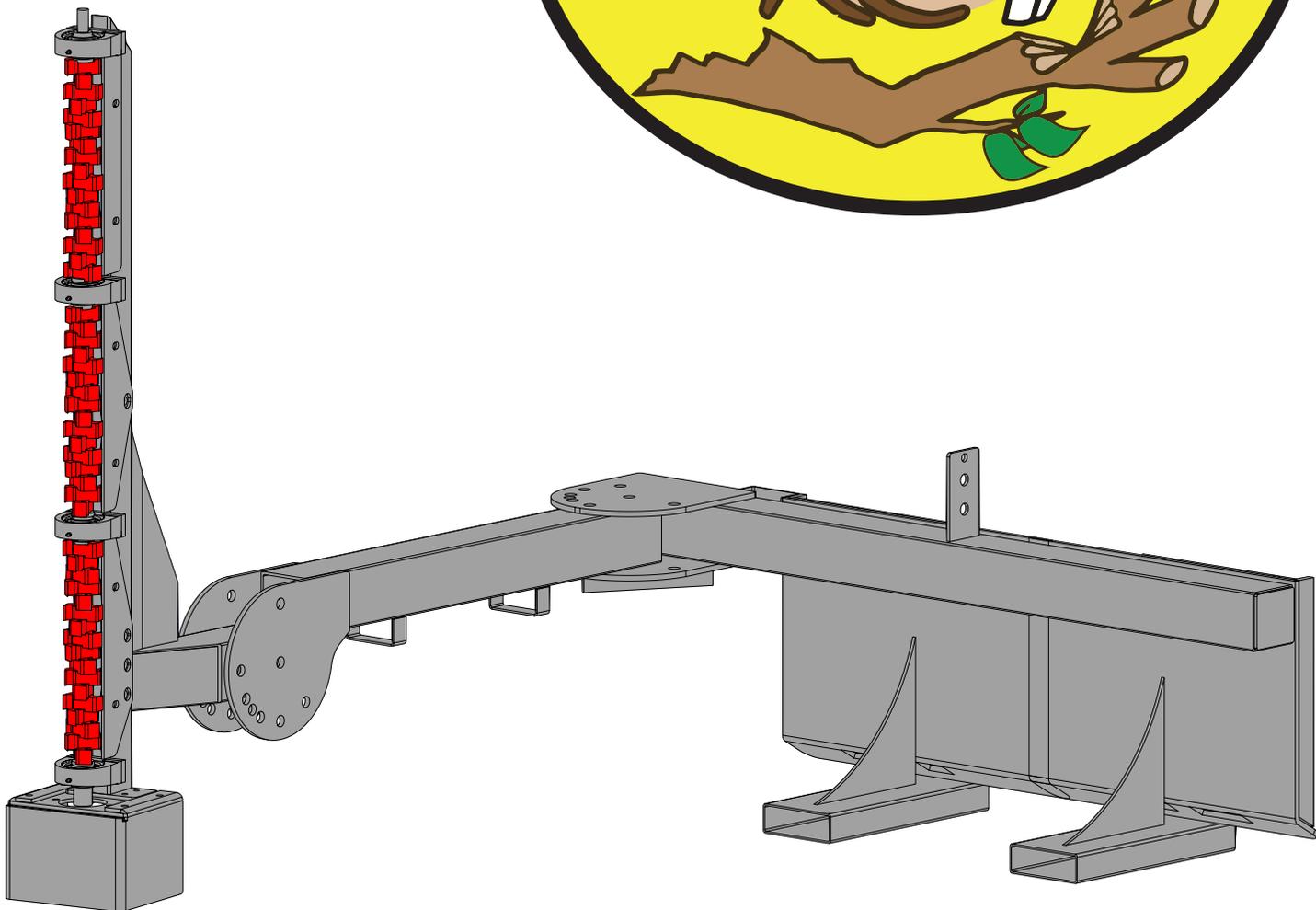


**Models:  
BB 4SS  
BB 4TR  
BB 4EX**



# **OPERATION AND PARTS MANUAL**

**Limb Beaver LLC**  
3566 Robbins Nest Rd  
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January 2026

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# Introduction

---

## 1. Introduction

Congratulations on your purchase of a Limb Beaver limb cutter.

Carefully examine the Limb Beaver upon receipt. Report any damage immediately to the freight carrier and register any claim.

Read and understand this manual before using the Limb Beaver and follow all of the safety instructions. Keep this manual with the Limb Beaver at all times.

Read and understand the carrier operators manual before operation and follow all of the safety instructions.

Information provided in this manual was current as of the issue date. Limb Beaver LLC. reserves the right to make design changes without further notice or liability.

This manual explains the operation and routine maintenance of the Limb Beaver.

Information furnished in this manual does not include all of the details of design, production, or variations of the equipment. It does not cover all the possible contingencies, which may arise during operation, setup, or maintenance. Should special issues arise, or further information be desired, please contact Limb Beaver.

The text contained in this manual is for current production models. Some instructions and maintenance procedures may not apply to your specific unit.

Equipment modifications from original design and specifications are strictly prohibited. Modifications or overloading may compromise safe operation of the Limb Beaver, subjecting users to serious injury or death and may void any remaining warranty.

Limb Beaver reserves the right to change, improve, modify or expand features of this equipment at any time. Specifications, models, or equipment are subject to change without notice, and without incurring any obligations to change, improve or expand features of previously delivered equipment. Because of the variations in optional equipment and continued design improvement, certain information contained within this manual may not apply.

This operators manual does not replace, nor does its use release the owner/operator from observing all safety codes or operating limitations as well as any applicable federal, state, provincial or local regulations.

The Limb Beaver is designed to be used by experienced operators, trained in the safe operation of a carrier and trained in the hazards related to using the Limb Beaver, and the safe use of the Limb Beaver for the intended purpose.

Serious injury or death of the operator or bystanders may be caused if the Limb Beaver is misused.

Misuse may also cause damage to the carrier carrying the Limb Beaver.

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

# Specifications

---

## 2. Specifications

Width ..... 48 in.  
Rotor Speed ..... 4000 RPM  
Cutting Teeth ..... 50  
Recommended Hydraulic Flow..... 5-15 GPM  
Maximum Limb Diameter..... 3 in.  
Approximate Weight ..... 365 lbs

# Safety

## 3. Safety

Before setting up, operating or servicing the Limb Beaver, you must read, understand and follow the instructions and safety warnings in this manual. Your machine may not be equipped with some of the optional equipment described in this manual.

If you have any safety concerns or questions that are not covered by this manual, please contact Limb Beaver.

The safety information in this manual is denoted by the safety alert symbol:  This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

The level of risk is indicated by the following signal words:

### DANGER

Indicates a hazardous condition that will result in serious injury or death if not performed appropriately.

### WARNING

Indicates a hazardous condition that could result in serious injury or death if not performed appropriately.

### CAUTION

Indicates a hazardous condition that could result in serious injury if not performed appropriately.

### NOTICE

Indicates a situation that could result in damage to the machine or other property.

## 3.1 Operation Hazards

The following hazards are possible during the operation of the Limb Beaver. All operators, maintenance and service personal, or any one working with or near the Limb Beaver must be familiar all hazards.

### DANGER

Prevent electrocution.

Death or serious injury can result if equipment comes near or contacts power lines.

Electrocution can occur without direct contact.

### WARNING

Do not operate the Limb Beaver until you read and understand this manual.

### WARNING

Do not operate, work on or around Limb Beaver while under the influence of alcohol, prescription or nonprescription medication, or if feeling ill.

### WARNING

Entanglement and severing hazard.

Disengage hydraulic flow and allow cutting head to stop before leaving operators seat.

### WARNING

Prevent death or serious injury.

Do not exceed carrier rated operating capacity.

# Safety

---

## WARNING

Prevent death or serious injury.

Operate the Limb Beaver with a carrier equipped with a Roll-Over Protective Structure (ROPS). The carrier must be equipped with an operator enclosure.

## WARNING

Pressurized fluids can penetrate the skin.

Hydraulic hoses can fail from age, damage and exposure.

Use body and face protection while searching for leaks. A tiny, almost invisible leak can penetrate the skin, thereby requiring immediate medical attention.

Use wood or cardboard to detect hydraulic leaks, never use your hands.

## WARNING

Wear personal protective equipment appropriate for the job.

## WARNING

This product can expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

## WARNING

Crush hazard.

A raised Limb Beaver can fall, resulting in death or serious injury.

Never enter the area under a raised Limb Beaver.

## WARNING

Do not make any alterations to this machine. Altering may cause machine to be unsafe and may void the manufacturers' warranty.

Always use Limb Beaver replacement parts. Not using Limb Beaver parts may void the warranty and/or cause harm to personnel or machine.

## WARNING

Safety is the responsibility of the operator.

Verify your carrier's safety features, including ROPs and FOPs meet your job safety requirements.

## WARNING

Prevent death or serious injury.

Do not attempt to operate Limb Beaver using forks through forklift pads.

Forklift pads are for handling and storage only.

# Safety

## NOTICE

**Do not use this equipment for any other purpose than it was designed.**

**Using this equipment for any other purpose could result in damage to equipment or injury to personnel.**

Carefully read all safety messages in this manual.

New equipment components and repair parts must include the current safety decal.

Learn how to properly operate this equipment.

Never operate or work around this equipment without proper instruction, while fatigued or under the influence of alcohol, prescription or nonprescription medication, or if feeling ill.

Keep your equipment in proper working condition. Know the regulations and laws that apply to you and your industry. This manual is not to replace any regulations or laws. Additional information may be found at: [www.asae.org](http://www.asae.org) or [www.osha.gov](http://www.osha.gov). If you do not understand any part of this manual, contact your Limb Beaver dealer.

### 3.1.1 Do Not Allow Riders

Never lift or carry anyone on the Limb Beaver. Never use the Limb Beaver as a work platform. Never allow riders on the Limb Beaver.

### 3.1.2 Hazards From Modifying Equipment

Do not make any alterations to the Limb Beaver. Altering the Limb Beaver may cause unsafe conditions and may void the manufacturer's warranty. Always use Limb Beaver replacement parts.

## 3.2 Maintenance Hazards

The following maintenance and service hazards are in addition to those found while operating the Limb Beaver. All operators, maintenance and service personnel, or any one working with or near the Limb Beaver must be familiar of all hazards. If you do not understand any part of this manual, contact Limb Beaver.

After performing inspections, service or maintenance, all guards must be reinstalled and verify all safety devices are functional.

Wear personal protective equipment appropriate for the job.

Always use Limb Beaver replacement parts. Not using Limb Beaver parts may cause harm to personnel and may void the warranty.

### 3.2.1 Lockout/Tagout

#### WARNING

**Entanglement and crush hazard.**

**Keep all personnel clear of all moving components.**

**Verify all guards are in place.**

**Follow lockout/tagout procedure before performing service, inspections or maintenance.**

Before performing service or maintenance:

- If Limb Beaver is connected to carrier:
  1. Park on a firm and level surface.
  2. Lower Limb Beaver to ground.
  3. Set parking brake.
  4. Stop engine and remove key.
  5. Place a Do Not Operate tag on control panel.
- If Limb Beaver is not connected to carrier:
  1. Verify Limb Beaver is on firm and level ground.

# Safety

## 3.3 Safety Decals

Safety decals are located on the equipment to identify both operational and maintenance hazards.

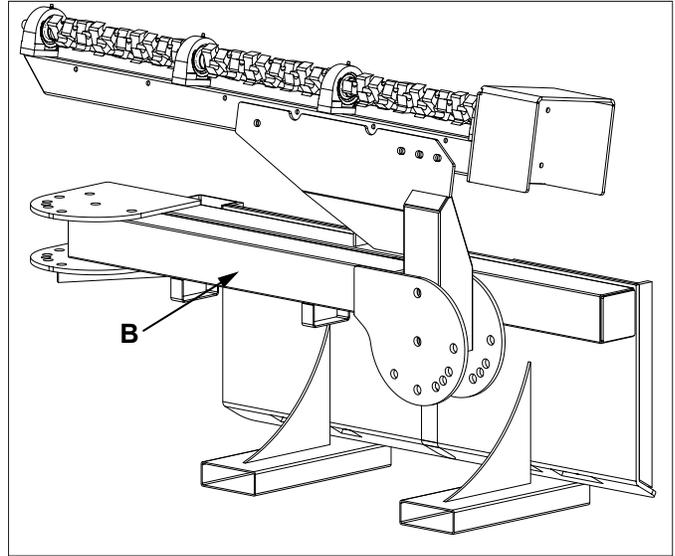
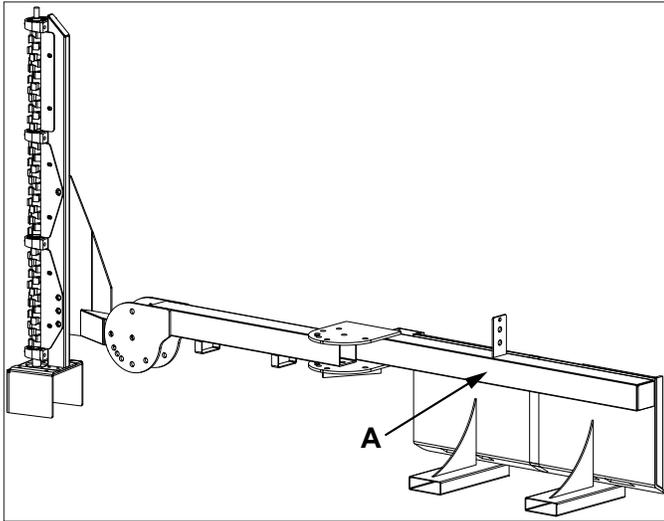
These safety decals are placed according to the hazard in that area of the machine.

Read and understand each safety decal and the hazard it references.

These safety decals are additional information to the safety content already described in this section of the operator's manual.

All safety decals must be legible at all times. Keep them clean by using a mild soap and water, avoid using harsh chemicals or pressure washing. If the safety decal is no longer legible, replace it with a new one.

Contact Limb Beaver for new decals.



Decal A - LBD-002



Decal B - LBD-003



## 4. Setup

### 4.1 Hydraulic Hoses

BB 4SS: Limb Beaver is equipped with hoses to connect to skidsteer hydraulic system. Route hydraulic hoses in a safe location.

BB 4TR: Limb Beaver provides hoses to a bulk head connector on top of the frame. Male hydraulic quick couplers are provided. You must provide hoses from tractor to the bulk head connector or valve.

BB 4EX: Hoses to connect excavator to the Limb Beaver hydraulic system are not provided.

The motor supply and return hoses must be 1/2 in. high pressure hydraulic hose, 3000 psi or higher.

The case drain hose must be 3/8 in. high pressure hydraulic hose, 3000 psi or higher.

Refer to the excavator operators manual or contact the dealer for information on where the pressure, return and case drain couplers on carrier are located.

Hoses must be long enough to allow for tilting and folding of the unit, and fitted with a mated female coupler.

#### **NOTICE**

**Prevent equipment damage.**

**Route hydraulic hoses in a safe location to avoid damage.**

All Models: Perform an initial startup and carefully move Limb Beaver to all positions to verify hoses will not be damaged. Reroute if damage may occur.

# Operation

## 5. Operation

### 5.1 Attach To Carrier

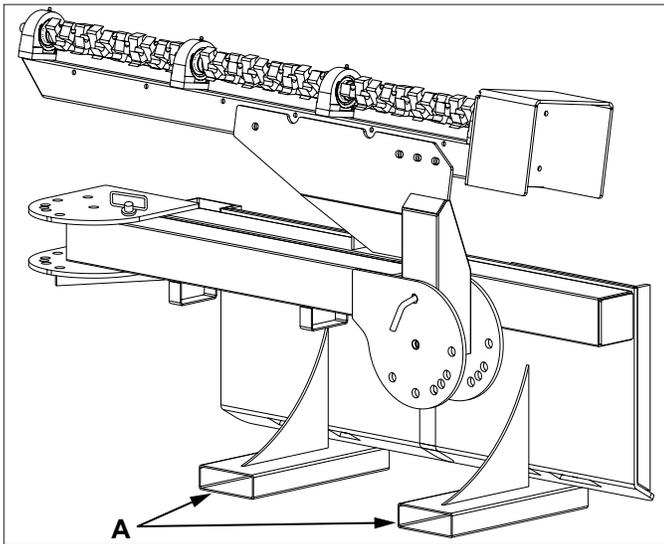
#### **⚠ WARNING**

Prevent death or serious injury.

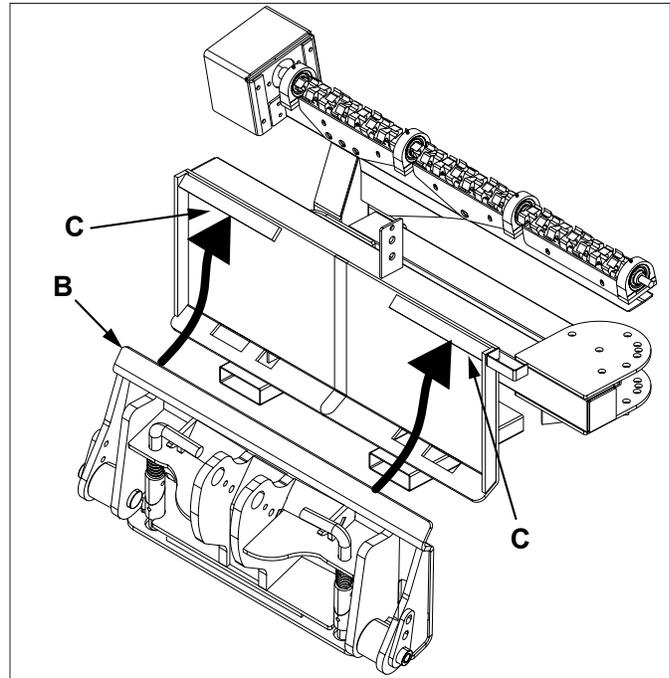
Do not attempt to operate Limb Beaver using forks through forklift pads.

Forklift pads are for handling and storage only.

Do not attempt to operate Limb Beaver using forks through forklift pads (A).



1. Verify the mount plate and receiver plate are free of any dirt or debris and that the locking mechanism pins rotate freely. Lubricate locking mechanism if necessary.
2. Skidsteer: Tilt carrier mount plate (B) forward. Position mount plate into the upper lip (C) of the receiver plate. Raise carrier loader arms slightly while tilting mount plate back at the same time. The Limb Beaver should be raised slightly off the ground with the mount plate (B) tilted all the way back.



Tractor: Attach Limb Beaver to tractor. See tractor operator's manual.

Excavator: Attach Limb Beaver to excavator. See excavator operator's manual.

3. Stop carrier engine.

#### **⚠ WARNING**

**Crush hazard.**

**If locking mechanism pins are not fully seated, the Limb Beaver could fall off of the carrier, crushing you or bystanders.**

**Locking mechanism pins must be fully seated through the Limb Beaver receiver plate.**

4. Skidsteer: Engage locking mechanism pins. Verify pins are fully seated through receiver plate.

Tractor: Verify pins are secure to lock Limb Beaver to tractor mount.

# Operation

Excavator: Verify pins are secure to lock Limb Beaver to excavator mount.

## **⚠ WARNING**

**Pressurized fluids can penetrate the skin.**

**Hydraulic hoses can fail from age, damage and exposure.**

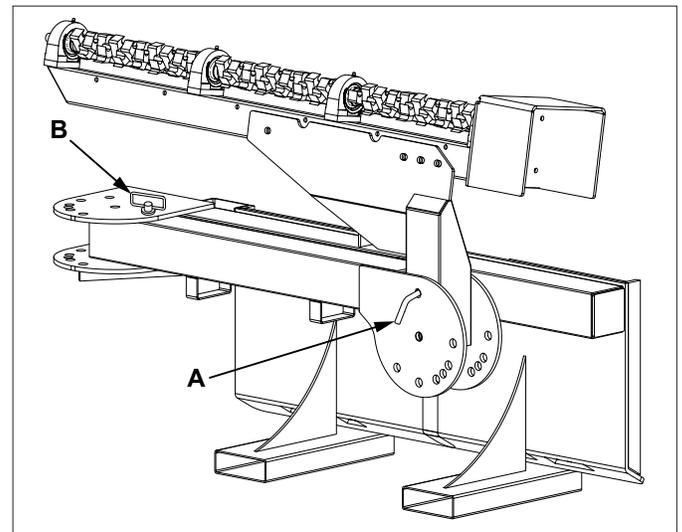
**Use body and face protection while searching for leaks. A tiny, almost invisible leak can penetrate the skin, thereby requiring immediate medical attention.**

**Use wood or cardboard to detect hydraulic leaks, never use your hands.**

5. Route hydraulic hoses in a safe area away from pinch points and moving parts. Connect pressure, return and case drain hydraulic hoses. Confirm hydraulic connections are secure.
6. Verify hydraulic hoses are clear of pinch areas and moving parts.

## 5.2 Detach From Carrier

1. Lower Limb Beaver on to a flat level surface.
2. Stop carrier engine and relieve hydraulic pressure.
3. Position cutting head in horizontal position and install pin (A). Install lynch pin through pin (A).
4. Move swing arm to the transport/storage position as shown and install pin (B) through main frame and swing frame. Install lynch pin through pin (B).



*Transport/Storage Position*

5. Disconnect hydraulic hoses.
6. Disengage locking mechanism pins.
7. Unlatch locks or pins and move carrier away from Limb Beaver.

# Operation

## 5.3 Transporting



**Prevent death or serious injury.**

**Keep Limb Beaver close to the ground. Operation with a raised Limb Beaver may result in carrier rollover.**

1. Raise Limb Beaver slightly off the ground.
2. Travel at a reasonable and safe speed with Limb Beaver in the folded transport position.

## 5.4 Daily Inspections

Thoroughly inspect the Limb Beaver before each operation.

Verify all safety signs are in place and clearly visible.

Check for loose or missing parts and any damage that may have occurred during operation, moving or shipping.

Check cutting teeth for wear or damage. Replace worn or damaged cutting teeth.

Review all carrier pre-start instructions and verify that all recommended steps and procedures have been followed.

## 5.5 Operating Limb Beaver



**Prevent electrocution.**

**Death or serious injury can result if equipment, tree or brush comes near or contacts power lines.**

**Electrocution can occur without direct contact.**



**Prevent death or serious injury.**

**Only experienced and properly trained operators may operate carrier and Limb Beaver.**



**Prevent death or serious injury.**

**Keep bystanders 300 feet away from Limb Beaver during operation.**



**Entanglement and severing hazard.**

**Keep away from moving parts**



**Safety is the responsibility of the operator.**

**Verify your carrier's safety features, including ROPs and FOPs meet your job safety requirements.**

## Operation

### **⚠ WARNING**

Moving parts can crush and dismember.

Disconnect and lockout power source before adjusting or servicing.

### **⚠ WARNING**

Do not operate, work on or around Limb Beaver while under the influence of alcohol, prescription or nonprescription medication, or if feeling ill.

### **⚠ WARNING**

Entanglement and severing hazard.

Disengage hydraulic flow and allow cutting head to stop before leaving operators seat.

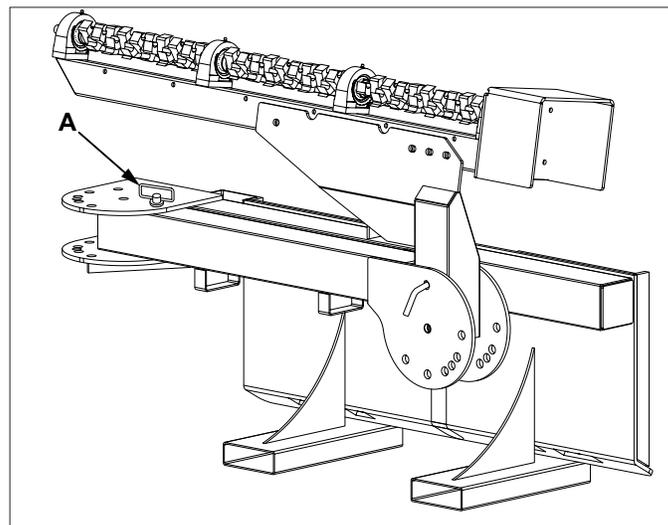
### **NOTICE**

Prevent equipment damage.

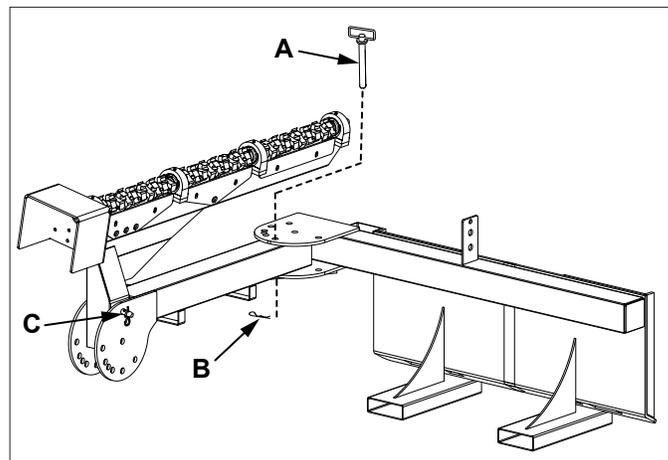
If carrier is equipped with a low/high flow hydraulic system, operate Limb Beaver on low flow.

1. Attach Limb Beaver to carrier. See Section 5.1 Attach To Carrier.
2. Inspect work area for obstructions, power lines and other obstacles. Also inspect the area where the carrier will travel for holes, ruts and other obstacles that could effect the stability of the carrier.
3. Stop carrier engine.

4. Remove lynch pin and pin (A).



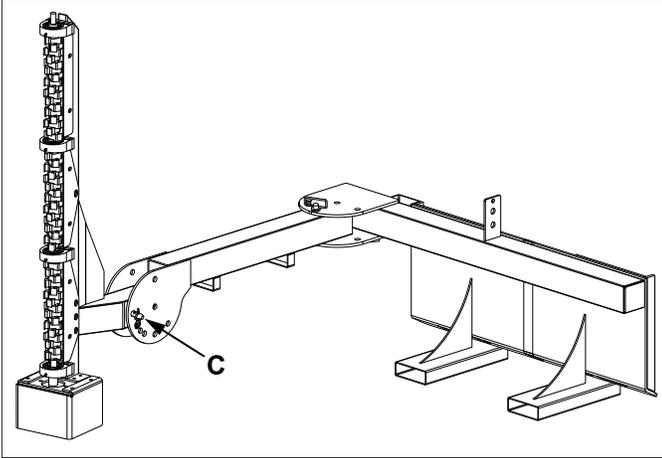
5. Move swing arm to the desired working position.
6. Install pin (A) through appropriate holes in main frame and swing frame. Install lynch pin (B) through pin (A). Swing frame must be locked in position before operation.



7. Remove lynch pin and pin (C).

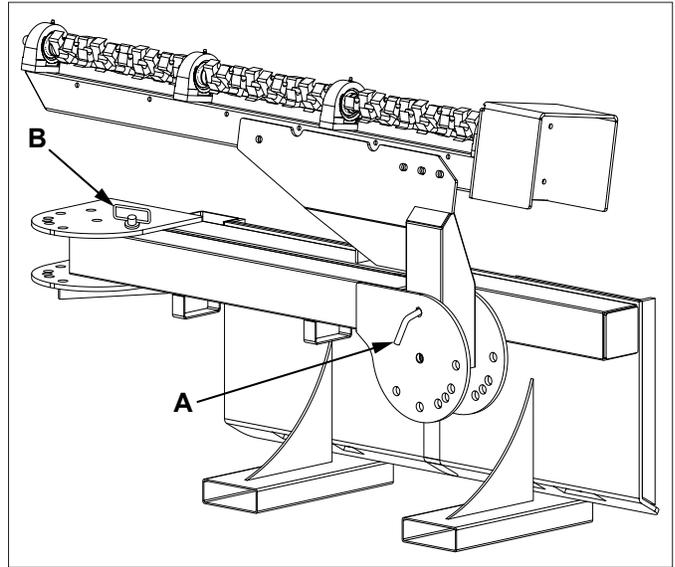
## Operation

8. Move cutting head to desired working position and reinstall pin (C) through appropriate holes in tilt frame and swing frame. Install lynch pin through pin (C).



9. Verify everyone is clear of the area, start carrier and move to an open area to test functions.
10. With carrier engine running at low idle, engage hydraulics.
11. Operate cutting head to get a feel for the controls.
12. Move to work area and increase carrier engine speed to high idle and begin operation. Raise Limb Beaver and position cutting head as needed for desired cut. Travel at a slow pace. If cutting head stalls, stop carrier and allow head to regain speed before continuing operation.
13. When operation is completed, decrease carrier engine speed to low idle.
14. Disengage hydraulic flow and allow cutting head to stop.
15. Lower Limb Beaver to ground.
16. Stop carrier engine.

17. Position cutting head in horizontal position and install pin (A). Install lynch pin through pin (A).
18. Move swing arm to the transport/storage position as shown and install pin (B) through main frame and swing frame. Install lynch pin through pin (B).



# Maintenance

## 6. Maintenance

### **⚠ WARNING**

**Entanglement and crush hazard.**

**Follow lockout/tagout procedure before performing service, inspections or maintenance.**

Before performing service or maintenance:

- If Limb Beaver is connected to carrier:
  1. Park on a firm and level surface.
  2. Lower Limb Beaver to ground.
  3. Set parking brake.
  4. Stop engine and remove key.
  5. Place a Do Not Operate tag on control panel.
- If Limb Beaver is not connected to carrier:
  1. Verify Limb Beaver is on firm and level ground.

### **⚠ WARNING**

**Pressurized fluids can penetrate the skin.**

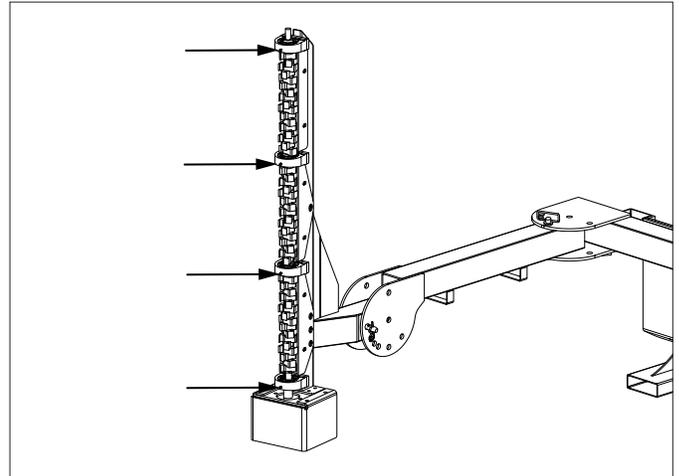
**Hydraulic hoses can fail from age, damage and exposure.**

**Use body and face protection while searching for leaks. A tiny, almost invisible leak can penetrate the skin, thereby requiring immediate medical attention.**

**Use wood or cardboard to detect hydraulic leaks, never use your hands.**

## 6.1 Lubrication

Grease bearings twice per day with two pumps of a general purpose grease.



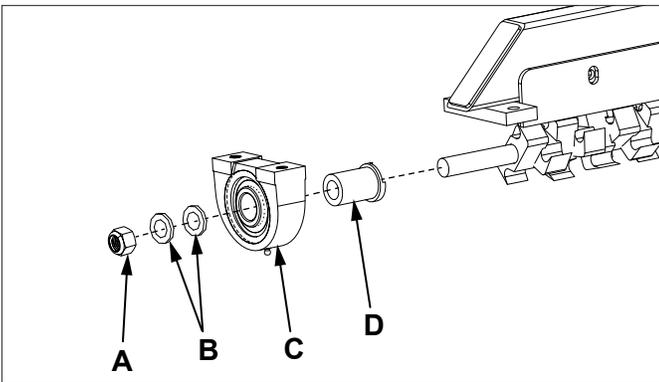
# Maintenance

## 6.2 Replace Cutting Teeth Or Drum Bearing

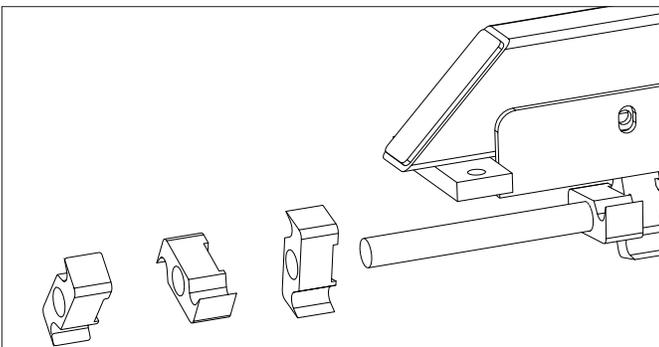
1. Be sure all teeth are aligned and locked into position. Align any tooth that has ramped up and is out of line before attempting to loosen lock nut. Failure to do so could result in the failure of some parts.
2. Lower cutting head to the ground. Stop engine and remove key. Place a Do Not Operate tag on control panel.

**Note:** During disassembly, note orientation and sequence of parts for reassembly.

3. Remove locknut (A), washers (B), bearing (C) and bushing (D).

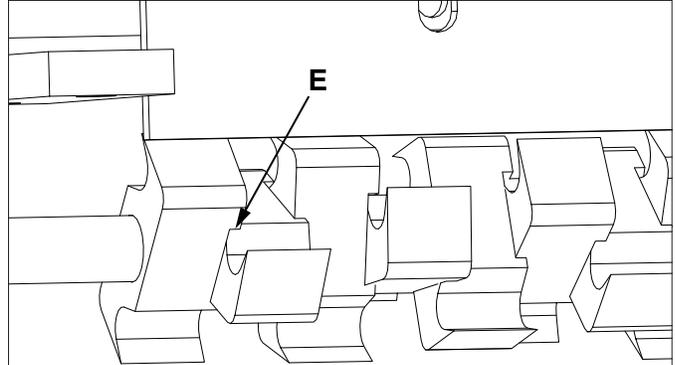


4. Remove teeth as needed to get to broken tooth. If broken tooth is below a bearing, that bearing will need to be removed, similar to bearing (C).



5. Apply anti-seize to exposed area of shaft.

6. Replace teeth with notched side of tooth (E) facing the drive motor. Verify teeth are interlocked together as shown. Always install new tooth for each tooth removed.



7. Install bushing (D), bearing (C), washers (B) and locknut (A).
8. Tighten locknut (A) to 275 lb-ft of torque.

# Troubleshooting

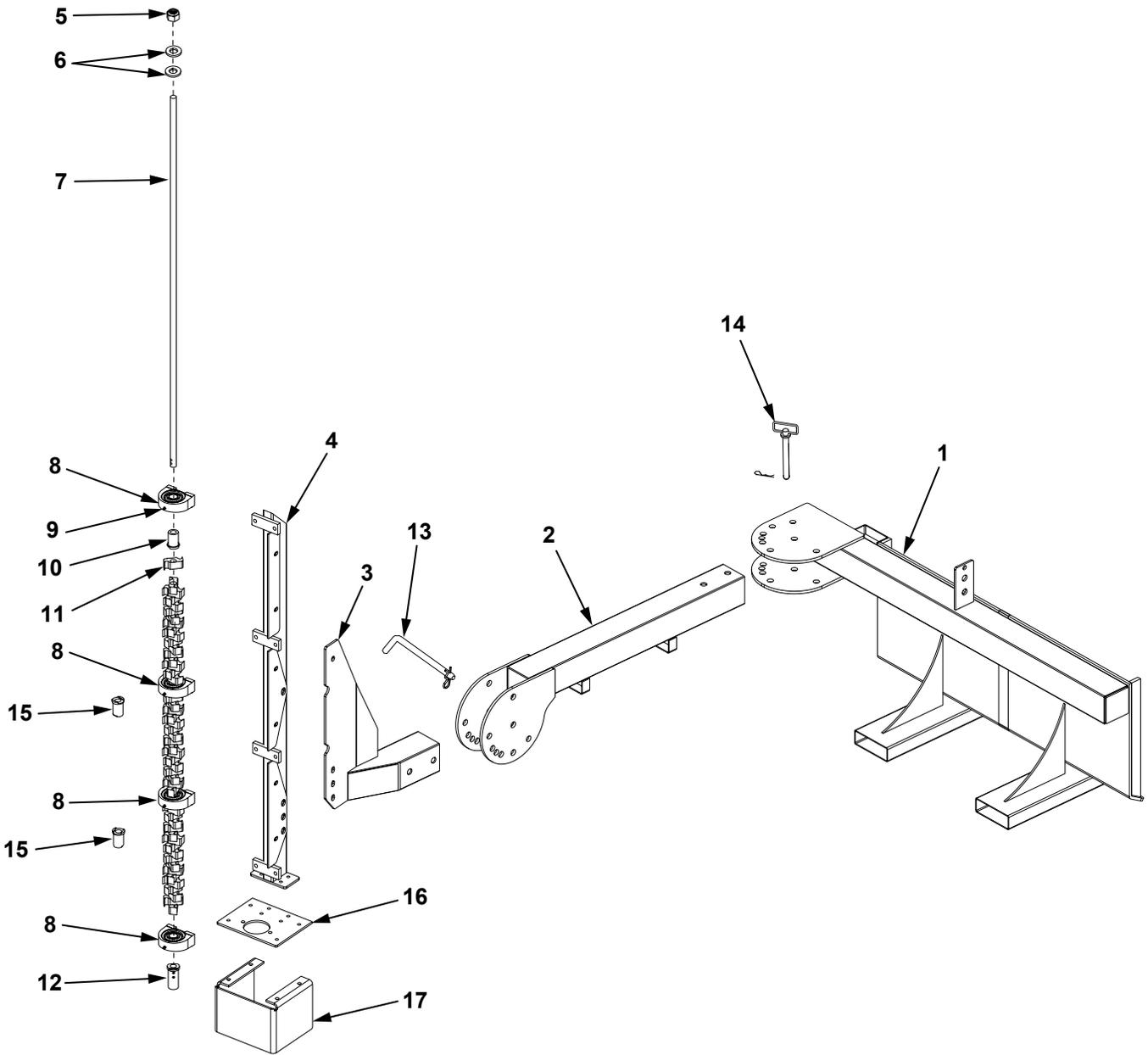
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## 7. Troubleshooting

PROBLEM	CHECK	SOLUTION
Cutting head does not spin.	Cutting head jammed.	Remove material from cutting head.
	Carrier oil level low.	Check oil level. Add if necessary.
	Carrier oil flow low.	Check flow control on carrier.
Cutting head rotates slow.	Carrier oil level low.	Check oil level. Add if necessary.
	Carrier oil filter plugged.	Replace oil filter.
	Carrier oil flow low.	Set relief pressure to motor specification. Contact your dealer.
Excessive vibration.	Cutting teeth worn or missing.	Replace worn, broken or missing teeth.
	Debris lodged in cutting head.	Remove debris.
Low cutting power.	Low carrier flow or pressure.	Check hydraulic pump flow and pressure. Contact your carrier dealer

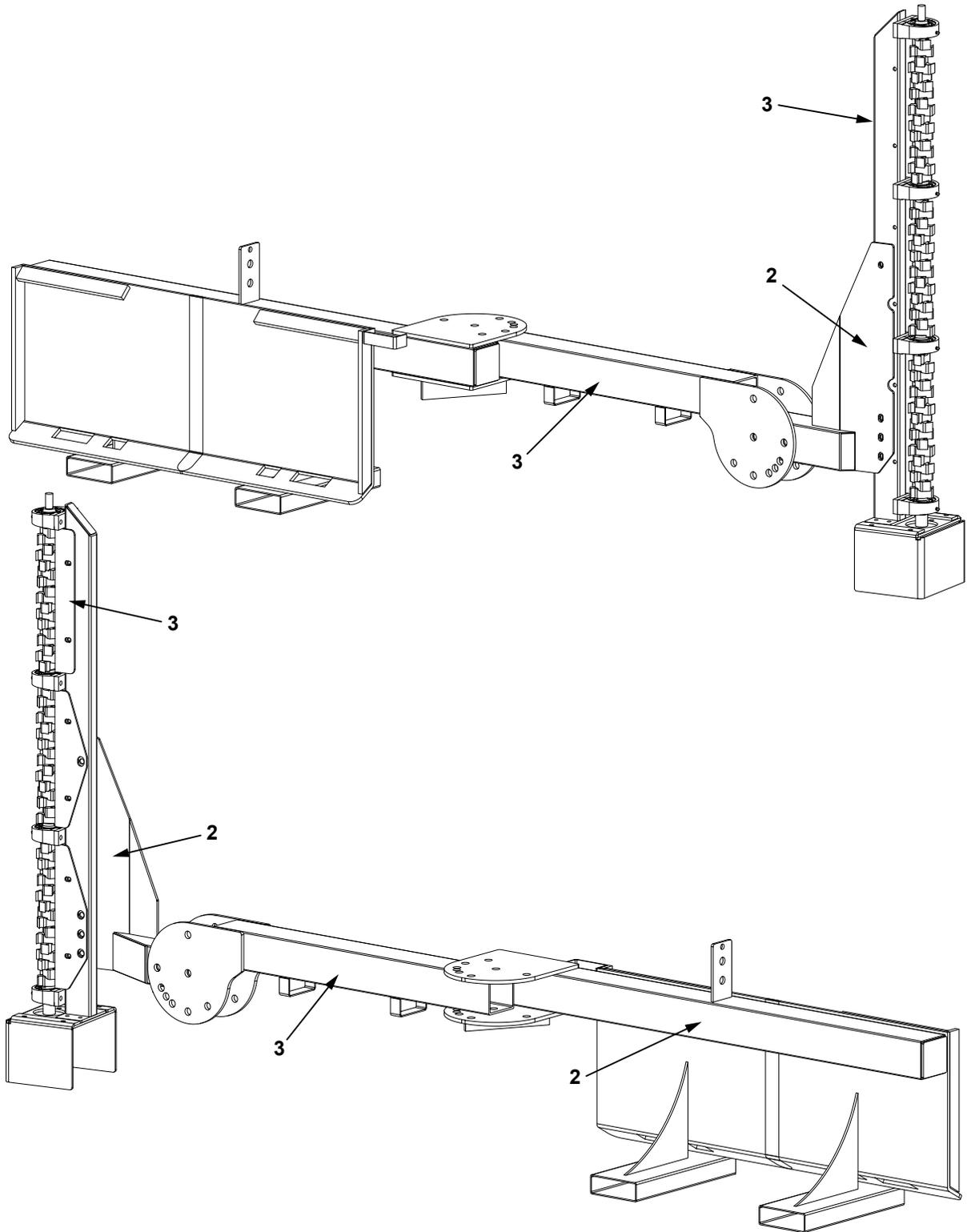
# Parts

## 8. Parts





# Parts





# Warranty

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## 9. Warranty

Limb Beaver LLC warrants to the original purchaser that the product will be free from defects in material and workmanship for one year from the date of purchase by the original purchaser.

Under no circumstances will this warranty cover any claimed defective part or component, which, in the opinion of Limb Beaver LLC has been subjected to misuse, unauthorized modification or alteration, or to an accident.

Obligation of Limb Beaver LLC under this warranty shall be exclusive and be limited to repairing or replacing, free of charge, any part or component that, in the judgment of Limb Beaver LLC, shows evidence of such defect, provided further that such part shall be returned within thirty (30) days from date of failure to Limb Beaver LLC or its designee, transportation charges prepaid. This warranty does not cover any transportation costs.

Under no circumstances will Limb Beaver LLC be liable for any consequential damage or expense of any kind, including loss of profits. Limb Beaver LLC is under no circumstances liable for carrier unit damage of any kind. Limb Beaver LLC is not liable for the maintenance of the product. Limb Beaver LLC will not cover time to diagnose and repair compatibility issues between carrier and attachment.

Limb Beaver LLC reserves the right to make improvements or changes in design or manufacturing specifications at any time, without incurring any obligation to owners of units previously sold. No one is authorized to alter, modify or enlarge this warranty nor the exclusions, limitations and reservations.

# *Warranty*

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