



ROTATING TREE SHEAR



USE AND MAINTENANCE GUIDE

| NON ROTATING | MANUAL ROTATING | HYDRAULIC ROTATING |
|--------------|-----------------|--------------------|
| NRTS | TRSHM | TRSH-HYD |



Scan QR code for a digital version of this manual
Read and understand the manual. This manual provides information and
procedures to safely operate and maintain the Rotating Tree Shear.



October 2023



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WWW.IRONCRAFTUSA.COM

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REGISTER THIS PRODUCT

WWW.IRONCRAFTUSA.COM/WARRANTY/REGISTER-WARRANTY/

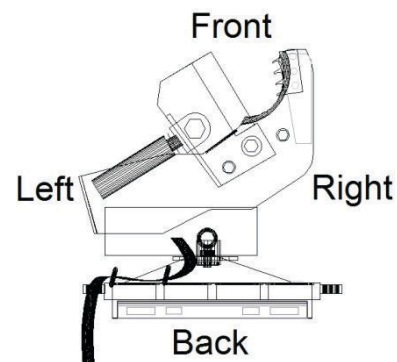
PURCHASE DATE

DEALER NAME

ADDRESS

PHONE NUMBER

SERIAL NUMBER
PLATE IS LOCATED
ON TOP OF THE
MOUNTING PLATE



MODEL

SERIAL



"WHY WOULD I WANT TO REGISTER MY MACHINE?"

HERE'S THE LOWDOWN. YOU NEED TO REGISTER YOUR NEW PRODUCT WITHIN 30 DAYS OF DELIVERY. WITHOUT REGISTRATION, YOUR WARRANTY CLAIMS WILL NOT BE HONORED.

Registering your machine means you get the full benefits of the warranty terms we offer.

Scan this QR code to our warranty page and select the "REGISTER" tab for an easy-peasy process.

You'll be glad you did.



THANK YOU

Dear Owner:

We appreciate your business and thank you for choosing Ironcraft as your provider of quality skid steer attachments. We are committed to providing you with a heavy duty product that will provide years of satisfaction and safe operation.

This manual will provide instructions on how to safely operate and maintain the Rotating Tree Shear. All users must read and understand this manual before operating this machine. Upon reading this manual, all users should sign the "Safety Acknowledgement Form" at the end of this manual. DO NOT discard this manual. This manual should be kept with the attachment and be available for all users to read.

Please record your model and dealer information on the inside front cover. You will be asked to provide this information when ordering parts or requesting service. If you need more information on this product, contact your local dealer or visit www.ironcraftusa.com.


Sincerely,


 **IRONCRAFT.**

The Ironcraft Team

MODEL COMPARISON

| ROTATING TREE SHEAR | | | |
|---------------------|------------------------------|----------------------------------|--------------------|
| | NON ROTATING | MANUAL ROTATING | HYDRAULIC ROTATING |
| MODEL | NRTS | TRSHM | TRSH-HYD |
| SHEARING FORCE | 40 tons | | |
| DEGREE OF ROTATION | | 90 degrees | |
| CYLINDER SIZE | 5" x 12" | | |
| WIRING HARNESS | | Universal, 7pin, 8pin, or 14 pin | |
| BLADES | 1" thick AR400 | | |
| NOTES | Capable of cutting 12" trees | | |

 **NOTICE**
Illustrations and drawings in this manual may not reflect the actual product or part in exact detail, but are intended for reference only.

 **NOTICE**
Information in this manual is subject to change without notice.

SAFETY INFORMATION

1.1 INTRODUCTION

The following terms are used interchangeably throughout this manual.

| ROTATING TREE SHEAR | SKID STEER | OPERATOR |
|---|--|-----------------|
| implement, attachment, product, machine, tree shear | skid steer loader, skid steer tractor, loader, prime mover | user, personnel |

This ROTATING TREE SHEAR attachment is designed to be attached to a skid loader, for soil tilling purposes only. The manufacturer concludes this product is safe if used as intended. In no event shall the manufacturer, distributor, or dealer be liable for any direct, indirect, punitive, incidental, or consequential damages to property or life arising out of or connected with the misuse of this product.



BEFORE YOU OPERATE THIS TREE SHEAR:



KNOW

how to safely operate your skid steer loader.

READ AND UNDERSTAND

the safety instructions and operating procedures contained in this manual.

ACKNOWLEDGE

your understanding of all safety instructions presented in this manual by signing the "Safety Acknowledgement Form" at the end of this manual.

Although every effort has been made to ensure a safe product, every possible circumstance that could pose a potential hazard cannot be anticipated. The safety warnings in this manual and on this product, are therefore not all-inclusive.

In addition to the safety messages presented in this section, you must also read and understand the safety messages presented in the other sections of this manual.

1.2 SAFETY SYMBOLS

This manual and decals on this machine use safety symbols, pictograms and color coded signal words to alert you to potential hazards that may cause death or severe injury if a safety instruction is ignored. Become familiar with the following symbols.



SAFETY ALERT SYMBOL

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

HAZARD CLASSIFICATIONS

Hazards are identified by the “Safety Alert Symbol” and followed by the signal word “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 a situation which may cause damage to equipment or property. Messages are not related to personal injury.

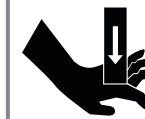


SAFETY INSTRUCTIONS

Indicates specific safety-related instructions or procedures.

SAFETY PICTOGRAMS

Pictograms are graphic symbols meant to alert you of a potential hazard. Read and understand the hazard description for each of these symbols.



PINCH HAZARD

Keep clear of skid steer and brush cutter machine to prevent death or serious injury from pinching of moving parts.



OPERATING MANUAL:

Operators must read and understand the safety instructions in the operating manual to prevent death or serious injury.



EYE PROTECTION & CARDBOARD:

Operators and Maintenance personnel must wear proper eye protection and use cardboard or wood to investigate hydraulic leaks to prevent death or serious injury from being injected with high pressure hydraulic fluid.



HIGH PRESSURE FLUID

INJECTION HAZARD:

Operators and Maintenance personnel must not place fingers or hands directly over a hydraulic leak to prevent death or serious injury from being injected with high pressure hydraulic fluid.

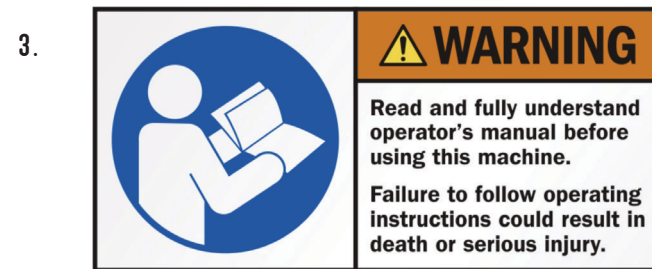
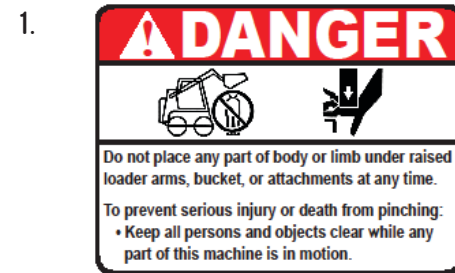


CRUSH HAZARD:

DO NOT place any part of the body under the machine or skid steer arms to prevent death or serious injury from being crushed.

1.3 SAFETY DECALS

The safety decals affixed to this machine are in place to keep you safe. DO NOT ignore these decals. Read and understand each decal's safety message. The following safety decals are affixed to this machine:



SAFETY INSTRUCTIONS

- Decals must be kept clean and legible at all times.
- Operators must inspect the machine for safety decals.
- Replace missing, worn or damaged decals immediately.
- Use care when cleaning the machine. When using a hot pressure washer make sure water jet is not too close to the decal as this may cause the decal to peel.
- When replacing parts, be sure safety decals are in place prior to using the machine.
- Make sure metal surface is dry and free of dirt and grease before applying a new decal to this machine.
- Contact your local dealer to order replacement decals.

SAFETY DECAL LOCATIONS



| REF | DESCRIPTION | QTY. |
|-----|--|------|
| 1 | Danger label crush and pinch hazard | 1 |
| 2 | High-pressure fluid hazard warning label | 1 |
| 3 | Do not operate machine Before reading owner's manual Warning label | 1 |

1.4 SKID LOADER REQUIREMENTS

CAUTION



Ensure your skid steer loader is in good operating condition. Follow the operating instructions found in your skid steer operator's manual. Failure to do so could result in minor or serious injury.



NOTICE



All operators should wear hearing protection, hand protection and safety glasses while operating this machine.



1.5 GENERAL SAFETY INSTRUCTIONS

Below are general safety instructions that relate to the overall operation and maintenance of this machine. It is important that you read and understand each message to prevent serious injury or death.



ALWAYS

watch for overhead power lines.



USE

this machine to move materials only.



DO NOT

allow riders on the skid steer loader or on this attachment.



DO NOT

operate this machine during severe weather.



NEVER

use drugs or alcoholic beverages while operating or servicing this machine.



ALWAYS

operate this attachment during daylight or well-lit areas.



PREVENT

the skid loader and implement from rolling forward, stop the engine and set the parking brake when exiting the cab.



INSPECT

implement for missing or loose hardware prior to use.



DO NOT

allow children to play on or around this equipment at any time. Store this implement in an area not frequented by children.



ALWAYS

wear the proper personal protection equipment while operating or servicing this machine. NEVER operate or service this machine with bare feet, sandals, or other light footwear.



DO NOT SPEED!

Keep your driving speed between 2 and 5 mph.



ENSURE

load does not become entangled with surrounding objects that could compromise the center of gravity resulting in a roll-over.

OPERATING PROCEDURES

2.1 UNPACKING YOUR BRUSH CUTTER

Your attachment arrives from the factory strapped to a wood pallet, and requires no final assembly. Use a pair of tin snips to remove the steel strapping.



CAUTION

Shipping straps are under great tension, and could lash out uncontrollably when cut causing injuries to your body. Keep bystanders away and wear safety glasses and gloves while removing the straps.

2.2 HOW TO MOUNT ROTATING TREE SHEAR

Refer to your skid loader's operator's manual for specific instructions on how to mount and dismount your attachment.

GENERAL ATTACHMENT METHOD

1. Enter operator's cab and start skid loader engine.
2. Tilt the skid loader quick attach coupler slightly down and drive forward to the rear of the cutter until the top edge of the quick attach coupler connects into the attachment mounting bracket.
3. Slightly tilt the skid loader quick attach coupler up until the coupler and mounting bracket fully engage.
4. Activate the coupler pin mechanism to lock the pins into the attachment bracket. If your skid loader does not have this mechanism, shut the skid loader engine off and exit the cab.
5. Push the skid loader quick attach locking levers down until you can see the coupler pins extend into the slots on the attachment bracket. (See Figure 2.2b on right)

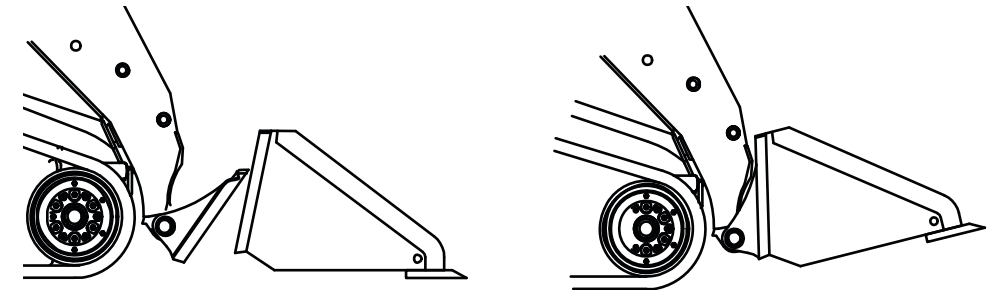


FIGURE 2.2A QUICK ATTACH MECHANISM LOCKED TO ATTACHMENT



WARNING

To avoid serious injury or death, ensure coupler pins fully extend through the slots on the attachment bracket and that levers are down in the locked position to prevent attachment from detaching from the prime mover.

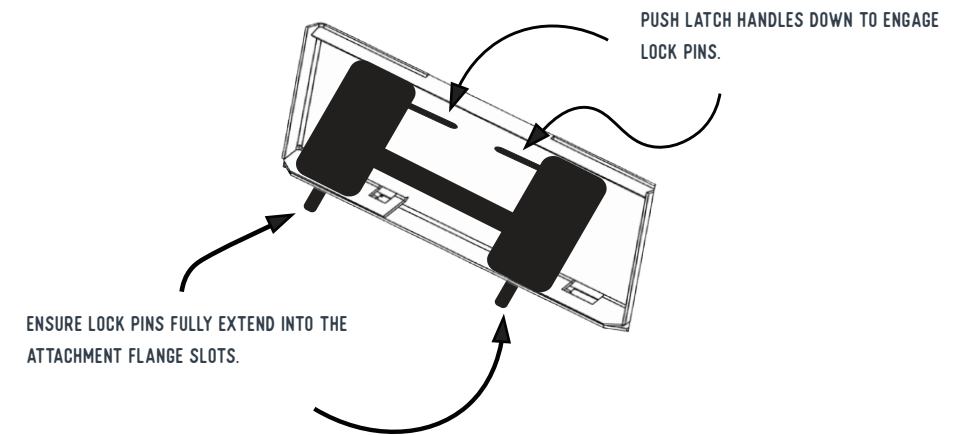


FIGURE 2.2B QUICK ATTACH MECHANISM LOCKED TO ATTACHMENT PLATE



NOTICE

To keep contaminants from entering the hydraulic system, use a clean cloth to wipe away dirt and grease from the hydraulic couplers.

6. Connect hydraulic hoses to the auxiliary supply couplers located on your skid loader's lift arm.

2.3 HOW TO DISMOUNT ROTATING TREE SHEAR

1. Turn off auxiliary hydraulic circuit; relieve hydraulic pressure.
2. Park skid steer on a flat and level surface then lower the shear to the ground.
3. Set parking brake and disengage lock pins using the lock lever switch (if installed).
4. Turn off skid steer engine.
5. Disconnect hydraulic hoses.
6. Pull latch handles to disengage lock pins.
7. Re-enter cab and start skid steer engine.
8. Tilt mounting coupler forward until mounting bracket is free from mounting plate.
9. Drive skid steer backward to clear the tree shear.

2.4 TREE SHEAR CONTROLS



WARNING

Review the “Controls” section of your skid steer owner’s manual before operating this trencher. Be familiar with the function of all controls to prevent a serious injury or death.



NOTICE

Before operating this attachment, check the skid loader’s hydraulic oil level and add oil if necessary.

TREE SHEAR CONTROLS

Your Tree shear is designed to run off the skid steer loader’s auxiliary hydraulic system. The auxiliary hydraulic system is activated and deactivated by a control in the operator’s cab.

Operate the height and tilt functions of this tiller with the control handles or pedals in the cab.

Consult your skid steer operator’s manual for precise instructions regarding these functions.

ROTATING TREE SHEAR (HYDRAULIC ROTATING)

Attach the electrical harness to the appropriate 12 volt source on the skid steer and place the switch in the operator’s compartment. There is a magnet on the back of the switch box to allow you to place the switch at a location inside the cab of your choice.

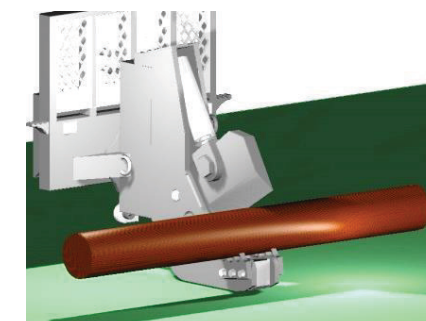
2.5 ROTATING THE SHEAR HEAD

MANUAL MODELS

1. With a coworker at a safe distance from the attachment, raise the attachment 18” off the ground.
2. Shut off the skid steer engine and remove your hands from the skid steer controls.
3. Motion to your coworker to stand on the right side of the shear and pull the safety pin and lock pin from the top of the shear.
4. When both the safety and lock pin has been pulled, rotate shear head 90 deg (counterclockwise) until the pin bracket aligns with the lock bushing.
5. Insert the lock and safety pin.
6. With your coworker at least 100 feet from the work area, start skid steer engine and resume tree shear operations.
7. To return shear head to the regular position, repeat above procedure in reverse.

VERTICAL POSITION OF SHEAR HEAD

When the shear head is rotated into the vertical position, already felled trees can easily be cut to length.



2.6 INITIAL USE PROCEDURE

STARTING THE TREE SHEAR

With the tiller properly connected to the skid steer loader:

Set skid steer loader RPM to just above idle and engage the auxiliary hydraulic switch.



DANGER

Never operate the shear when bystanders are within 100' (30 m) of your work area. Flying or falling debris could result in death or serious injury.

STOPPING THE TREE SHEAR

The Tree Shear blade quits moving when the auxiliary control is neutralized.

START HERE

01

PRIME MOVER CHECK

Before operating the tree shear check the prime mover's hydraulic oil level and add oil if necessary.

02

HYDRAULIC HOSES

Verify that hydraulic hoses are securely locked to the skid steer hydraulic couplers before starting the tiller.

03

LIFT ATTACHMENT 6" OFF THE GROUND

After starting skid steer, lift attachment 6 inches off the ground surface:

04

SKID STEER

With the skid steer engine RPMs just above idle, activate the skid steer's auxiliary hydraulic system to open the shear arm.

05

MOVE

the auxiliary hydraulic flow switch in opposite directions to open and close the shear arms. Repeat this three times.

06

HYDRAULIC MODEL

If you are operating a hydraulically controlled model, operate this function in opposite directions three times.

07

LOWER

the tree shear attachment to the ground and shut off skid steer engine.

08

CHECK

for hydraulic leaks, and add oil if necessary.

2.7 TREE SHEAR OPERATIONS

BEFORE CUTTING TREES

Inspect the work area for any objects that could be damaged if a tree fell on it. The tree shear will fall the tree to the right side of the shear, but in certain conditions (strong winds, leaning tree), the tree might not always go in the intended direction. Tree top branches could entangle with other tree branches and alter the course of the tree fall.



DANGER

Never cut trees in the proximity of any above-ground utilities. Felling a tree on electrical power lines and making contact with your skid steer or bystanders will result in death or serious injury from electric shock.

CUTTING TIPS

OPERATE

at a safe speed that will allow you to watch the area around the shear and loader.

STUDY

which direction the tree is likely to fall so it does not end up crashing onto you in the skid steer.

HARDWOOD TREES OF UP TO 12"

may require a second "bite" and shear action to penetrate through the tree. Locust, Osage Orange, Hickory, Oak & Ironwood may require a second shear action.

NEVER

use the shear attachment to push, pull, lift or move any type of objects including vehicles.

DO NOT

use the shear as a stump remover.

CLEAN OUT

any limbs that may accumulate around the shear's cylinder or pivot areas.

NEVER

shear trees from the lower side of a hill or sloped area. Reposition your skid steer and attachment to a location above the ground-line elevation of the tree being cut.

NEVER

exit the skid steer cab with the shear in the raised position.

NEVER

walk or lay under the attachment in a raised position.

TREE CUTTING PATTERN PLAN

Determine a safe cutting pattern before the start of a cut. If trees are going to be dragged with a skidder to a landing, plan your cut so the sheared ends of the trees are facing towards the landing or access path.

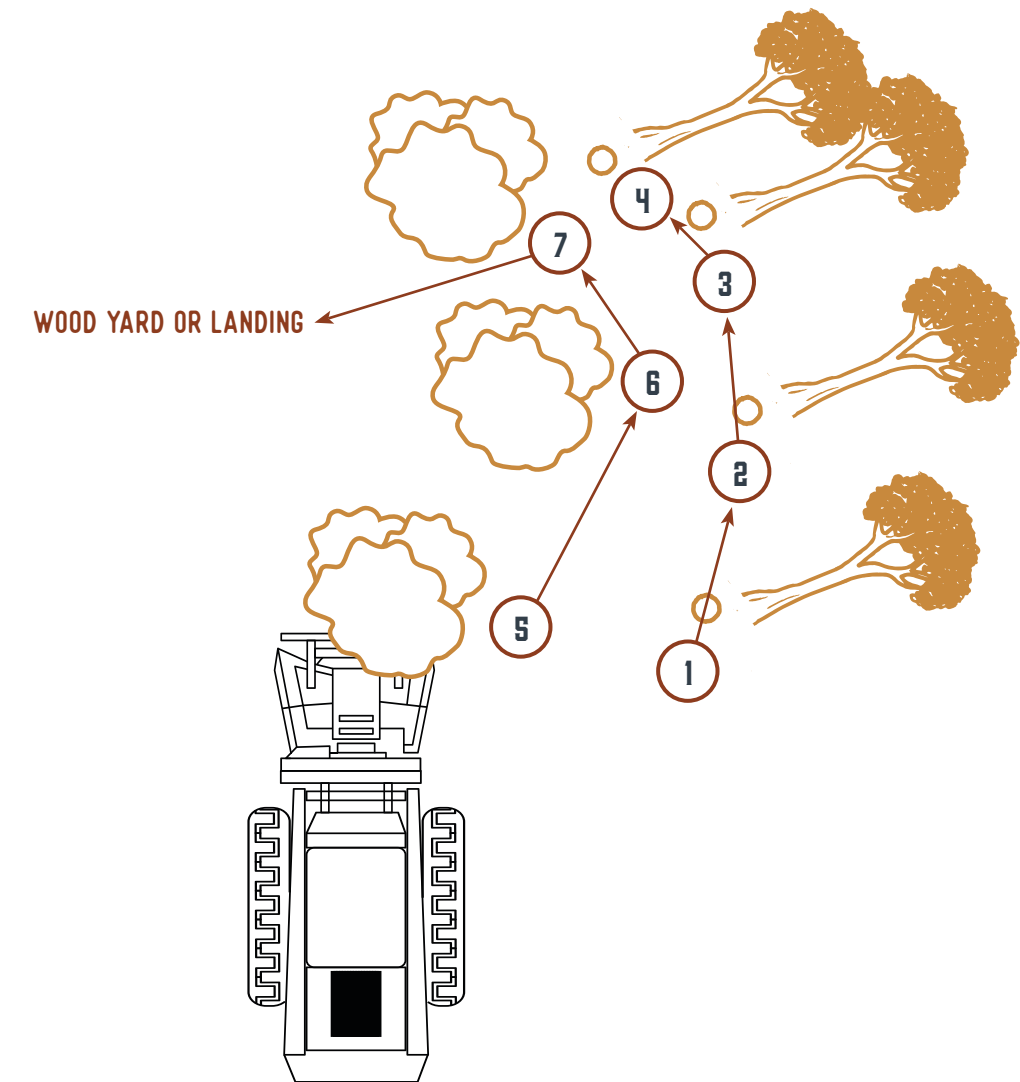


FIGURE 2.7A OVERHEAD VIEW OF TREE CUTTING PATTERN PLAN

MAINTENANCE PROCEDURES

3.1 MAINTENANCE OVERVIEW


The maintenance procedures described in this manual should only be carried out by qualified mechanics who have been trained to repair this machine.

Some procedures require special tools and skills to complete. DO NOT attempt to repair or perform service work on this machine unless you have the skills and tools to do so. Contact your local dealer for maintenance and repair services.

WELDING REPAIRS

Contact your local dealer before performing any type of welding repair to this attachment, as this may void warranty.


All authorized welding repairs must be performed by qualified welders in accordance to the American Welding Society (AWS) standards. Welding procedures performed by unqualified welders may deem this attachment unsafe to operate.





NOTICE
Improper maintenance or modifications to the design or performance of this machine will void the manufacturer's warranty. ONLY use genuine OEM replacement parts on this machine.


SAFETY INSTRUCTIONS


Obey the following safety instructions when servicing or repairing this machine.

- 

WEAR proper Personal Protective Equipment (PPE) while working on this machine, which may include safety glasses, hard hats, steel toe boots, gloves, etc.
- 

ONLY perform service work in a well-lit area.
- 

WEAR a welding helmet when welding to protect your eyes, face and neck from flash burn, ultra-violet radiation and heat.
- 

ALLOW the machine to cool down before servicing this machine. Hot oils can burn your skin.
- 

NEVER work under an unsupported cutter deck.

3.2 MAINTENANCE SCHEDULE

This attachment will provide years of dependable service if routine maintenance procedures are performed. The maintenance tasks listed below are based on normal operating conditions. More frequent maintenance may be necessary with intense use or when operating in adverse environmental conditions.

| MAINTENANCE TASK | BEFORE EACH USE | WEEKLY | YEARLY |
|--|-----------------|--------|--------|
| Check skid steer loader hydraulic fluid level. Add fluid as necessary. | ✓ | | |
| Check that all fasteners (nuts, bolts, washers, pins, keepers) are in place. Tighten as necessary. | ✓ | | |
| Inspect and replace any worn, torn, or missing safety decals. | ✓ | | |
| Inspect hydraulic plumbing (hoses and connectors) for damage or leakage. Repair or replace hydraulic items as necessary. | ✓ | ✓ | |
| Check the condition of the blade by opening the shear. Sharpen as required. | | ✓ | ✓ |
| Check attachment for major scratches and dings. Sand and repaint these areas to prevent rust damage. *Use a paint formulated for farm equipment which can be found at your local hardware store. | | | ✓ |
| Lubricate all pivot joints before storage. Apply grease to the exposed chrome cylinder rods if storing in a saltwater environment. | | | ✓ |

| LUBE CHART (# OF GREASE FITTINGS & LOCATION) | | | | |
|--|-------------------|-------------------------|----------------------|-----------------------|
| | BLADE PIVOT SHAFT | SHEAR CYLINDER BASE PIN | ROTATION PIVOT JOINT | ROTATION CYLINDER PIN |
| Manual Rotating | 1 | 1 | 1 | |
| Hydraulic Rotating | 1 | 1 | 1 | 2 |

MAINTENANCE LOG

Document all maintenance and service activities performed on this brush cutter using the maintenance log included at the end of this manual.

3.3 STORAGE

STORAGE TIPS

To get years of quality use out of your attachment, follow these tips when storing your attachment for the season:



ENSURE

Ensure attachment is free of debris, dirt, grime and grease.



STORE

Store your attachment in a dry shed or garage.



COVER

When storing your attachment outside, cover with a weather proof tarp to protect it from the elements.

3.4 BLADE REMOVAL & INSTALLATION



CAUTION

Be cautious during the following steps. A dropped shear blade could result in serious injury.

Shear blade can be very sharp. To avoid a cut injury, always wear protective gloves and footwear.



WARNING

To avoid serious injury or death, never place any body part under the shear while servicing.

BLADE REMOVAL

1. Open the blade to its full open position, then rotate blade back about 1" (25mm).
2. Lift the shear with the skid steer or an overhead hoist and support the shear on timbers. (see figure 3.4a on next page)
3. Connect a lifting eye through the blade and secure with a nut underneath the blade. (see figure 3.4a on next page)
4. Remove the bolt at the cylinder connection.
5. Loosen the two bolts on either side of the blade pivot pin and remove the shear blade pivot pin.
6. Carefully slide the blade out of the frame using an overhead hoist.

BLADE LIFE

After several years of operation, the life of the blade may depend on the number of times you have needed to sharpen the blades edge. If the gap between the closed blade and the frame is more than 3/8" (10mm), your shear would operate more efficiently if a new blade was installed.

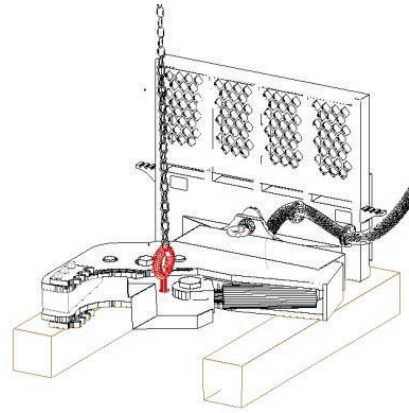



FIGURE 3.4A SHEAR PLACED ON TIMBERS WITH LIFT EYE ATTACHED.

BLADE INSTALLATION

1. Position the blade into position using the lift eye and hoist by lining up the blade pivot hole with the hole in the frame.
2. Install the pivot shaft and secure the blade pivot hardware.
3. Rotate the blade to line up the blade with the cylinder rod yoke and install hardware.
4. Torque all hardware items according to the Torque Chart below.

|  | GRADE 2 LB-FT | GRADE 5 LB-FT | GRADE 8 LT-FT |
|---|------------------|------------------|------------------|
| 1/4" | 66* | 8 | 12 |
| 5/16" | 10 | 17 | 20 |
| 3/8" | 20 | 30 | 45 |
| 1/2" | 45 | 75 | 110 |
| 3/4" | 160 | 260 | 380 |
| 7/8" | 190 | 400 | 600 |
| 1" | - | 580 | 900 |

* = inch pound

TROUBLESHOOTING

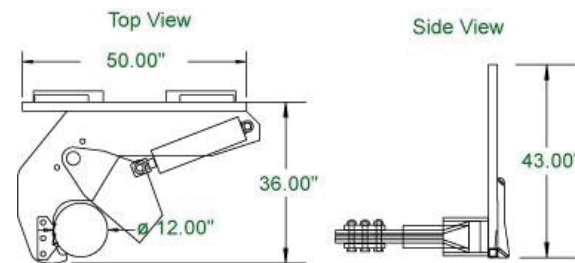
4.1 TROUBLESHOOTING CHART

| PROBLEM | CAUSE | RESOLUTION |
|--|---|--|
| Blade gets dull too quickly. | Blade has contacted solid objects (rocks, steel pipe, etc.) | Do not cut solid objects (rocks, steel pipe, etc.) |
| Blade breaking or bending. | Excessive bending loads. | |
| Skid steer hydraulic oil level goes down during operation. | Leak between skid steer and attachment cylinder. | |
| | Leaks in skid steer hydraulic system. | |
| Hydraulic Shear Rotation does not work. | No electrical power source. | |
| | Valve not shifting due to solenoid failure. | |

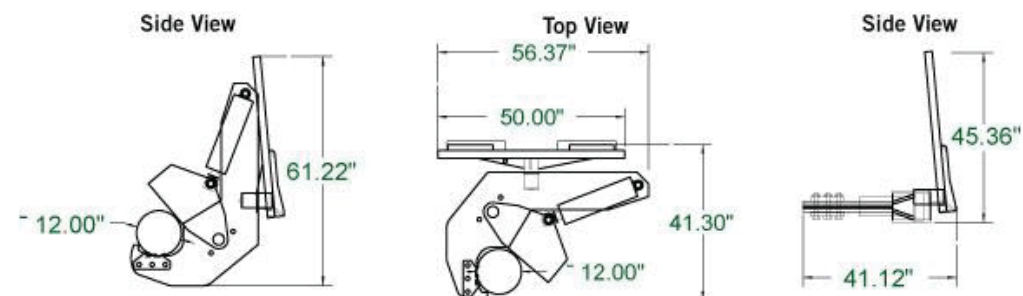
SHEAR SPECIFICATIONS

| | NON-ROTATING | MANUAL ROTATING | HYDRAULIC ROTATING |
|---------------------------------|---------------------------|-------------------|--------------------|
| WEIGHT | 975 lbs (442 kg) | 1025 lbs (465 kg) | 1075 lbs (488kg) |
| OVERALL WIDTH | | 61.22" | |
| OVERALL HEIGHT | | 45.36" | |
| OVERALL LENGTH | | 41.3" | |
| SHEARING FORCE | 60,000 lbf. (266893 N) | | |
| CUT CAPACITY | 12" (305 mm) | | |
| FELL DIRECTION | Right | | |
| SHEAR ROTATION | None | 0 deg or 90 deg | 0 deg - 90 deg |
| SHEAR CYLINDER | 5" x 12" (127 mm x 305mm) | | |
| LUBE POINTS | 2 | 3 | 5 |
| BLADE THICKNESS | 1" (25.4 mm) | | |
| BLADE MATERIAL | AR400 | | |
| MIN SKID STEER LOADER HP | 45 HP (34 kW) | | |
| HYD RELIEF SETTING | 3000 PSI (207 bar) | | |

NON-ROTATING TREE SHEAR DIMENSIONS



MANUAL AND HYDRAULIC TREE SHEAR DIMENSIONS



PARTS INFORMATION

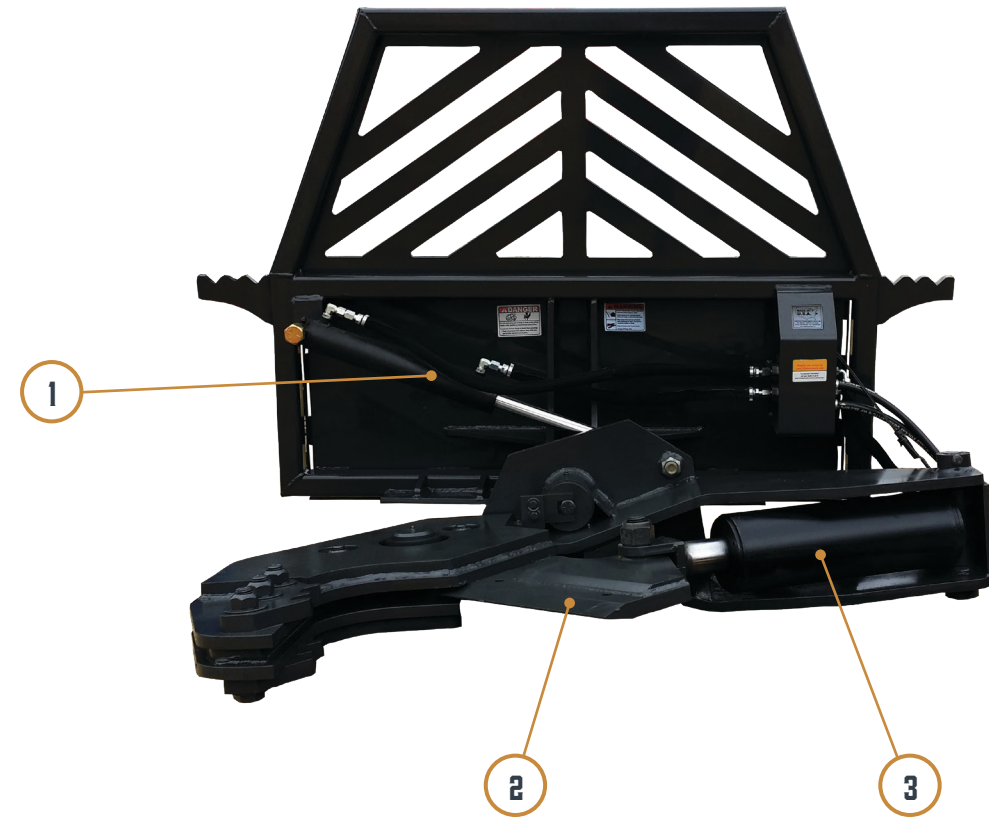
Factory fresh parts specifically designed for your implement are readily available.

For hassle free service and to ensure you receive the correct parts for your implement, please provide your dealer with the following information:

| | |
|---|--|
| MODEL | |
| SERIAL NUMBER | |
| GPM REQUIREMENTS | |
| DATE OF OWNERS MANUAL (Bottom right corner of cover Page) | |
| PARTS DIAGRAM PAGE NUMBER | |
| PART DESCRIPTION | |
| REFERENCE NUMBER | |
| QUANTITY DESIRED | |
| SHIP TO INFORMATION | |
| BILL TO / PAYMENT INFORMATION | |

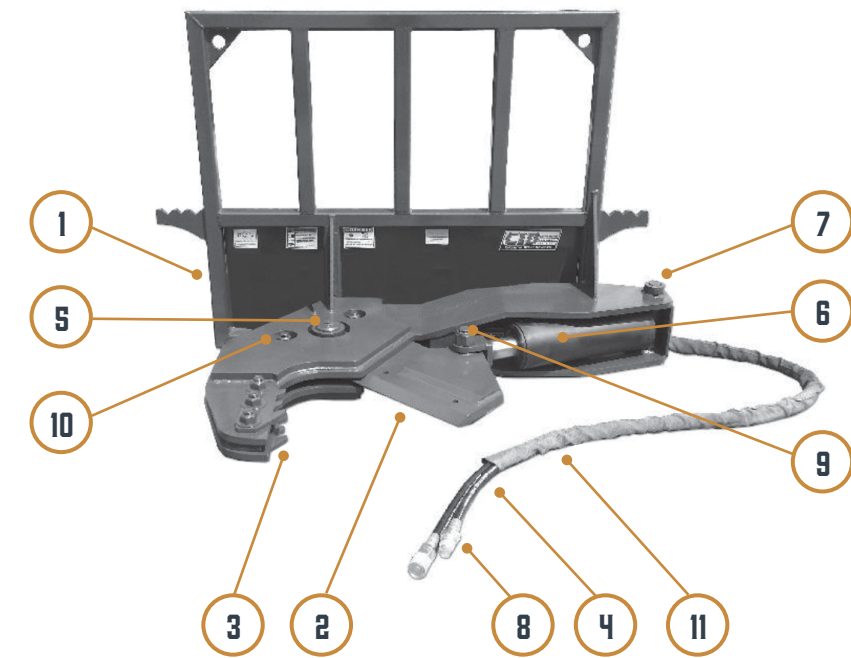
Use Genuine Parts from Construction Implements Depot, Inc.

6.1 PARTS ASSEMBLY DIAGRAMS



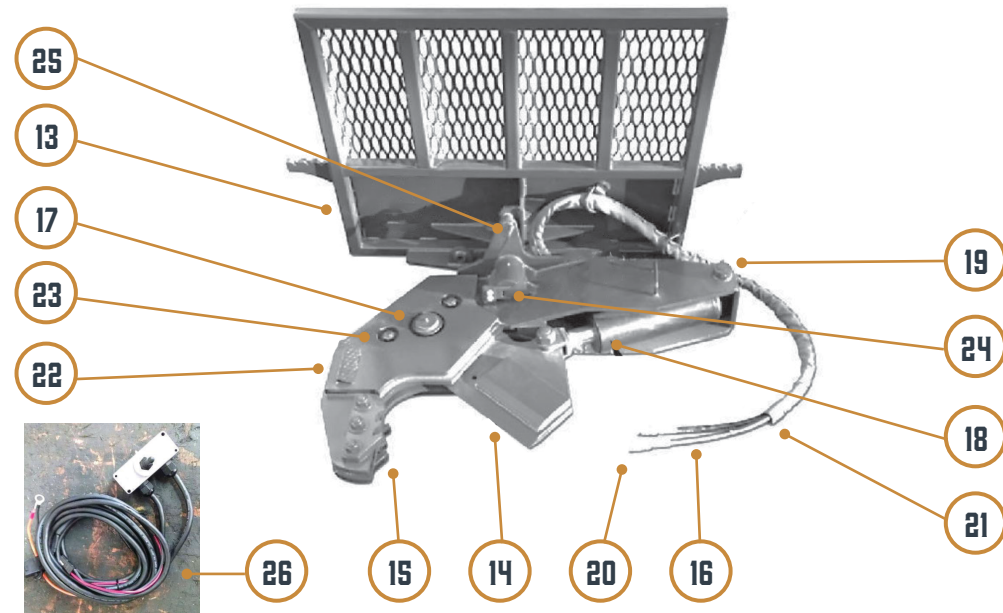
| REF | PART DESCRIPTION | PART NUMBER | QTY. |
|-----|--|-------------|------|
| | Universal Wiring Harness (req. for rotation) | 50516529 | 4 |
| | 8 Pin Wiring Harness (req. for rotation) | 50516530 | 1 |
| | 14 Pin Wiring Harness (req. for rotation) | 50516531 | 1 |
| 1 | 2"x10" cylinder w/1" pin hole (hydraulic only) | 3072 | 14 |
| 2 | Tree Shear Blade | 7000 | 72 |
| 3 | 5" X 12" cylinder | 3073 | 65 |

NON-ROTATING TREE SHEAR PARTS



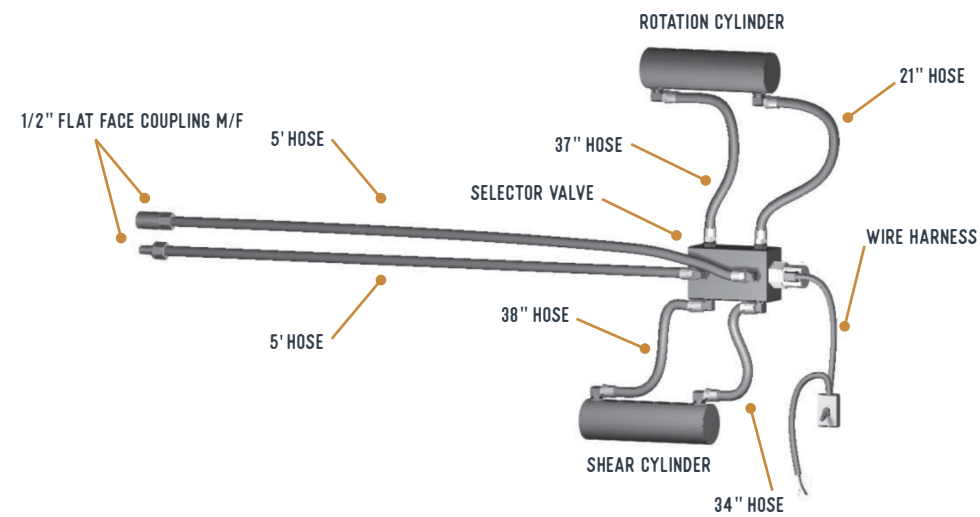
| REF | DESCRIPTION | QTY. |
|-----|-------------------------------|------|
| 1 | Main Frame | 1 |
| 2 | Shear Arm | 1 |
| 3 | Tree Grip Set | 1 |
| 4 | Hose (Pair) | 1 |
| 5 | Pivot Shaft, Blade Arm | 1 |
| 6 | Cylinder | 1 |
| | Fitting, 90° | 2 |
| 7 | Pin, Cylinder Base | 1 |
| 8 | Quick Disconnect Coupling Set | 2 |
| 9 | Bolt Set, (Cylinder Rod End) | 1 |
| 10 | Bolt Set (Shear Arm Mounting) | 1 |
| 11 | Wear Sleeve, Hose | 1 |

ROTATING TREE SHEAR



HYDRAULIC/ELECTRICAL DRAWING

(Hydraulic Rotation Model Only)



| REF | DESCRIPTION | QTY. |
|-----|---|------|
| 13 | Coupler Frame | 1 |
| 14 | Shear Arm | 1 |
| 15 | Tree Grip Set | 1 |
| 16 | Hose (Pair) | 1 |
| 17 | Pivot Shaft, Blade Arm | 1 |
| 18 | Cylinder | 1 |
| | Fitting, 90° | 2 |
| 19 | Pin, Cylinder Base | 1 |
| 20 | Quick Disconnect Coupling Set | 1 |
| 21 | Wear Sleeve, Hose | 1 |
| 22 | Frame, Shear Arm | 1 |
| 23 | Bolt Set (Shear Arm Mounting) | 1 |
| 24 | Shear Pivot Locking Tab & Hardware Set | 2 |
| 25 | Pin, Pivot Lock | 1 |
| 26 | Electrical Switch Harness (Hyd. Rotation Models Only) | 1 |

NOT SHOWN, REFER TO HYDRAULIC/ELECTRICAL DRAWING SHOWN LEFT

| REF | DESCRIPTION | QTY. |
|-----|--|------|
| NS | Cylinder, Shear Rotator (Hyd. Rotation Models Only) | 1 |
| NS | Pin, Shear Rotator Cylinder – Base End (Hyd. Rotation Models Only) | 1 |
| NS | Pin, Shear Rotator Cylinder – Rod End (Hyd. Rotation Models Only) | 1 |
| NS | Electrically Operated Control Valve (Hyd. Rotation Models Only) | 1 |
| NS | Hose Set – From Valve to Rotation Cylinder (Hyd. Rotation Models Only) | 1 |
| NS | Selector Valve (Hyd. Rotation Models Only) | 1 |

WARRANTY INFORMATION

7.1 WARRANTY INFORMATION

LIMITED WARRANTY

Ironcraft products are warranted to be free from defects in workmanship or materials for a period of 12 months from the initial sale, lease or rental date.

WARRANTY EXCLUSIONS

This warranty does not cover normal wear items, including but not limited to: bearings, hoses, ground engaging parts such as teeth, blades, cutting edges, pilot bits, auger teeth and broom bristles. This warranty does not cover maintenance, service or adjustments. This warranty does not cover damage due to misuse, negligence, accidents, improper maintenance or modifications of this product. This warranty is void if any components have been disassembled, i.e., pumps, gear boxes or motors. Specially modified attachments built by Ironcraft X-treme Attachments to meet your customers' needs shall not be warranted by Construction Implement Depot, Inc. This warranty does not cover replacement parts not supplied by Ironcraft, Inc.

WARRANTY STATEMENT

Our obligation under this Limited Warranty shall be solely limited to repairing or replacing any part (see non-covered items above) free of charge that, according to our judgment, show evidence of a defect in quality of workmanship or materials for the stated 12 month warranty period. All defective parts must be routed directly to Ironcraft with freight or delivery charges to be prepaid. This limited warranty shall not be interpreted to render Ironcraft liable for any injury or damage to persons, businesses or property of any kind nor expenses or losses incurred for labor, supplies, substitute machinery rental or for any other reason. Repair or replacement parts are subject to the supply conditions at the time of repair or replacements, which may directly affect our ability to obtain material and/or replacement parts. Ironcraft reserves the right to make improvements in design or changes in specifications at any time without incurring any obligations to owners of previously purchased products. No one but Ironcraft is allowed to alter, modify or enlarge this warranty nor the exclusions, limitations and reservation at any time.

7.2 WARRANTY SERVICE

WARRANTY SERVICE PROCEDURE

RGA (Returning Goods Authorization) Policy:

If repairs are required, Ironcraft must obtain an RGA number from the manufacturer of the defective part and proof of purchase. RGA and services are rendered by Ironcraft only. Any responsibility of shipping costs on any item returned for repair is at the discretion of Ironcraft.

All returned parts must have:

1. A legible RGA number written on the outside of the package.
2. A Service Request Form.
3. The defective part.

RGA numbers are only valid for 30 days from the date of issue. All shipped replacement parts will require a PO number from the original Ironcraft Customer. If the defective part is rendered non-warranty, the PO number will be invoiced for the replacement. Should you have any problems with your attachment, please follow the following procedures to obtain service.

Call the Warranty Department at (336) 859-2002 ext 215. You will need to provide the model and serial number of the defective item(s), a description of the problem and have photographs available.

Upon a warranted issue, visit www.ironcraftusa.com, click on the warranty tab, and fill in the warranty information. Ironcraft will retain an RGA number from the manufacturer of the defective part. If all the information above is fulfilled the manufacturer will issue an RGA number.

Obtain a PO number from the original Ironcraft customer. PO numbers will be invoiced in the event the defective part(s) is un-warranted

Ironcraft will ship a replacement part with a Service Request Form and RGA #. There will be a call tag with the Manufacturer's address and instructions for returning the defective part.

Once the defective part is warranted by the manufacturer, Ironcraft will be issued a credit and the PO number will be void.

In the event the manufacturer renders that the attachment be returned to Ironcraft for repair, Ironcraft will make arrangements for pickup and return. Repairs will be performed by Ironcraft qualified technicians. Non-warranted issues will be discussed and repairs will be performed upon agreement of the owner, and payment for parts and labor will be issued.

SAFETY ACKNOWLEDGEMENT FORM

ATTN ALL OPERATORS: Print your name, sign and date in the boxes below to acknowledge that you have read and fully understand the safety instructions presented in this manual, and have been trained on how to safely operate this attachment.

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MAINTENANCE LOG

Use this log sheet to document all routine maintenance and repair services performed on this machine.

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7 ROCKY MT RD

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