IRONCRAFT

TREE SHEARS, PULLERS, SPLITTER



OPERATION AND PARTS MANUAL

Read and understand the manual. This manual provides information and procedures to safely operate and maintain the Tree Shears, Pullers, Splitter.

AUG 2026

REGISTER YOUR PRODUCT

IRONCRAFT

423-405-5150

MODEL		WEIGHT	
PART		HP RANGE	
SERIAL			
HYDRAULIC PRESSURE		HYDRAULIC FLOW	

WWW.IRONCRAFTUSA.COM

Please see the inside of the back cover for instructions of where to find your model and serial number.

⚠WARNING

To prevent personal injury or even death, be sure you read and understand all the instructions in this manual and other related OEM equipment manuals! This attachment if not used and maintained properly, can be dangerous to users unfamiliar with its operation. Do not allow operating, maintaining, adjusting, or cleaning of this attachment until the user has read this manual and has developed a thorough understanding of the safety precautions and functions of the unit. DO NOT modify or use this attachment for any application other than that for which it was designed. Attachments maintained or operated improperly or by untrained personnel can be dangerous, exposing the user and/or bystanders to possible serious injury or death.

Purchase Date:	
Dealer Name:	
Address:	
Phone Number:	

WELCOME

Thank you for choosing IRONCRAFT. This attachment has been designed and manufactured to meet the needs of discerning users. 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 this attachment. All users must read and understand this manual before operating this attachment. Upon reading this manual, all users should sign the “Safety Acknowledgment Form” at the end of this manual.

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

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TABLE OF CONTENTS

INTRODUCTION 3

WARRANTY DISCLAIMERS 5

SECTION 2 TREE SHEARS, PULLERS, & SPLITTER MODELS

2.0 Terminator and Tree & Post Puller 6
2.1 Tree Shears 7
2.2 Tree Shears and Log Splitter 8

SECTION 3 SAFETY INFORMATION

3.0 Safety Terms 9
3.1 Safety Symbols 10-11
3.2 Safety Decals 12-14
3.3 Skid Steer Loader Requirements 14
3.4 Personal Protective Equipment Requirements 14
3.5 General Safety Instructions 15
3.6 Federal Laws & Regulations 16

SECTION 4 OPERATING PROCEDURES

4.0 Unpacking Your Attachment 17
4.1 Before Operating 17
4.2 How to Mount Attachment 18-19
4.3 Controls 19-20
4.4 First Time Use 20-21
4.5 Tree Shear Operating Procedures 21-22
4.6 Terminator, Tree and Post Puller Operating Procedures 23-24
4.7 Log Splitter Operating Procedures 24-25
4.8 How to Dismount Attachment 25

SECTION 5 MAINTENANCE PROCEDURES

5.0 Maintenance Overview 26-27
5.1 Maintenance Schedule 27
5.2 Maintenance Log Instructions 28
5.3 Storage Tips 28
5.4 Torque Specification Table & Instructions 29
5.5 Equipment Requirements 29-30
5.6 Tree Shears Maintenance 30
5.7 Tree Shear Blade Removal and Replacement 31
5.8 Log Splitter Cutting Head Changes: 2-Way or 4-Way 31

SECTION 6 TROUBLESHOOTING

6.0 Troubleshooting Chart 32-33

SECTION 7 PARTS INFORMATION

7.0 Parts Information Form 34
7.1 Terminator Parts Diagram 35
7.2 Tree and Post Puller Parts Diagram 36
7.3 X-Treme Non-Rotating Tree Shear Parts Diagram 37
7.4 Hydraulic Rotating Tree Shear Parts Diagram 38
7.5 Log Splitter Parts Diagram 41

SECTION 8 WARRANTY INFORMATION

8.0 Warranty Statement 40

SECTION 9 SAFETY ACKNOWLEDGMENT FORM 41

SECTION 10 MAINTENANCE LOGS 42

APPENDIX A FINDING YOUR MODEL AND SERIAL NUMBER.....43



IMPORTANT WARRANTY DISCLAIMERS

ATTENTION: If your attachment has control valves, cylinders, gearboxes, or motors and they are opened or disassembled, the WARRANTY for that item WILL IMMEDIATELY BE VOIDED!

HYDRAULIC FLUID STATEMENT: Check your machine's hydraulic level and add hydraulic fluid if necessary before each use. Inspect for leaks, and repair if necessary. **Always use your machine's manufacturer recommended hydraulic fluid in your machine**! Fluid must be clean and debris free. If damage occurs from debris in hydraulic fluid flowing from your machine to our attachment it will VOID the warranty on any cylinders, motors, couplers, manifolds &/or valves (relief, lock, selector, check and flow control) downline from that flow..

WARNING: This product can expose you to chemicals including benzene and mineral oils, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

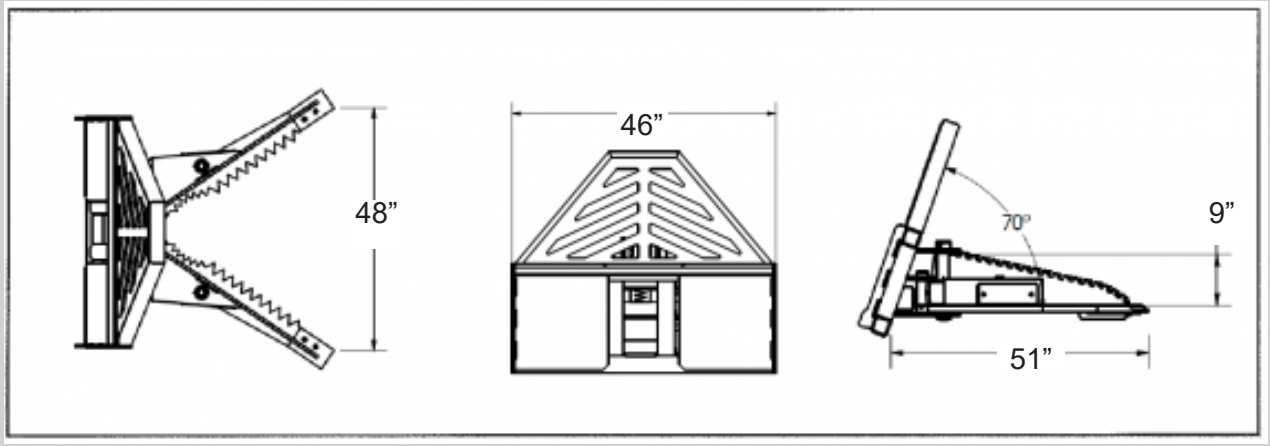
SECTION 2

SHEARS, PULLER, SPLITTER

Terminator

- Dual 3.5” x 4” Cylinders, 1.25” Pins
- 1.5” Main Pivot Pins
- 1” x 8” Cutting Edge
- 5/8” AR400 Vertical Teeth (34)
- 3/4” AR400 Horizontal Teeth (32)



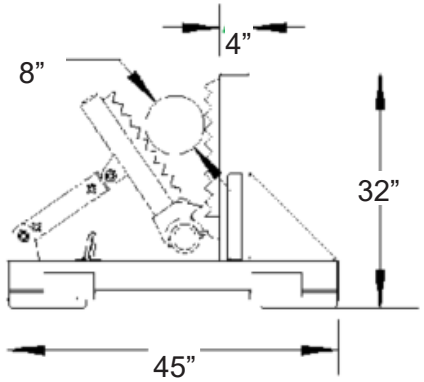


Tree & Post Puller

- Pull posts up to 8” in diameter and trees up to 6” in diameter.
- 2-1/2” x 8” cylinder
- Pulls posts up to 8” in diameter.



Tree & Post Puller Specs

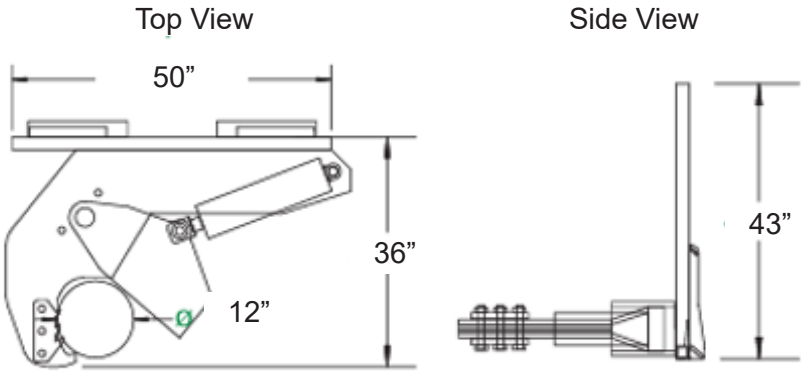


X-Treme Tree Shear



- 5” X 12” Cylinder
- Cuts 12” Diameter Trees
- 1” AR400 Blade
- 40 tons of shearing force.

X-treme Tree Shear Specs

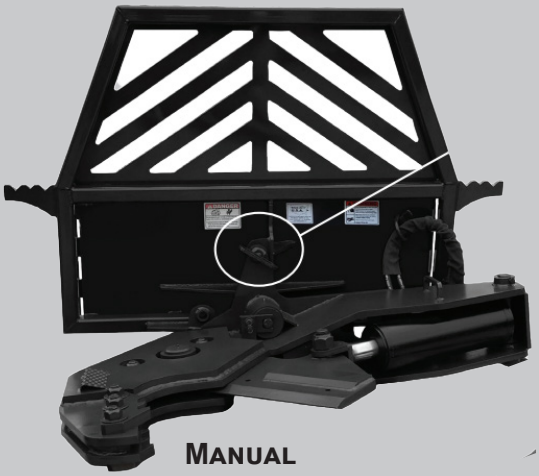


X-Treme Rotating Tree Shear (Manual or Hydraulic)

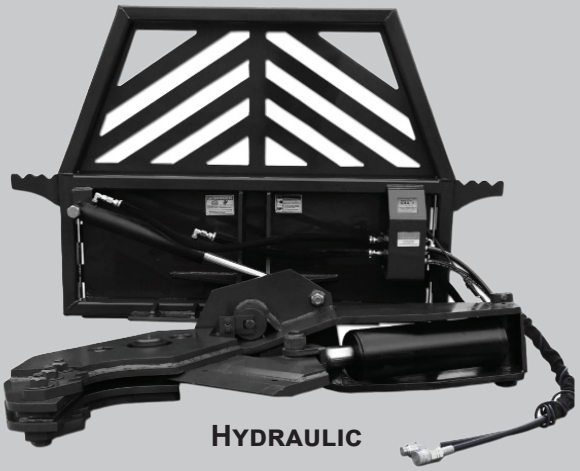
- 1” thick AR400 blade
- 40 tons of shearing force
- Hydraulic tree shear powered by a 5” x 12” cylinder
- 90 degree rotation manually rotated or hydraulic cylinder.
- Electrical Harness available in universal, 7 pin, 8 pin, or 14 pin
- Cuts 12” diameter trees

2.2 TREE SHEAR & LOG SPLITTER

X-Treme Rotating Tree Shear (Manual or Hydraulic)

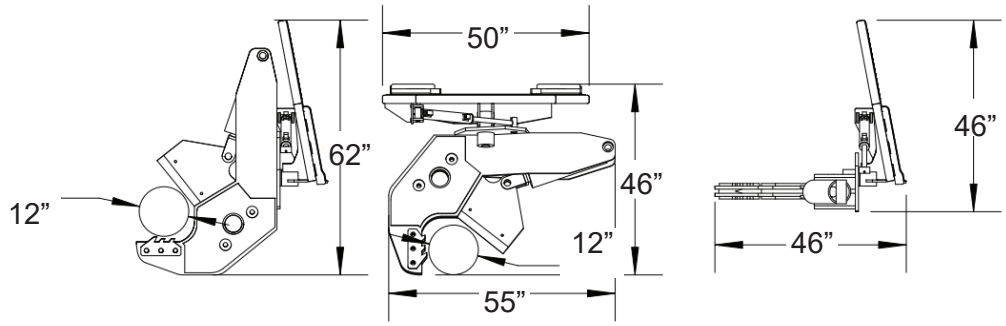


Manual



Hydraulic

X-treme Rotating Tree Shear Specs



40 Ton Inverted Log Splitter

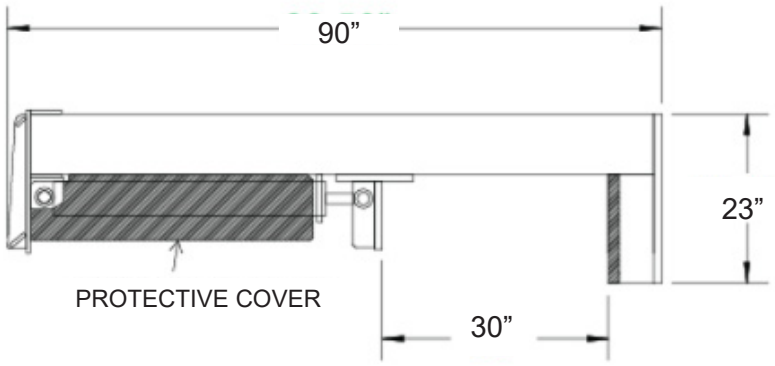
.

- Rear or side mount available for quick attach.
- 40 ton 5” x 30” cylinder
- Removable cutting heads
- Optional: 4 way head shown





40 Ton Inverted Log Splitter Specs



SECTION 3

SAFETY INFORMATION

The following terms may be used interchangeably throughout this manual.

Term	Alternate Terms Used
Tree and Post Puller, Terminator, Tree Shear, Log Splitter	implement, attachment, puller, splitter, shear
Machine	skid steer loader, skid steer, loader, track loader, prime mover, host machine, tractor
Operator	user, personnel

The **Attachment** is designed and manufactured with safety in mind. However, improper use and operator error can result in death or serious injury. It is important that you read and fully understand the safety instructions and operating procedures presented in this manual before operating this attachment. Accident prevention is a combination of good judgment, common sense, awareness and proper training!

⚠ BEFORE YOU OPERATE THIS ATTACHMENT:

KNOW how to safely operate your machine.

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 Acknowledgment 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 warnings presented 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.

3.1 SAFETY SYMBOLS

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



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

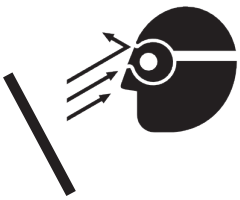
Indicates a situation which may cause damage to equipment or property.
Messages are not related to personal injury.

Safety Instructions

Indicates specific safety-related instructions or procedures.

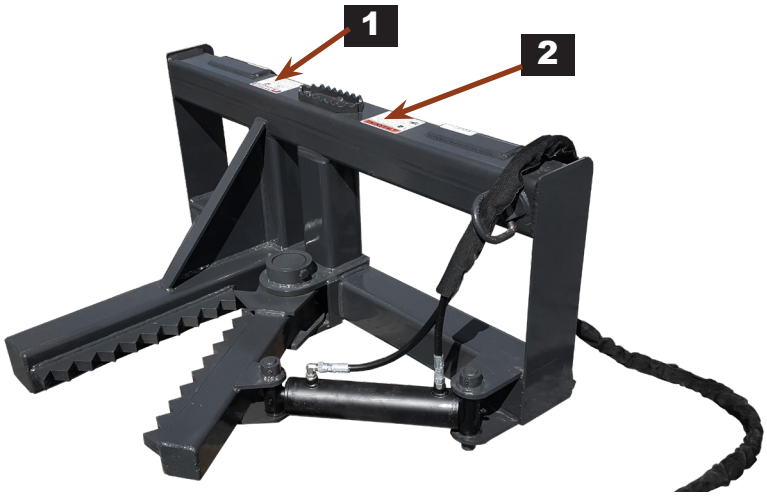
3.1 SAFETY SYMBOLS

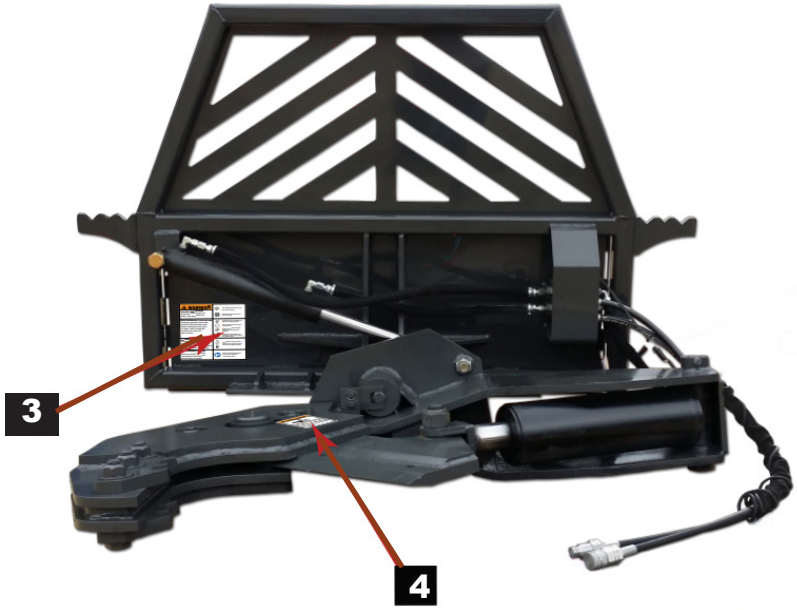
Pictograms are graphic symbols meant to alert you of a potential hazard. Read and understand the hazard description for each of these symbols.

Pictogram	Description
	**PINCH HAZARD**: Keep clear of machine and attachment to prevent death or serious injury from pinching of moving parts.
	**FLYING DEBRIS HAZARD**: ONLY operate this attachment using a machine that has a shatter proof cab to prevent death or serious injury from objects being thrown.
	**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.
	**NO BYSTANDERS**: DO NOT operate this attachment near bystanders. Bystanders must stay back at least 100 feet from the attachment to prevent death or injury from objects being thrown.
	**CRUSH HAZARD**: DO NOT place any part of the body under the attachment or machine arms to prevent death or serious injury from being crushed .

3.2 SAFETY DECALS

Safety warning decals are located on this attachment near immediate areas of potential hazards. Operators must learn the meaning of each decal and know where to find the decal on the attachment.



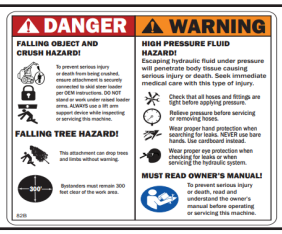




3.2 SAFETY DECALS

The safety decals affixed to this attachment are to keep you safe. DO NOT ignore these decals.

Read and understand each decal's safety message. Follow these Safety Decal Instructions:

REF	DESCRIPTION	LABEL	QTY
1	WARNING READ MANUAL Terminator, Tree & Post Puller, Log Splitter		1
2	WARNING HYDRAULIC PRESSURE Terminator, Tree & Post Puller, Log Splitter		1
3	8X8 DANGER COMBO Tree Shear		1
4	BLADE HAZARD Tree Shear		1
5	DANGER FALLING/CRUSHING HAZARD Log Splitter		1
6	WARNING PINCHING/ CRUSHING HAZARD Log Splitter		1

CONTACT YOUR LOCAL DEALER TO ORDER REPLACEMENT DECALS

3.2 SAFETY DECALS CONT.

Decals must be kept clean and legible at all times.

Operators must inspect the attachment for safety decals.

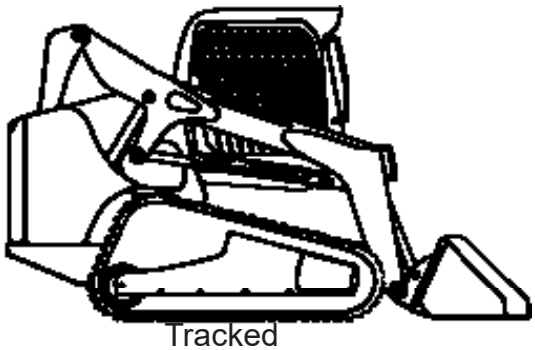
Replace missing, worn or damaged decals immediately.

When using a hot pressure washer to clean this attachment 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 attachment.

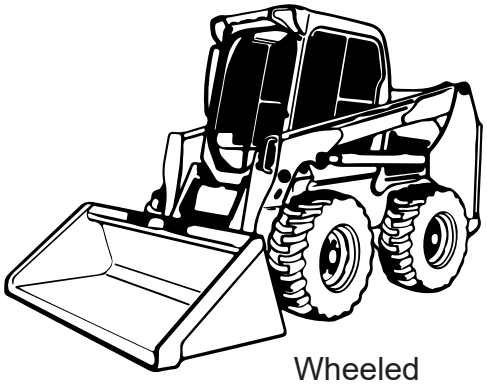
Make sure metal surface is dry and free of dirt and grease before affixing decals to this attachment.

3.3 SKID STEER LOADER REQUIREMENTS



Tracked

VS.



Wheeled

A Tracked Skid Steer or Compact Track Loader (CTL) will provide superior stability in this application.

Follow the operating instructions in your Skid Steer operator's manual.

Machines must have impact resistant windshields and cab side windows.

Consult the host machine's rated operating capacity to ensure you have the proper lift capacity for optimal operation of your attachment.

Flow range MUST support the attachment.

3.4 PERSONAL PROTECTIVE EQUIPMENT (PPE)

All operators should wear hearing protection, safety glasses, hand protection and dust mask while operating this attachment.



3.5 GENERAL SAFETY INSTRUCTIONS

MAKE SURE YOU FOLLOW THE GENERAL SAFETY INSTRUCTIONS THAT RELATE TO THE OVERALL OPERATION AND MAINTENANCE OF THIS ATTACHMENT. IT IS IMPORTANT THAT YOU READ AND UNDERSTAND EACH OF THESE MESSAGES TO PREVENT SERIOUS INJURY OR DEATH.

- **NEVER use drugs or alcoholic beverages while operating or servicing this attachment.**
- **ALWAYS operate this attachment during daylight or well-lit areas.**
- **We recommend using a high strength clear protective door panel when using with this attachment.**
- **To prevent the machine and attachment from rolling forward, stop the engine and set the parking brake when exiting the machine.**
- **Inspect attachment for loose or missing hardware prior to using this machine.**
- **DO NOT allow children to play on or around this attachment at any time. Store this attachment in an area not frequented by children.**
- **ALWAYS wear the proper personal protection equipment while operating or servicing this attachment. NEVER operate or service this attachment with bare feet, sandals, or other light footwear.**
- **ALWAYS wear work gloves when handling attachment as they are often sharp edges.**
- **ALWAYS use eye protection while operating or servicing this attachment.**
- **ALWAYS watch for overhead power lines.**
- **DO NOT place hands or feet under attachment.**
- **NEVER operate this attachment when bystanders are within 100 feet of your work area. Falling debris could cause serious injury or death.**
- **NEVER position your body or limbs under an unsupported attachment.**
- **DO NOT allow this attachment to contact buildings, utilities, large rocks or tree stumps or you may lose control of the machine.**
- **DO NOT operate this attachment during lightning or severe weather conditions.**
- **DO NOT allow riders on the machine or on this attachment.**
- **DO NOT speed! Keep your driving between 2 and 5 mph.**



3.6 FEDERAL LAWS & REGULATIONS

IMPORTANT FEDERAL LAWS AND REGULATIONS CONCERNING EMPLOYERS, EMPLOYEES, AND OPERATORS

This section is intended to explain in broad terms the concept and effect of the following federal laws and regulations. It is not intended as a legal interpretation of the laws and should not be considered as such.

U.S. PUBLIC LAW 91-596 (The Williams-Steiger Occupational Safety and Health Act of 1970) OSHA

This Act Seeks:

" ... to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources... "

Sec. S(a) Each Employer – **DUTIES**

(1) shall furnish to each of its employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to its employees.

(2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his or her own actions and conduct.

OSHA Regulations

Current OSHA regulations state in part: "At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved." These will include (but are not limited to) instructions to:

Keep all guards in place when the machine is in operation;

Permit no riders on equipment;

Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning, or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain equipment.

Make sure no one is within 300 feet of machinery before starting the engine, engaging power, or operating the machine.

EMPLOYEE MACHINE OPERATING INSTRUCTIONS:

1. Securely fasten your seat belt if the machine has the capability.
2. Where possible, avoid operating the machine near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going, especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the machine smoothly - no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by machine manufacturers.
9. When machine is stopped, set brakes securely and use park lock if available.

Child Labor Under 16 Years Old

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin # 102).

SECTION 4

OPERATING PROCEDURES

Your attachment may arrive from the factory strapped to a wood pallet and requires no final assembly. Use a steel band cutting tool to remove the steel straps.

⚠ CAUTION

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

4.1 BEFORE OPERATING

Pre-Operating Checklist	
☐	Attachment is securely attached to the machine and pins are locked.
☐	Hydraulic hoses are connected and locked to the machine's hydraulic couplers with no signs of hydraulic fluid leaks present.
☐	Attachment is in working condition and all bolts and nuts are tight.
☐	Safety labels are present and legible.
☐	The area of operation is clear of bystanders and any obstacles that could damage the equipment or injury to the operator.
☐	The operator is of good health and not under the influence of any mind altering substances or alcohol.
☐	Lubricate all pivot and sliding joints with #2 lithium grease.
☐	Electrical Harness is connected to the machine from attachment. (if applicable)

4.2 HOW TO MOUNT ATTACHMENT

GENERAL ATTACHMENT METHOD

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

This attachment method refers specifically to skid steers. For all other attachment instructions, refer to the Original Equipment Manufacturer (OEM) for instructions.

1. Enter operator's cab and start skid steer loader.
2. Tilt the skid steer loader Quick Attach Coupler slightly down and drive forward to the rear of the attachment until the top edge of the Quick Attach Coupler connects into the attachment mounting bracket. See figure 4.2a below.
3. Slightly tilt the skid steer Quick Attach Coupler up until the coupler and mounting bracket fully engage. See figure 4.2b.
4. Activate the coupler pin mechanism to lock the pins into the attachment bracket. If your skid steer does not have this mechanism, shut skid steer engine off and exit the cab.
5. Push the skid steer Quick Attach locking pins down until you can see the locking pins extend into the slots on the attachment bracket.
6. Connect hydraulic hoses to the auxiliary supply couplers located on your skid steer loader lift arm.

Skid Steer Mounting Plate Attachment



FIGURE 4.2A - SKID STEER MOUNTING PLATE TO ATTACHMENT MOUNTING FLANGE

NOTICE

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

⚠WARNING

To avoid serious injury or death, ensure locking 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 host machine.

NOTICE

Check that hydraulic hoses are locked into the machine's couplers with the preferred output auxiliary port corresponding to the correct input line on the attachment before use. Check the hose routing through the full range of intended motion before operating attachment. It is the responsibility of the owner/operator to make sure the hoses are routed correctly and are not pinched.

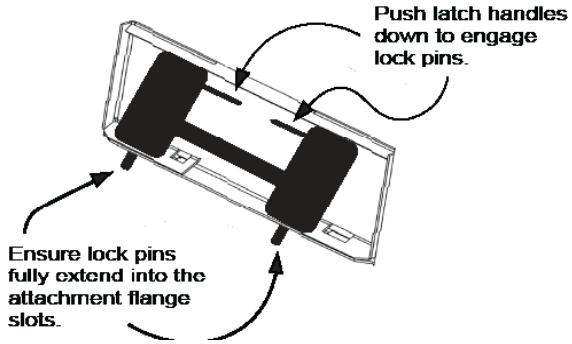


FIGURE 4.2B QUICK ATTACH COUPLER LOCKED TO ATTACHMENT PLATE



FIGURE 4.2C TRACTOR PIN ON HOOKUP

4.3 CONTROLS

HYDRAULIC FLOW REQUIREMENTS

When operating the attachment, always use your machine's standard auxiliary flow. Never use high flow as damage will occur to the cylinders, possibly causing contamination! If you are unsure of the machine's flow rate, contact the machine dealer.

4.3 CONTROLS

ATTACHMENT CONTROLS

Your attachment is designed to run off the machine's auxiliary hydraulic system, and is activated and deactivated by a control in the operator's cab. The height and tilt functions of your attachment are operated with the control handles or pedals in the cab. Consult your machine operator's manual for instructions regarding these functions.

⚠ CAUTION

Use care when operating on uneven terrain or any type of sloped surface. Keep your attachment low to the ground when working in these conditions to avoid a roll over that could result in Minor or Serious Injury.

LEARN what the attachment looks like in a level position when you are seated in the machine. Knowing what the level attachment looks like will prevent you from damaging the attachment if you get too close to the ground.

4.4 FIRST TIME USE



Please refer to our "Hydraulic Fluid and Oil Statement" on Page 5 for gear oil or hydraulic fluid instructions.



NOTICE

Before operating attachment, check the hydraulic fluid level in the host machine and add manfacturer recommended fluid if necessary.

Verify that hydraulic hoses are securely locked to the machine hydraulic couplers before starting the attachment

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

1. Set machine engine RPM to just above idle.
2. Switch on the auxiliary hydraulic circuit.
3. Open and close the jaws or shear for several full cycles to purge air from the system then switch off the auxiliary hydraulic circuit.

⚠ WARNING

To avoid serious injury by hydraulic fluid injection into your skin, never use your hand or other body parts to locate a hydraulic leak. Detect leaks with a piece of wood or cardboard.

4. Lower the attachment to the ground, shut off machine engine and exit the cab.
5. Check the hydraulic fluid level in the machine, add manufacturer recommended fluid if necessary.
6. Inspect the attachment hydraulic lines for noticeable leaks. Fix before continuing.
7. Restart machine, set engine RPM to slightly above idle.
8. Raise attachment off the ground and switch on the auxiliary hydraulic circuit.
9. Increase machine engine to full throttle and follow operating procedures for your attachment.

4.5 TREE SHEAR OPERATING PROCEDURES

DANGER

NEVER pry a tree if it does not fully cut. Keep shearing until the tree is fully cut.



WARNING

To prevent injury or death, keep people away from the machine and attachment during use. The attachment can drop trees and limbs in unpredictable directions. Ensure there are NO people, power lines, buildings, or objects in the fall zone.

NEVER cut trees without a completely clear fall zone.

DANGER **NEVER operate a Tree Shear near overhead power lines to prevent electric shock or electrocution.**

1. Always inspect work area before starting the attachment. Locate and mark any utilities, steel posts, rocks or any other objects that could damage the attachment during operation. NEVER assume the work area is safe.
2. Select a tree 12” in diameter or less.
3. Enter the operator’s cab, fasten seat belt, and start the engine.
4. Operate the machine at a safe speed that will allow you to watch the area ahead of the attachment & machine.

4.5 TREE SHEAR OPERATING PROCEDURES CONT.

WARNING

NEVER shear more than 2 feet above the ground when felling a tree to prevent tipping.

Cutting trees with the attachment in an elevated position could result in Death or Serious Injury if the machine becomes unstable.

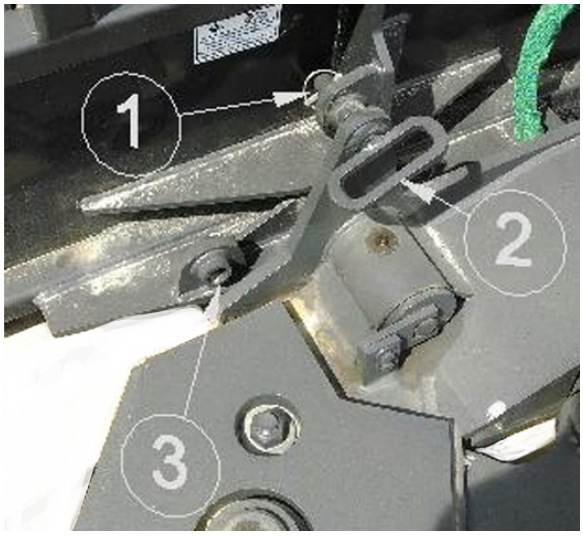
5. NOTE: When determining the fell zone, consider factors like the lean of the tree, contact with other trees, bend, wind direction, branch arrangement, and snow. Felling trees can be unpredictable.
6. Position the loader behind the tree so the fell zone is to the right of the loader. The attachment wedge directs trees to fall 90 degrees to the cab, but is still unpredictable.
7. Approach the tree with the loader arms within 2 feet of the ground.
8. Open the blade on the attachment and drive forward to position the tree between the blade and the jaw, activate the hydraulic cylinder to shear the tree.
9. Once the tree is sheared and is on the ground, open the blade and back the machine away from the tree stump.
10. ALWAYS keep the attachment low to the ground when moving from tree to tree.

ROTATING THE TREE SHEAR HEAD: MANUAL

CAUTION The Tree Shear head could swing suddenly when the lock pin is removed so 2 people may be needed to complete the head rotation safely.

NOTE: You will need another person to assist in rotating the shear head.

1. Move the machine to a flat level ground.
2. With a second person a safe distance from the attachment and machine, raise the attachment about 18” off the ground. Shut off the machine engine and remove your hands from the controls.
3. Alert the second person to stand on the pin side of the shear and pull the safety pin and lock pin from the top of the shear staying clear. (See arrows 1 & 2 in the following picture.)
4. Once both the safety and lock pins are removed, the shear head needs rotated 90˚ counterclockwise until the pin bracket aligns with the other lock bushing on the side of the frame (See arrow 3 in the following picture). Insert the lock pin and safety pin.
5. Once the other person has moved away from the machine and attachment to a safe distance, start the machine and resume working.
6. To return the Tree Shear head to the regular position, repeat the above procedure in reverse.



ROTATING SHEAR: HYDRAULIC
Make sure the rotation area is clear and the attachment is 2 feet from the ground before activating the rotation switch. Reverse flow direction, to rotate the shear head back to the horizontal shearing position.

4.6 TERMINATOR, TREE AND POST PULLER OPERATING PROCEDURES

DANGER **AVOID TIP OVERS THAT COULD RESULT IN SERIOUS INJURY OR DEATH:**

- **NEVER** raise the machine arms more than 2 feet above the ground when gripping a tree.
- **NEVER** pull a tree too large for the attachment or exceed the rated operating capacity of it.
- Avoid using the attachment on an incline or uneven ground.
- Carry tree as low as possible when transporting to another location.

DANGER

NEVER operate a Tree & Post Puller near overhead power lines to prevent electric shock or electrocution. Make sure there are NO people, power lines, buildings, or other objects that could be contacted when pulling, carrying, or releasing the tree. A spotter is recommended to help avoid obstacles when moving or lifting and to keep people away.

ALWAYS REMEMBER: Trees can fall in unpredictable directions.

WARNING

Trees over 8 feet tall must be pulled individually. Pulling multiple trees at once can cause machine instability and tree grip which could result in injury or death.

CAUTION DO NOT pull dead trees higher than your cab as the tree could split and/or falling branches could cause serious injury or death.

1. Always inspect work area before starting the attachment. Locate and mark any utilities, steel posts, rocks or any other objects that could damage the attachment during operation. NEVER assume the work area is safe. Enter the operator's cab, fasten seat belt, and start the engine.

2. Operate the machine at a safe speed that will allow you to watch the area ahead of the attachment & machine.

3. Position the machine behind the tree to be pulled with the machine arms less than 2 feet above the ground.

4. Activate the machine's auxiliary hydraulics to open the attachment jaw, and drive the loader forward to position the tree inside the jaw.

NOTICE The Terminator can be used to dig around the stump prior to pulling.

6. Activate the auxiliary hydraulics to close the attachment jaw on the tree. Lift the machine arms to pull the tree out of the ground.

7. For stubborn trees or posts, rock the attachment back & forth to loosen the dirt for easier removal.

8. Use the loader tilt to tip the tree away from the cab and lay it on the ground*.

9. *When transporting a tree with the Terminator, the back frame with grill can be used as a back stop to rest the tree against, however the Tree and Post Puller does not support the tree. When moving large trees, you can fully tilt the Terminator or Tree and Post Puller and drag a tree by the stump.

4.6 TERMINATOR, TREE AND POST PULLER OPERATING PROCEDURES CONT.

Pulling brush/tree/post under 8 feet tall

1. Always inspect work area before starting the attachment. Locate and mark any utilities, steel posts, rocks or any other objects that could damage the attachment during operation. NEVER assume the work area is safe. Enter the operator's cab, fasten seat belt, and start the engine.
2. Operate the machine at a safe speed that allows for observation both ahead and behind of the attachment and machine.
3. Position the machine behind the first brush/tree/post to be pulled with the machine arms less than 2 feet above the ground.
4. Activate the machine's auxiliary hydraulics to open the attachment jaw, and drive the loader forward into position the brush/tree/post inside the jaw.
5. Activate the auxiliary hydraulics to close the attachment jaw on the brush/tree/post. Lift the machine arms to pull the tree out of the ground.
6. If putting smaller diameter brush/tree/post, after pulling the first tree, drive machine to the next tree and repeat steps 1 through 4 for the second tree.
7. Repeat this process to continue to pulling items until the jaws are full.
8. **Use CAUTION when driving towards a tree.** Make sure that low-lying branches do not cause injury or death. We recommend using a closed cab to prevent injury or death.

4.7 LOG SPLITTER OPERATING PROCEDURES

1. Always inspect work area before starting the attachment. Locate and mark any utilities, steel posts, rocks or any other objects that could damage the attachment during operation. NEVER assume the work area is safe. Enter the operator's cab, fasten seat belt, and start the engine.
2. Operate the machine at a safe speed that allows for observation both ahead and behind of the attachment and machine.
3. Raise the attachment slightly off the ground.
4. Activate the machine's auxiliary hydraulics to open and close the pusher block.
5. Position the machine and log splitter above the log to be split. Always split from the end of the log along the grain.

   IMPORTANT: NEVER split a log across the grain. This log splitter is not designed for cross-grain splitting, and doing so may damage the splitter.

6. With the pusher block in the fully open position, lower the splitter over the log, aligning the log in the center of the wedge track. If the log is angled or off to one side, the split will be uneven or the log may slip out of the splitter.
7. **NEVER have anyone hold the log in the splitter to align as it could cause injury or a crushing death.**
8. Close the pusher block to split the log.
9. Open the pusher block and move to the next log to be split.
10. In the event the log splitter becomes jammed, turn off your machine and un-jam the splitter before continuing.
11. NOTE: The inverted log splitter can be equipped with an optional 4-way splitter wedge. The 4-way bolts onto the splitter in place of the standard 2-way wedge.

⚠ CAUTION

Make sure to keep the rails greased with No. 2 Lithium grease at all times. This may require re-greasing every 4 hours.

4.8 HOW TO DISMOUNT ATTACHMENT

DISMOUNTING ATTACHMENT

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

SECTION 5

MAINTENANCE PROCEDURES

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

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

WELDING REPAIRS

Welding on attachments must be performed by certified welders who have requested and obtained written approval from an authorized representative of the manufacturer before welding begins.

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 cutter unsafe to operate and **VOID THE WARRANTY**!.

WARNING **Only use genuine Original Equipment Manufacturer (OEM) replacement parts on this attachment. We will not be liable for any damages or injuries caused by the use of after market use parts on this attachment.**

NOTICE

Improper maintenance or modifications to the design or performance of this attachment will void the warranty. ONLY use genuine OEM replacement parts on this attachment.

Safety Instructions

Obey the following safety instructions when servicing or repairing this attachment

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

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

Ensure all jack stands, lifts and hoists are in good working condition and have the rated load capacity to support the load.

⚠ **Only perform service work in a well-lit area.**

⚠ **Allow the attachment to cool down before servicing this attachment.**

⚠ **NEVER work under an unsupported attachment.**

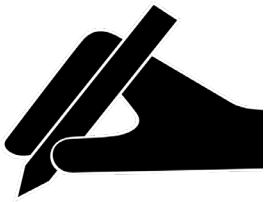
5.1 MAINTENANCE SCHEDULE

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.

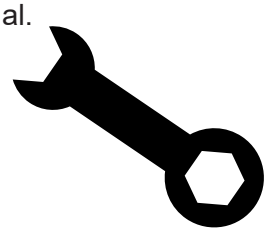
MAINTENANCE TASK	BEFORE EACH USE	WEEKLY	YEARLY
Check host machine's hydraulic fluid level. Add manufacturer recommended fluid as necessary. *Please refer to our "Hydraulic Fluid and Oil Statement" on Page 5 for gear oil or hydraulic fluid instructions.*	X		
Check that all fasteners (nuts, bolts, washers, pins, keepers) are in place. Tighten as necessary.	X		
Inspect and replace any worn, torn, or missing safety decals.	X		
Inspect hydraulic hoses and connectors for damage or leakage. Repair or replace hydraulic items as necessary.	X		
Lubricate with #2 Lithium grease.	X		
LOG SPLITTER: Make sure to keep the rails greased with #2 Lithium grease at all times. This may require re-greasing every 4 hours.	X		
Wash attachment		X	
Check attachment for major scratches & dings. Sand and repaint these areas to prevent rust damage. *Contact the manufacturer for approved OEM paint for your attachment.			X

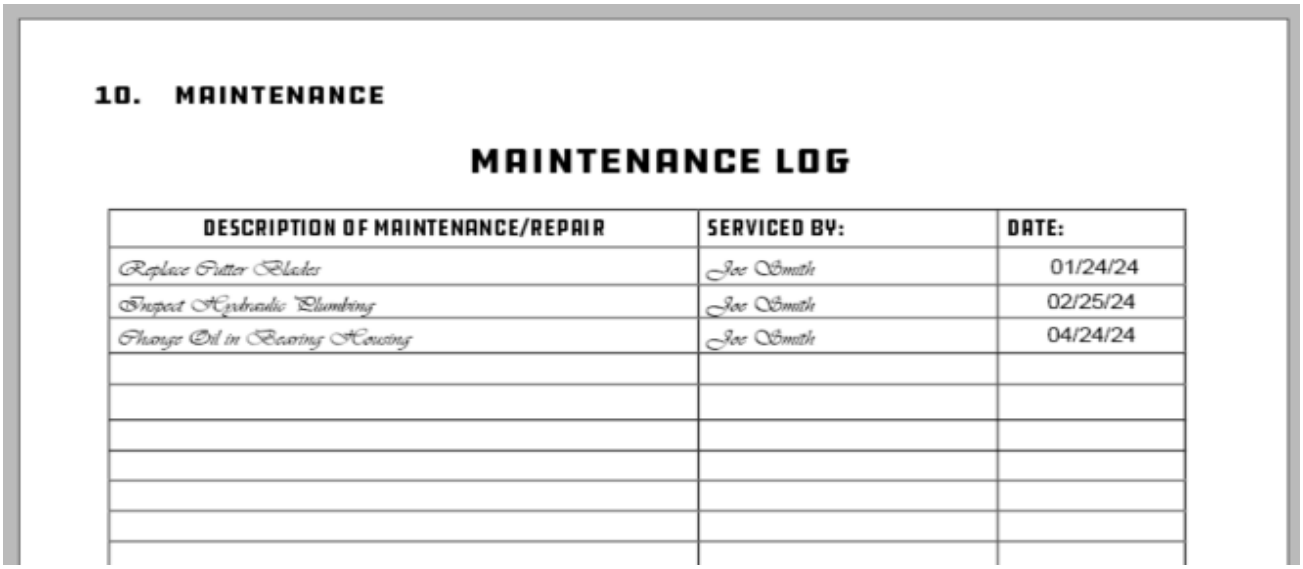
5.2 MAINTENANCE LOG INSTRUCTIONS

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



MAINTENANCE LOG





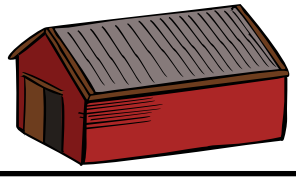
10. MAINTENANCE

MAINTENANCE LOG

DESCRIPTION OF MAINTENANCE/REPAIR	SERVICED BY:	DATE:
Replace Cutter Blades	Joe Smith	01/24/24
Inspect Hydraulic Plumbing	Joe Smith	02/25/24
Change Oil in Bearing Housing	Joe Smith	04/24/24

5.3 STORAGE TIPS

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

	Ensure attachment is free of water, debris, dirt and grease.
	Store your attachment in a dry shed or garage.
	When storing your attachment for the season, cover with a weather proof tarp to protect it from the elements.

5.4 TORQUE SPECIFICATION TABLE AND INSTRUCTIONS

BOLT TORQUE INSTRUCTIONS

1. Apply and maintain proper torque on all bolts.
2. Use lubricated torque values when applying Loctite. **Do not grease or oil bolts.**
3. Wipe bolts clean and use Loctite 635 or equivalent before tightening bolts. May need curing activator.
4. Use a torque wrench to assure the proper amount of torque is being applied to the bolt.
5. **MUST CURE 72 HOURS BEFORE USE TO PREVENT LOOSENING OF BOLTS.**

TORQUE VALUES

SAE GRADE 8

	DRY lb.-ft.	LUBRICATED lb.-ft.
1/4”	12	9
5/16”	24	18
3/8”	45	35
1/2”	110	80
3/4”	380	280
7/8”	600	450
1”	910	680
1 1/4”	1820	1360
1 1/2”	3162	2688

5.5 TORQUE EQUIPMENT REQUIREMENTS

TOOLS & EQUIPMENT REQUIREMENTS

To complete the maintenance procedures described in this section, you may need the following tools:

- 1/2 inch drive breaker bar
- 3/4 inch impact socket
- 1/2 inch impact socket
- Tapping Hammer
- 1/2 inch drive torque wrench
- Nylon pry bar set
- Safety stands
- **Loctite 635 or Equivalent-MUST CURE 72 HRS**
- Lifting device (overhead crane hoist, forklift)



NOTE:

When removing bolts with Loctite, it will be necessary to apply localized heat of at least 250 degrees Celsius or to 482 degrees Fahrenheit to loosen bolts.

LOCTITE 635 TECHNICAL SPECIFICATIONS FOR BONDING, CURING, REMOVAL AND INSTALLATION CAN BE FOUND HERE: https://next.henkel-adhesives.com/

5.5 EQUIPMENT REQUIREMENTS CONT.

⚠WARNING

To avoid serious injury or death only use jacks, hoists, lifts and tools that have the capacity for the job. Use certified safety stands rated to support the applicable load.

5.6 TREE SHEAR MAINTENANCE

⚠WARNING

Lower the attachment to the ground, shut the engine off, set the parking brake, relieve the hydraulic pressure to the attachment, and make sure all motion has stopped before exiting the cab.

The operator must perform daily inspections of the machine and attachment for damage, loose bolts, leaks, or safety risks, as preventative maintenance is the most cost effective and simple approach.

Safety Instructions

Screws and fasteners can loosen after initial usage. **RECHECK the tightness of the bolts and fasteners after the first hour of use!**

Lube Chart	**Number of Grease Fitting & Locations** **A** = Non-Rotating Shear Model **B** = Manual Rotating Shear Model **C** = Hydraulic Rotating Shear Model			
	Blade Pivot Shaft	Shear Cylinder Base Pin	Rotation Pivot Joint	Rotation Cylinder Pin (s)
A	1	1		
B	1	1	1	
C	1	1	1	2

Don't Forget To Grease Your Tree Shear!



5.7 TREE SHEAR BLADE REMOVAL AND REPLACEMENT

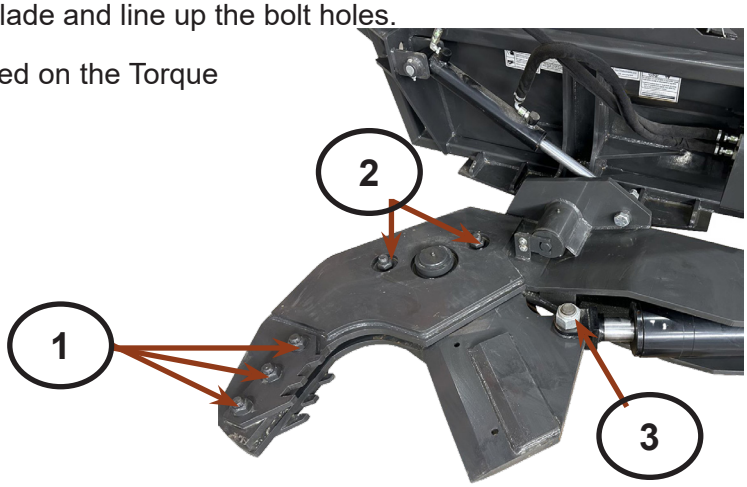
DANGER

To prevent a crushing death by the machine arms, a lift arm lock must be installed on the machine hydraulic piston by a second person before the operator can exit the machine cab. Refer to your machine operator's manual for lift arm lock installation procedures.

WARNING

To avoid serious injury or death from being crushed, use a lifting device that is rated to support the attachment during installation.

1. Raise the machine arms and install machine lift arm lock.
2. Shut off hydraulic flow to the attachment, and release pressure from the auxiliary hydraulic circuit.
3. Turn off machine engine, SET parking brake, and CHOCK machine tracks/tires to prevent machine from moving.
4. Secure the blade by using an overhead hoist and chain and/or place a rated lifting device under the blade.
5. Remove the **three bolts (#1)** that hold the tree grip set, the **two bolts** (**#2**) that hold the Shear Mounting Frame, and the **one bolt** (**#3**) on the cylinder rod end.
6. Remove existing blade, place new blade and line up the bolt holes.
7. Torque bolts to the Torque Value listed on the Torque Chart on page 29.



5.8 LOG SPLITTER CUTTING HEAD CHANGES: 2-WAY OR 4-WAY



4-Way Log Splitter Head

1. Remove bolts that hold the splitter head to the fixed plate.
2. Swap Log Splitter head.
3. Replace bolts and torque to the Torque Value on page 29.

SECTION 6

TROUBLESHOOTING

TREE SHEAR PROBLEM	POSSIBLE CAUSE	SOLUTION
Blade gets dull too quickly.	Blade has contacted solid objects (rocks, steel pipes, etc.)	Clear cutting area of solid objects before hitting them, or raise the shear height to clear exposed rock surfaces.
Blade breaking or bending	Excessive prying loads.	Do not use this attachment as a tree puller or a skidder. It is designed to shear the trees.
Host machine hydraulic fluid level goes down during operation.	Leaks in hydraulic hose, valve, or attachment cylinder.	Investigate and repair.
	Leaks in host machine hydraulic system.	Investigate and repair.
Hydraulic Shear Rotation does not work (Hydraulic rotation models only)	No electrical power source or damaged wiring.	Check that the 12V power source and a good ground is present. Check circuit fuse and replace if necessary. Check if wire between power source and switch, or between host machine and hydraulic valve has been damaged.
	Valve not shifting due to solenoid failure.	Shut off machine and release pressure in the auxiliary circuit. Check if solenoid coil is working.
	Electrical harness incorrect or not properly connected, or the pins are in the wrong location to activate the joystick controls.	Make sure the correct harness is being used and is properly connected. Using a multi-meter, check that the correct pins are activating when the joystick controls are engaged.
	Auxiliary hydraulics not activated.	Turn on auxiliary hydraulics before activating joystick controls.

⚠ DANGER

ONLY service the attachment on stable, even terrain. NEVER park on sloped terrain to avoid being struck and killed or seriously injured by the unexpected rolling or movement of the machine.

TERMINATOR, TREE & POST PULLER PROBLEM	POSSIBLE CAUSE	SOLUTION
Hydraulic leak	Loose or damaged fittings or hoses. Hydraulic cylinder is damaged or seals leaking.	Tighten or replace fittings and hoses. Replace cylinder or seals.
Jaw(s) do not move to open or close.	Material jamming the jaw(s) or cylinder(s). Pivot pins are damaged or seized. Cylinder seals are bypassing, or cylinder is damaged.	Clear any debris. Grease or replace pivot pins. Replace seals or cylinder.
Jaw(s) no longer align.	Prying with one jaw. Frame, pivot pin, or jaws have been damaged.	Avoid prying with one jaw. Replace damaged jaw. Replace damaged parts.
Jaws won't clamp tree or post tightly.	Machine hydraulic pressure is too low	Contact your dealer for a pressure test or service.
Cannot pull or lift tree.	Hydraulic fluid low in machine. Machine lifting capacity not sufficient.	Add hydraulic fluid to machine. Consider using a larger machine or rock tree back & forth while lifting to loosen root ball. Terminator: Dig around roots before pulling.

LOG SPLITTER PROBLEM	POSSIBLE CAUSE	SOLUTION
The log splitter has insufficient power to split the log.	Loose or damaged fittings or hoses. Machine not operating at full hydraulic pressure.	Tighten or replace fittings and hoses. Contact dealer for machine pressure test or service.
Log Splitter failing to move smoothly on rails.	Rails need greased. Debris is jammed in rails.	Grease rails. Turn the machine off & clear debris.
Hydraulic fluid levels go down on the host machine.	Leaks in hydraulic hose, or attachment cylinder. Leaks in the host machine hydraulic system.	Check for loose, damaged, or leaking hoses. Investigate and repair.
Log splitter push block does not move.	Material could be jamming the push block. Cylinder seals worn or hydraulic cylinder could be damaged.	Shut off machine and remove material. Replace seals or hydraulic cylinder.

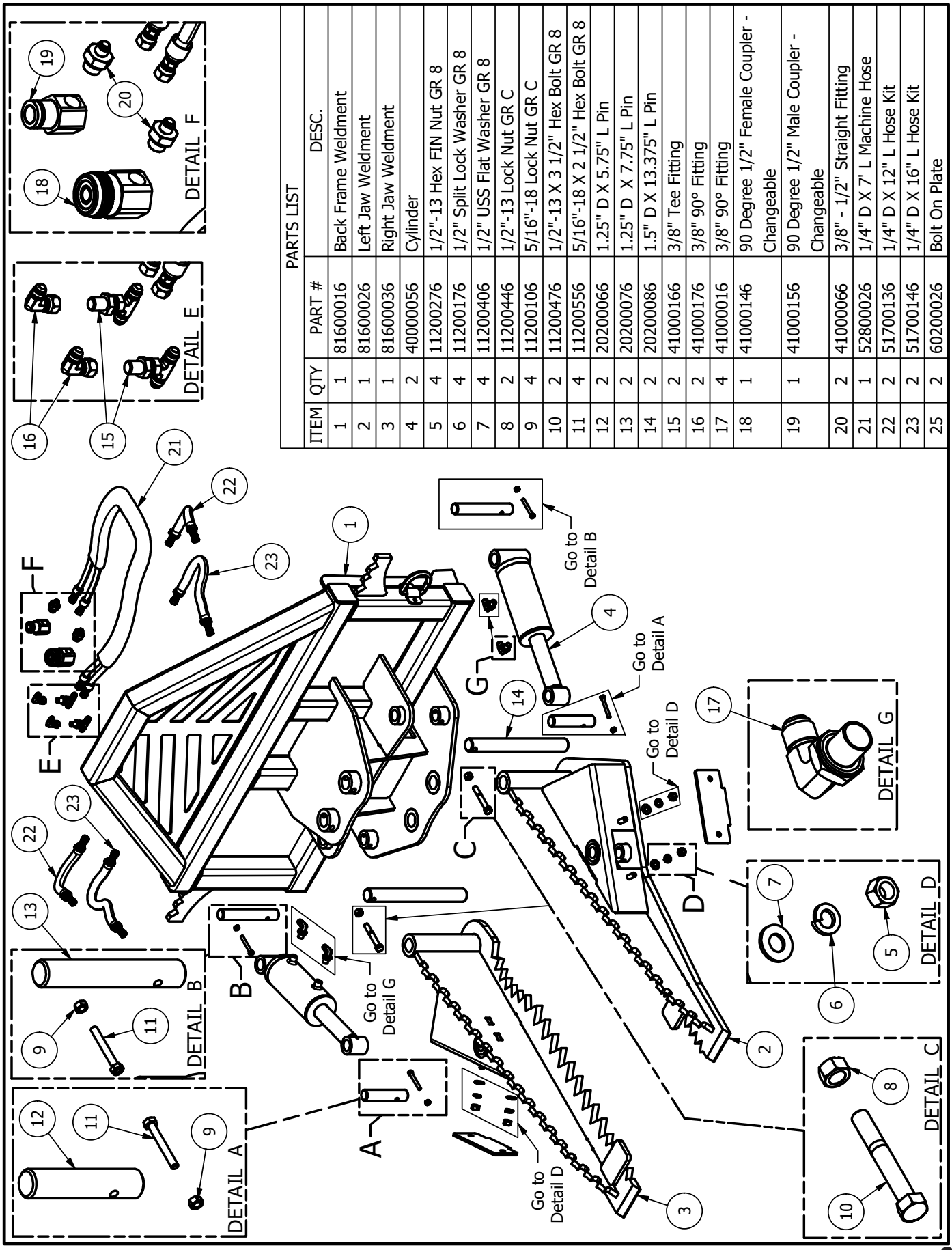
SECTION 7

PARTS INFORMATION

Factory OEM 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 Number	
Serial Number	
GPM Requirements	
Date of Owners Manual (Bottom Left Corner of Cover Page)	
Parts Diagram Page Number	
Part Description	
Reference #	
Quantity Desired	
Ship To Information	
Bill To / Payment Information	

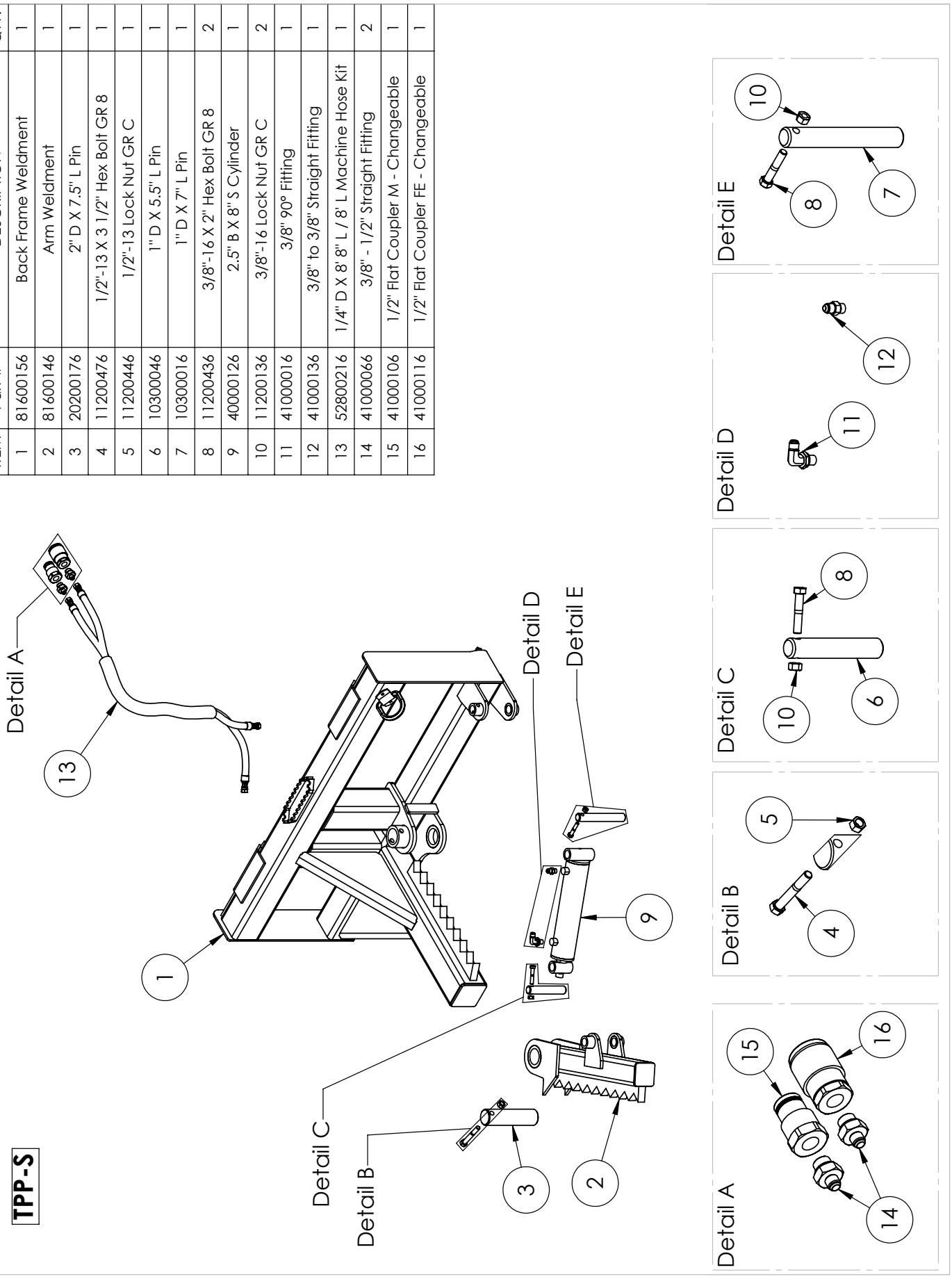


PARTS LIST

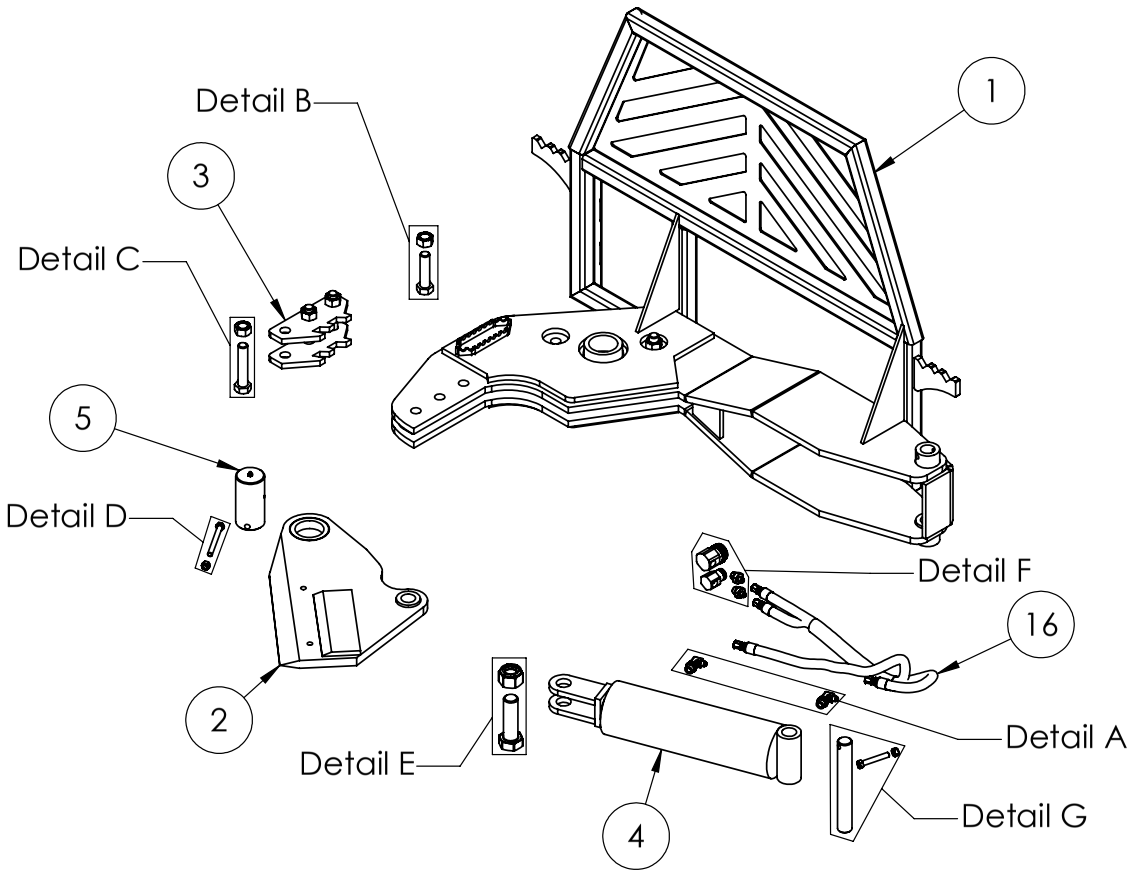
ITEM	QTY	PART #	DESC.
1	1	81600016	Back Frame Weldment
2	1	81600026	Left Jaw Weldment
3	1	81600036	Right Jaw Weldment
4	2	40000056	Cylinder
5	4	11200276	1/2"-13 Hex FIN Nut GR 8
6	4	11200176	1/2" Split Lock Washer GR 8
7	4	11200406	1/2" USS Flat Washer GR 8
8	2	11200446	1/2"-13 Lock Nut GR C
9	4	11200106	5/16"-18 Lock Nut GR C
10	2	11200476	1/2"-13 X 3 1/2" Hex Bolt GR 8
11	4	11200556	5/16"-18 X 2 1/2" Hex Bolt GR 8
12	2	20200066	1.25" D X 5.75" L Pin
13	2	20200076	1.25" D X 7.75" L Pin
14	2	20200086	1.5" D X 13.375" L Pin
15	2	41000166	3/8" Tee Fitting
16	2	41000176	3/8" 90° Fitting
17	4	41000016	3/8" 90° Fitting
18	1	41000146	90 Degree 1/2" Female Coupler - Changeable
19	1	41000156	90 Degree 1/2" Male Coupler - Changeable
20	2	41000066	3/8" - 1/2" Straight Fitting
21	1	52800026	1/4" D X 7' L Machine Hose
22	2	51700136	1/4" D X 12" L Hose Kit
23	2	51700146	1/4" D X 16" L Hose Kit
25	2	60200026	Bolt On Plate

7.2 TREE AND POST PULLER PARTS DIAGRAM

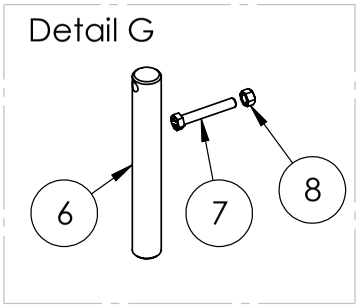
ITEM	Part #	DESCRIPTION	QTY.
1	81600156	Back Frame Weldment	1
2	81600146	Arm Weldment	1
3	20200176	2" D X 7.5" L Pin	1
4	11200476	1/2"-13 X 3 1/2" Hex Bolt GR 8	1
5	11200446	1/2"-13 Lock Nut GR C	1
6	10300046	1" D X 5.5" L Pin	1
7	10300016	1" D X 7" L Pin	1
8	11200436	3/8"-16 X 2" Hex Bolt GR 8	2
9	40000126	2.5" B X 8" S Cylinder	1
10	11200136	3/8"-16 Lock Nut GR C	2
11	41000016	3/8" 90° Fitting	1
12	41000136	3/8" to 3/8" Straight Fitting	1
13	52800216	1/4" D X 8' 8" L / 8' L Machine Hose Kit	1
14	41000066	3/8" - 1/2" Straight Fitting	2
15	41000106	1/2" Flat Coupler M - Changeable	1
16	41000116	1/2" Flat Coupler FE - Changeable	1

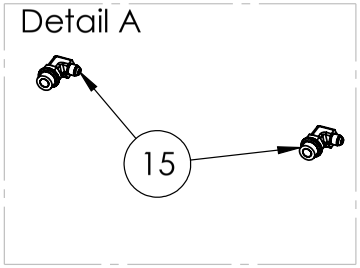


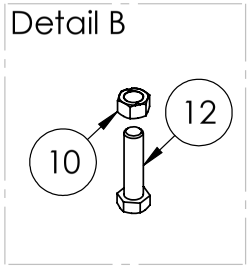
NRTS-S

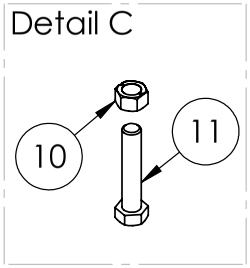


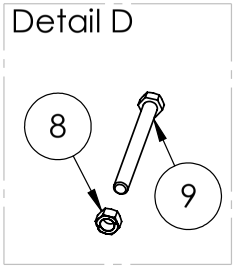
ITEM	Part #	DESCRIPTION	QTY.
1	81600216	Back Frame Weldment	1
2	81600116	Jaw Weldment	1
3	61800016	Side Teeth	2
4	40000066	5" B X 12" S Cylinder	1
5	20200116	3" D X 6" L Pin	1
6	20200096	1.5" D X 11.25" L Pin	1
7	11200666	1/2"-13 X 3 1/4" Hex Bolt GR 8	1
8	11200446	1/2"-13 Lock Nut GR C	2
9	11200676	1/2"-13 X 5" Hex Bolt GR 8	1
10	11200396	1"-8 Lock Nut GR C	5
11	11200616	1"-8 X 5" Hex Bolt GR 8	3
12	11200606	1"-8 X 4" Hex Bolt GR 8	2
13	11200626	1 1/2"-6 X 5" Hex Bolt GR 8	1
14	11200636	1 1/2"-6 Nyloc Insert Lock Nut	1
15	41000246	3/8" - 5/8" 90° Fitting	2
16	52900016	3/8" D X 9' Machine Hose	1
17	41000066	3/8" - 1/2" Straight Fitting	2
18	41000156	90 Degree 1/2" Male Coupler	1
19	41000146	90 Degree 1/2" Female Coupler	1

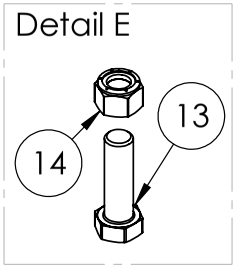


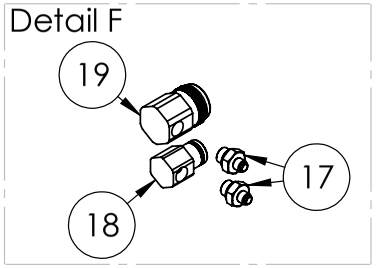




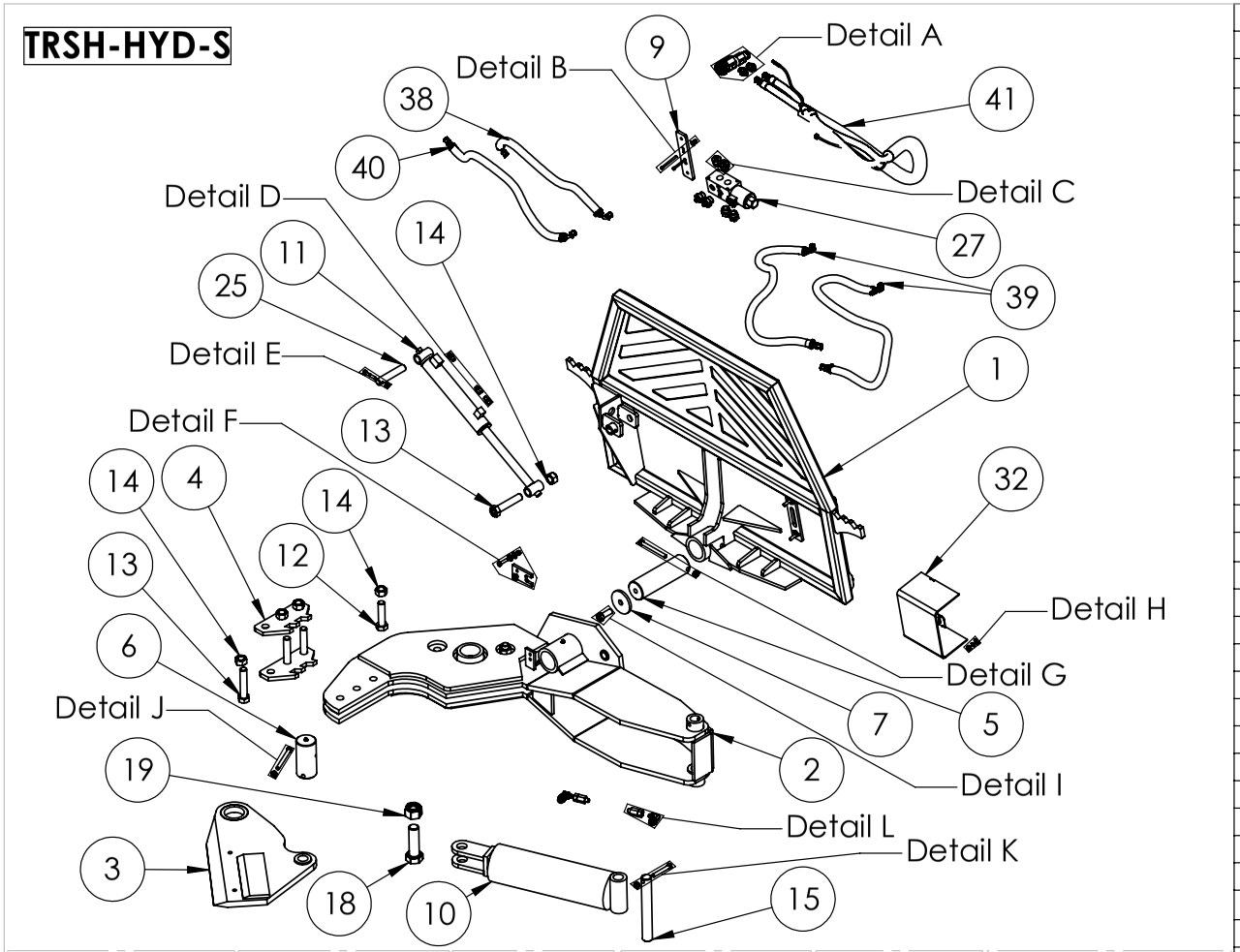


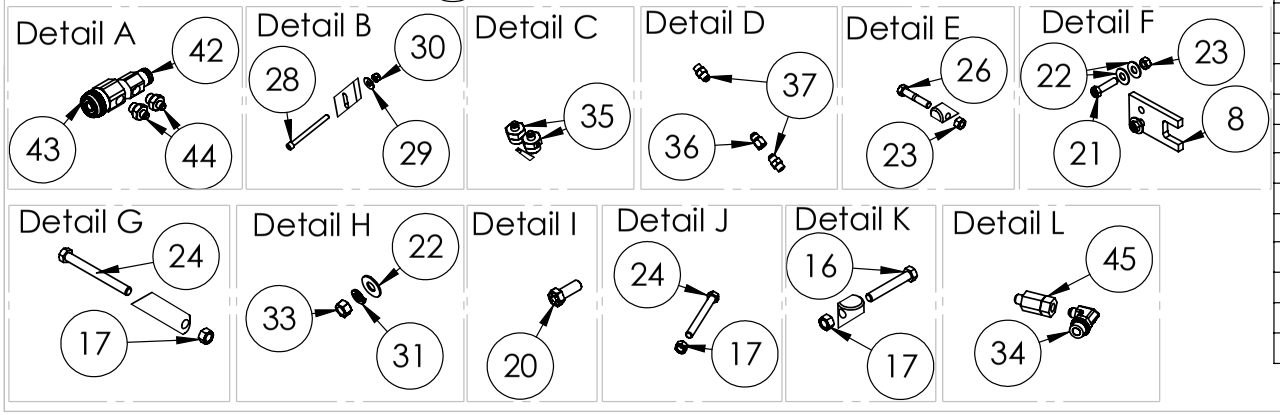






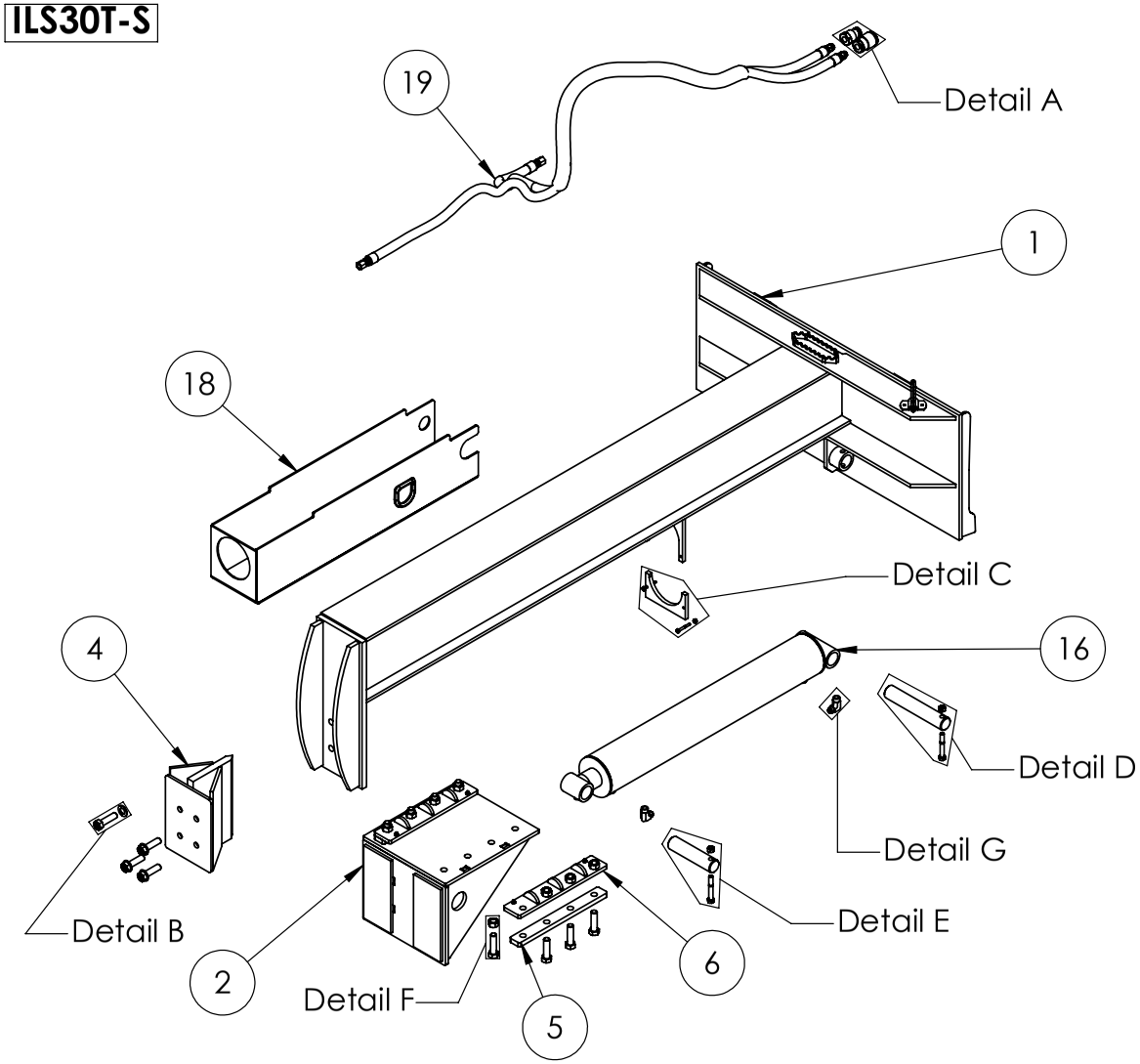
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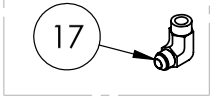
ITEM	Part #	DESCRIPTION	QTY.
1	81600096	Back Frame Weldment	1
2	81600106	Body Weldment	1
3	81600116	Jaw Weldment	1
4	61800016	Side Teeth	2
5	20200106	3" D X 10" L Pin	1
6	20200116	3" D X 6" L Pin	1
7	60400036	Pin Washer	1
8	60400026	Bolt Holder	1
9	90400016	Valve Spacer Plate	1
10	40000066	5" B X 12" S Cylinder	1
11	40000046	2" X 10" Cylinder	1
12	11200606	1"-8 X 4" Hex Bolt GR 8	2
13	11200616	1"-8 X 5" Hex Bolt GR 8	4
14	11200396	1"-8 Lock Nut GR C	6
15	20200096	1.5" D X 11.25" L Pin	1
16	11200666	1/2"-13 X 3 1/4" Hex Bolt GR 8	1
17	11200446	1/2"-13 Lock Nut GR C	3
18	11200626	1 1/2"-6 X 5" Hex Bolt GR 8	1
19	11200636	1 1/2"-6 Nyloc Insert Lock Nut	1
20	11200656	3/4"-16 X 2" Hex Bolt GR 8	1
21	11200646	3/8"-16 X 1 1/2" Hex Bolt GR 8	2
22	11200146	3/8" USS Flat Washer GR 8	6
23	11200136	3/8"-16 Lock Nut GR C	3
24	11200676	1/2"-13 X 5" Hex Bolt GR 8	2
25	10300046	1" D X 5.5" L Pin	1
26	11200436	3/8"-16 X 2" Hex Bolt GR 8	1
27	40600076	Selector Valve	1
28	11200826	1/4"-20 X 3" Socket Bolt	2
29	11201286	1/4" Flat Washer	2
30	11200076	1/4"-20 Lock Nut GR C	2
31	11201136	3/8" Lockwasher GR 8	2
32	50400166	Valve Cover	1
33	11200996	3/8"-16 Hex FIN Nut GR 8	2
34	41000246	3/8" - 5/8" 90° Fitting	2
35	41000276	3/8" Case Drain Fitting	6
36	41000056	3/8" - .031" Restrictor Fitting	1
37	41000136	3/8" to 3/8" Straight Fitting	2
38	51800126	3/8" D X 34" L Hose	1
39	51800136	3/8" D X 40" L Hose	2
40	51800146	3/8" D X 37" L Hose	1
41	51800146	3/8" D X 5ft L MH	1
42	41000156	90 Degree 1/2" Male Coupler	1
43	41000146	90 Degree 1/2" Female Coupler	1
44	41000066	3/8" - 1/2" Straight Fitting	2
45	41000446	Swivel Fitting	2

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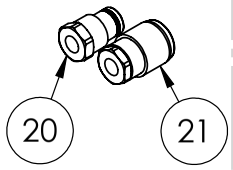


ITEM	Part #	DESCRIPTION	QTY.
1	81600176	Log Splitter Weldment	1
2	81600186	Pusher Weldment	1
3	90500016	Cylinder Holder Top	1
4	81600196	Splitter Head Weldment	1
5	90600016	Spacer	2
6	81600206	Slide Plate	2
7	20200366	1.75" D X 10" L Pin	1
8	20200386	1.75" D X 7.375" L Pin	1
9	11200476	1/2"-13 X 3 1/2" Hex Bolt GR 8	2
10	11200446	1/2"-13 Lock Nut GR C	2
11	11200346	1/4"-20 x 2" Hex Bolt GR 8	2
12	11200076	1/4"-20 Lock Nut GR C	2
13	11200206	3/4"-10 X 2 3/4" Hex Bolt GR 8	12
14	11200236	3/4" SAE Flat Washer GR 8	4
15	11200216	3/4"-10 Lock Nut GR C	8
16	40000136	5" B X 30" S Cylinder	1
17	41000356	1/2" - 1/2" 90° Fitting	2
18	81600166	Cylinder Cover	1
19	53000066	1/2" D X 8ft - 9ft 3in - Machine Hose Kit	1
20	41000106	1/2" Flat Coupler M - Changeable	1
21	41000116	1/2" Flat Coupler FE - Changeable	1

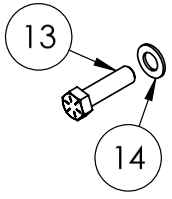
Detail G



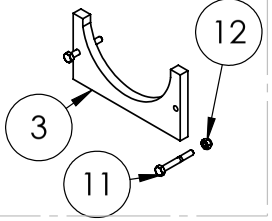
Detail A



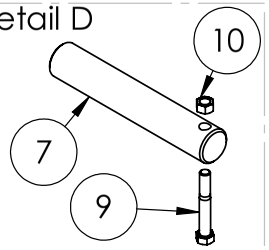
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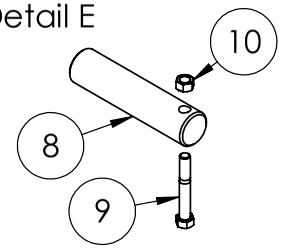
Detail C



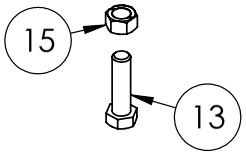
Detail D



Detail E



Detail F



SECTION 8

LIMITED WARRANTY

IronCraft (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. Commercial use of this equipment is not covered under any warranty. 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 cover any product or parts not manufactured by IronCraft.

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 IronCraft.

Warranty coverage and performance is expressly conditioned upon the return of the completed registration form to:

IronCraft, 7 Rocky Mt Rd, Athens, Tennessee 37303. Registration can be found on our website www.ironcraftusa.com

IronCraft reserves the right to make improvements and changes in specifications without notice or obligation to modify previously sold units. The Owner's Manual describes the proper assembly procedures for your implement and furnishes operating and maintenance recommendations to help you obtain long and satisfactory service.

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.

Purchaser and IronCraft hereby (a) submit to the non-exclusive jurisdiction of the courts of competent jurisdiction in Meigs County, Tennessee, and the United State District Court for the Eastern District of Tennessee for resolution of any dispute concerning this Limited Warranty or the rights or obligations of Purchaser and/or IronCraft; (b) agree that any litigation commenced in Tennessee in connection with this Limited Warranty shall be venued in either the Meigs County, Tennessee District Court, or the United States District Court, Eastern District of Tennessee, Southern Division, and (c) waive any objection it may have as to any such action or proceeding brought in such court that such court is an inconvenient forum. Nothing herein shall limit the right of Purchaser or IronCraft (or the right of any permitted successor or assign of either) to bring proceedings against the other in the courts of any other jurisdiction wherein any assets of such other party may be located.

REGISTER

This registration form must be filled out within 30 days of delivery to the purchaser or future warranty claims will not be honored.

www.ironcraftusa.com/warranty/register-warranty/

www.ironcraftusa.com/warranty/claim-warranty/

SECTION 9

SAFETY ACKNOWLEDGMENT

ATTENTION 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.

OPERATOR NAME	SIGNATURE	DATE

SECTION 10

MAINTENANCE LOGSHEETS

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

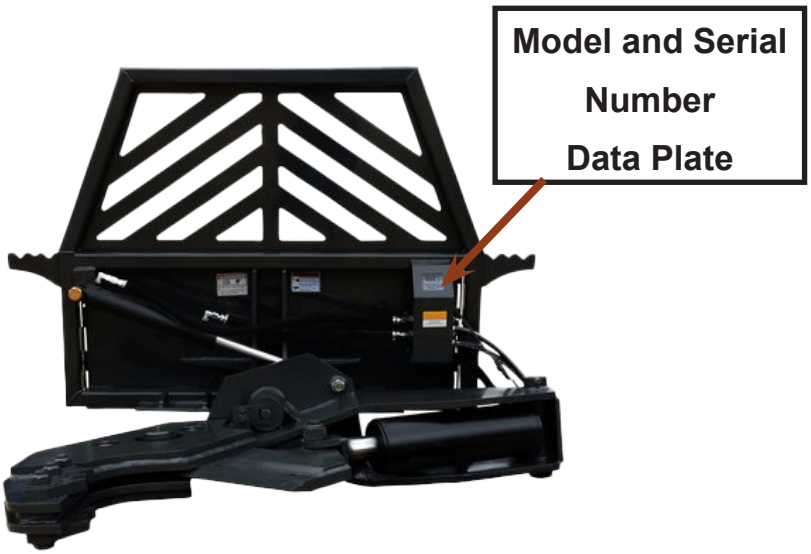
DESCRIPTION OF MAINTENANCE/REPAIR	SERVICED BY:	DATE:

The Model and Serial numbers will be in one of (4) places and will either be etched into the attachment or on a Data Plate.

Instructions: Stand at the back of the attachment facing the attachment mounting bracket and look in the following locations:

2) Top- left or right

3) Back-left or right



PLEASE NOTE: The Model and Serial number may be etched or on a Data Plate.

Disclaimer: Any critical changes made to this manual by individuals outside the manufacturer's authorized personnel are doing so at their own risk. The manufacturer cannot be held legally responsible for any consequences, damages, or liabilities resulting from such modifications. It is advised to adhere strictly to the original manual provided by the manufacturer for optimal performance, safety, and reliability.

IRONCRAFT

7 ROCKY MT RD

Athens, Tennessee 37303

(P) 423-405-5150

(F) 423-405-5904

WWW.IRONCRAFTUSA.COM

FARM EQUIPMENT MANUFACTURERS ASSOCIATION
FEMA

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