shaft Seal (HD-60) Gearbox Output Shaft Seal (HD-72)	1
13	60-DS 72-DS	Decal Set (HD-60) Decal Set (HD-72)	1

\* Not Shown



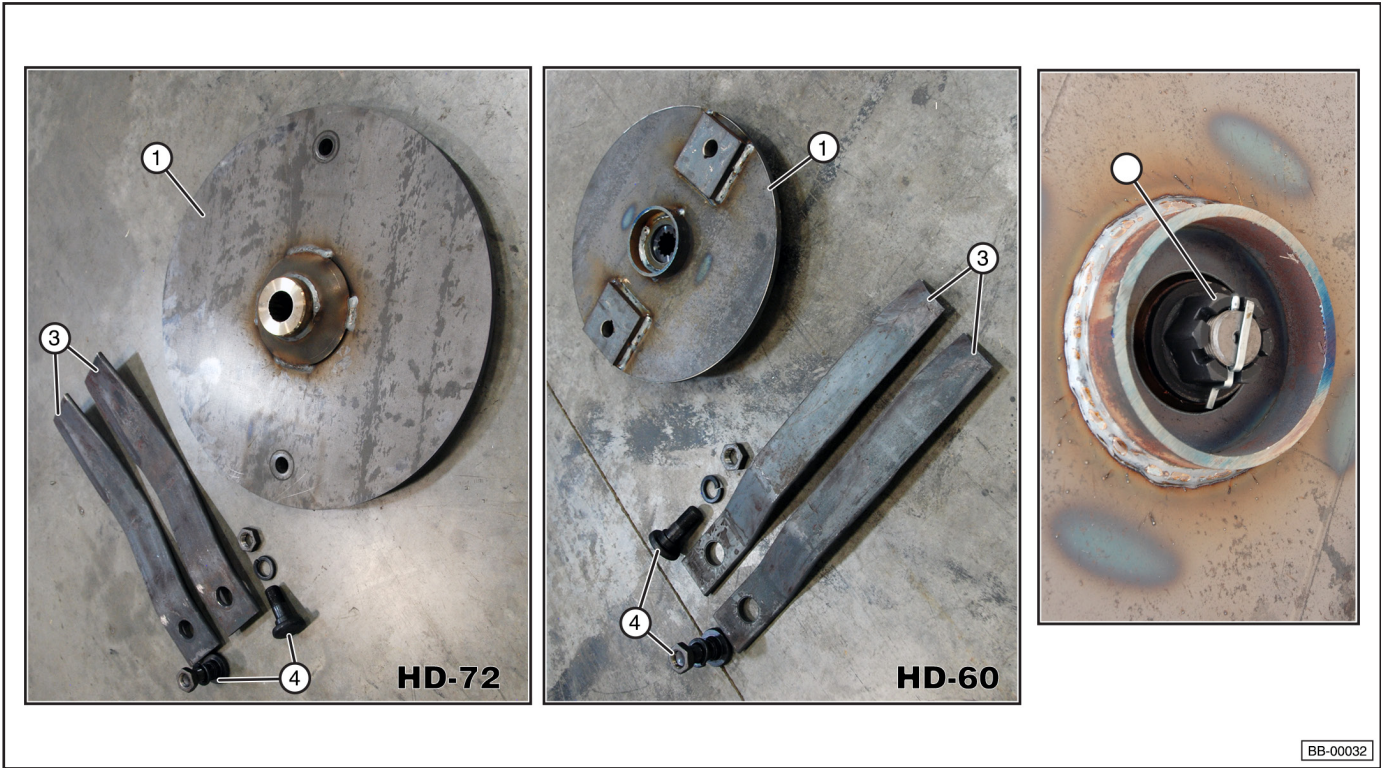
## 12.2 Hydraulic System



BB-00031

Item	Part Number	Description	Qty.
1	RV-10	Hyd. Pressure Cushion Valve	1
2	315300-FB	Cushion Valve Mounting Bolt	2
3	60-HKA 72-HKA	Hose Kit A, Loader to Valve (HD-60) Hose Kit A, Loader to Valve (HD-72)	1
4	60-HKB 72-HKB	Hose Kit B, Valve to Motor (HD-60) Hose Kit B, Valve to Motor (HD-72)	1
5	6400-810	JIC Fitting (HD-60) (HD-72)	4 6
6	6801-810	JIC Fitting, 90 Degree (HD-60)	2
7	8FFS	Hose Coupling Set, Flat Face	1
8	8FFM	Hose Coupling, Flat Face, Male	1
9	8FFF	Hose Coupling, Flat Face, Female	1
10	H-SPRING	Hose Spring (HD-72)	1

12.3 Blade Assembly



Item	Part Number	Description	Qty.
1	60-FW 72-FW	Flywheel (HD-60) Flywheel (HD-72)	1
2	60-CNCP 72-CNCP	Castle Nut with Cotter Pin (HD-60) Castle Nut with Cotter Pin (HD-72)	1
3	60-BS 72-BS	Blades (Set of 2) (HD-60) Blades (Set of 2) (HD-72)	1
4	BB-70S	Blade Bolts (Set of 2)	1

## NOTES

## NOTES







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