



Tree Puller

For

Skid Steer Loaders

Operator's Manual
Maintenance
Parts Information



Read this Manual Before Use

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REFERENCE INFORMATION

Write the serial number for your attachment in the spaces below. Always refer to this serial number when calling for service or parts.

Serial Number.....

YOUR ATTACHMENT DEALER

ADDRESS:

PHONE:

CONTACT:

NOTE: *Erskine Attachments LLC reserves the right to make improvements in design or changes in specifications at any time without notice and without incurring any obligations to install them on units previously sold.*

SAFETY

DO NOT use or perform maintenance on this machine until this manual has been read and understood. In addition, read the Operation and Maintenance Manual(s) pertaining to the attachment and the attachment carrier (“Loader”).

The user is responsible for inspecting the machine daily, and for having parts repaired or replaced when continued use of the machine would cause damage, excessive wear to other parts or make the machine unsafe for continued operation.

If an operating procedure, tool device, maintenance or work method not specifically recommended is used, you must satisfy yourself that it is safe for you and others. You must also ensure that the attachment will not be damaged or made unsafe by the procedures you choose.

Erskine Attachments LLC cannot anticipate every possible circumstance that might involve potential hazard. The safety messages found in this manual and on the machine are therefore not all inclusive.

The signal words **CAUTION**, **WARNING**, or **DANGER** are used to indicate hazards.

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

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

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

The word **IMPORTANT** is used in the text when immediate damage will occur due to improper technique or operation.

The word **NOTE** is used to convey information that is out of context with the manual text; special information such as specifications, techniques, reference information, and other information of a supplementary nature.

Improper operation can cause serious injury or death.

Pre-operation

- This attachment is designed for pulling brush and trees up to 8" in diameter only. **NEVER** use this machine for any other purpose.
- To protect the operator, the loader must be fitted with approved Forestry Door, Forestry Kit, and Level II Falling Object Protective Structure (FOPS) Kit in order to operate the attachment.
- Read the operator's manual for the "Skid Steer Loader." **NEVER** allow untrained people to operate.
- Operating instructions must be given to everyone before operating this attachment and at least once a year thereafter in accordance with OSHA regulations.
- **NEVER** exceed the maximum recommended input power or speed specifications for the attachment. Over-powering or over-speeding the attachment may cause personal injury and/or machine damage.
- Keep all shields, guards, and covers in place.
- Do not modify equipment or add attachments that are not approved by Erskine Attachments LLC.
- Use adequate safety warning lights and devices as required by local regulations. Obey all local laws and regulations regarding machine operation on public property.

Operation

- Hydraulic connections may be hot after use. Use gloves if connecting or disconnecting after use.
- Check and be sure all operating controls are in neutral before starting the engine.
- Keep people away from loader and attachment when in use. This attachment can drop trees and limbs in unexpected directions.
- To avoid electric shock or electrocution, **NEVER** operate the attachment near overhead power lines.

Operation (continued)

- **NEVER** operate near embankments or terrain that is so steep that rollover could occur. If trees must be pulled in areas with side hills, care must be taken to avoid tipping during operation.
- **NEVER** attempt to pull a tree larger than the rated capacity of the tree puller.
- Always stay in the operator position when using the attachment.
- Before leaving the operators position, close the attachment, lower the attachment to rest flat on the ground, stop engine, set park brake, relieve hydraulic pressure to attachment, and wait for all motion to stop.
- **NEVER** place hands near attachment or clear debris while engine is running.

Avoid High Pressure Fluids Hazard



- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Avoid the hazard by relieving the pressure before disconnecting hydraulic lines.
- Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks. Wear protective gloves and safety glasses or goggles when servicing or performing maintenance on hydraulic systems.
- If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.

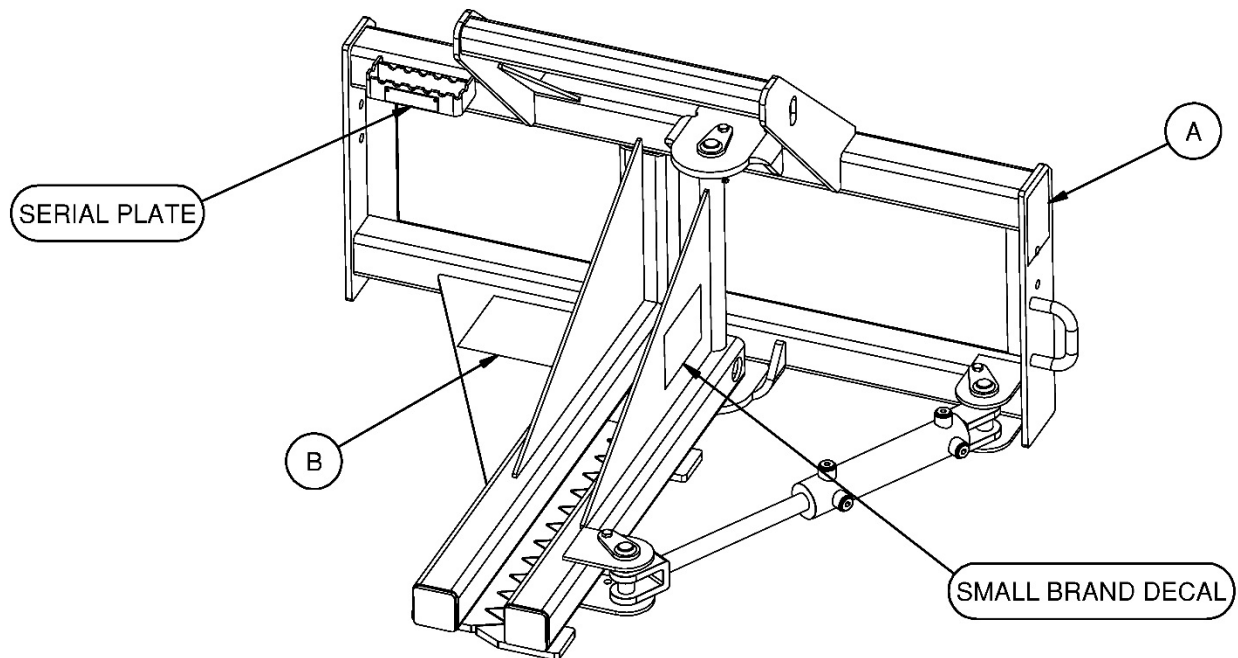
Maintenance

- **NEVER** make adjustments, lubricate, clean, or perform any service on the machine while it is in operation.
- Make sure the attachment is serviced on a daily basis. Improper maintenance can cause serious injury or death in addition to damage to the attachment and/or your equipment.

SERIAL NUMBER AND SAFETY DECAL LOCATIONS

Serial Number Location:

It is important to refer to the serial number of the attachment when making repairs or ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use different procedures in doing a specific operation.



SERIAL NUMBER AND SAFETY DECAL LOCATIONS

(A)

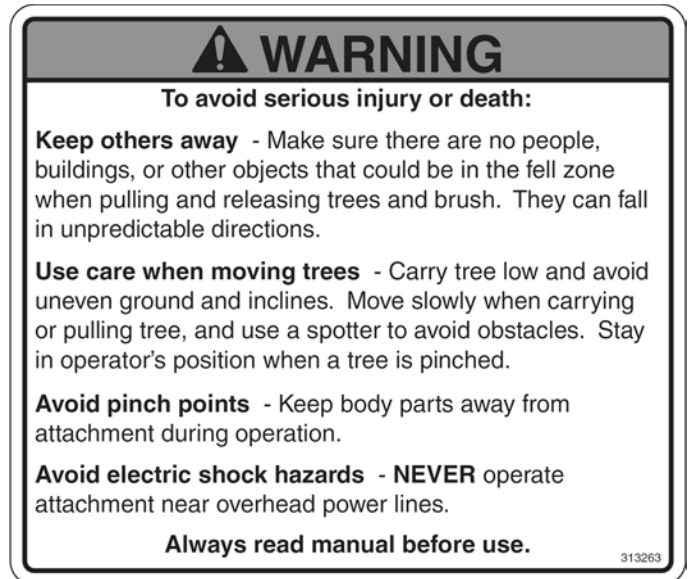


Part number: 200001

Location: On left mount plate

Quantity: 1

(B)



Part number: 313263

Location: On jaw gusset

Quantity: 1

Small Brand Decal

Location: On each side of main pivot

Quantity: 2

Safety Decals Locations:

The locations of the safety decals are shown. If these decals are missing, damaged, or painted over they must be replaced. Call Erskine Attachments LLC (218-435-4045) for replacement decals.

USER'S MOUNTING INSTRUCTIONS

After the initial set-up assembly is completed, use the following procedure to mount the attachment to the loader for user operation.

⚠ WARNING Coupler wedges or pins must extend through the holes in attachment. Levers must be fully down and locked. Failure to secure wedges or pins can allow attachment to come off and cause injury or death.



1. Use the step, safety treads, and grab handles to get on and off the loader and attachment.

2. Sitting in the operator's seat, lower seat bar and fasten the seat belt.

3. Drive the loader to the rear of the attachment. Put the loader quick attach coupler into the attachment mounting bracket.

4. Tilt the loader coupler backward a small amount until it is fully engaged in the attachment mounting bracket.

5. Stop the engine and engage the park brake.

6. Secure the coupler locking mechanism that attaches the attachment to the loader.



USER'S MOUNTING INSTRUCTIONS

7. Connect the hydraulic quick couplers from the attachment to the loader.

IMPORTANT: Wipe the ends of the hydraulic quick couplers (both lead and loader) with a rag to remove any possible contamination. Contamination can cause hydraulic components to fail and is not covered under warranty.

IMPORTANT: Make sure the quick couplers are fully engaged. If the quick couplers do not fully engage, check to see that the couplers are the same size and brand. Do not force the quick couplers together.

NOTE: See the loader's operator's manual for auxiliary hydraulic specifications and connection instructions.

NOTE: Attachment is shipped with 8FJX (1/2" Female JIC Swivel) fittings on the ends of the lead hoses.

8. Make sure the hoses are properly routed to fit your specific loader. If the hoses are not routed correctly, hoses may get pinched or rub on tires. Be sure to check the hose routing through the full range of intended motion of the attachment before operating it.

More than one routing may be acceptable depending on the loader. Pick the routing that best suits your loader.

IMPORTANT: Proper hose routing is the responsibility of the owner and/or operator. Pinched or stretched hoses are not covered under warranty.

Mounting is now complete and the attachment is ready for operation. Use reverse order of above instructions to dismount the attachment from the loader.



OPERATING INSTRUCTIONS

⚠ WARNING To avoid tipovers that could result in serious injury or death:

- NEVER pull a tree larger than 8" in diameter,
- Avoid using the attachment on an incline or uneven ground,
- NEVER raise loader arms more than 2 feet above the ground when gripping a tree, and
- Carry tree as low as possible when moving to a new location.

⚠ WARNING Contact with electrical power lines can be fatal. Make sure there are no people, power lines, buildings, or other objects that could be contacted when pulling, carrying, or releasing a tree. Use a spotter to help avoid obstacles when moving or lifting, and keep people away when releasing trees as they can fall in unpredictable directions.



Pulling a Tree Over 8 Feet Tall

⚠ WARNING Any tree over 8 feet tall must be pulled individually. Pulling multiple trees at once can reduce loader stability and tree grip, and may result in injury or death.

1. With the operator in the loader seat, seat belt fastened, and seat bar lowered (if so equipped), start the engine.
2. Position the loader behind the tree to be pulled with the loader arms less than 2 feet above the ground.
3. Activate the loader's auxiliary hydraulics to open the attachment jaw (see loader's operator's manual for auxiliary hydraulic controls), and drive the loader forward to position the tree inside of the jaw.
4. Activate the auxiliary hydraulics to close the attachment jaw on the tree. Lift the loader arms to pull the tree out of the ground. Use the loader tilt to tip the tree away from the cab and lay it on the ground.



OPERATING INSTRUCTIONS

Pulling Brush Under 8 Feet Tall

NOTE: If the tree puller is being used to pull brush that is less than 8 feet tall, the jaw can hold multiple trees at a time.

1. With the operator in the loader seat, set belt fastened, and seat bar lowered (if so equipped), start the engine.
2. Position the loader behind the first tree to be pulled with the loader arms less than 2 feet above the ground.
3. Activate the loader's auxiliary hydraulics to open the attachment jaw (see loader's operator's manual for auxiliary hydraulics controls), and drive the loader forward to position the tree inside of the jaw.
4. Activate the auxiliary hydraulics to close the attachment jaw on the tree. Lift the loader arms to pull the tree out of the ground.
5. After pulling the first tree, drive the loader to the next tree and repeat steps 1 through 4 for the second tree.
6. Repeat this process to continue pulling brush until the jaw is full.







ROUTINE MAINTENANCE

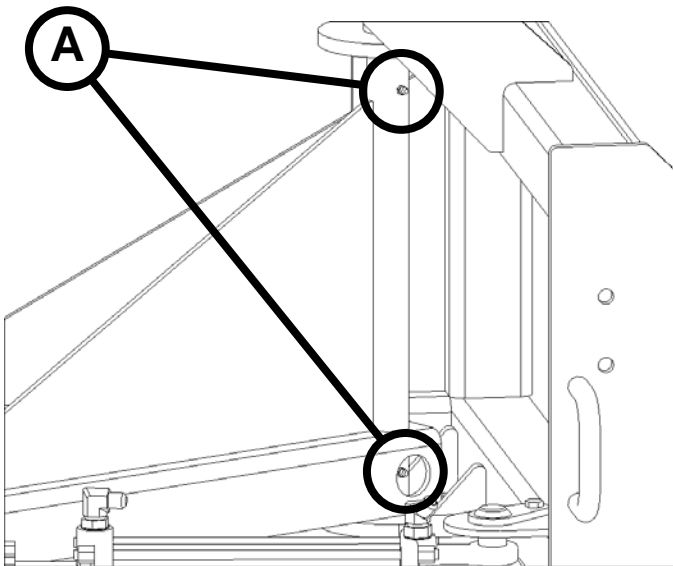
⚠ WARNING Lower the attachment to the ground, shut down the engine, relieve the hydraulic pressure to the attachment, wait for all motion to stop, and set park brake before leaving the operator's seat to perform service of any kind.

It is the operator's responsibility to make daily inspections of the loader and attachment for damage, loose bolts, fluid leaks, or anything else that could cause a potential service or safety problem. Preventive maintenance is the easiest and least expensive type of maintenance.

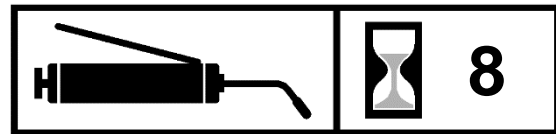
IMPORTANT: Bolts and set screws can loosen after initial usage. After the first hour of operation check all bolts and set screws.

LUBRICATION

Lubrication Legend	 Multipurpose spray lube	 No. 2 Lithium base gun grease	 Clean engine oil	 50 Intervals at which lubrication is required
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Use No. 2 lithium base gun grease when lubricating all the attachment grease fittings.



Grease both jaw pivot zerks [A] every **8 hours** of operation.

BOLT TORQUE INFORMATION

Torque-Tension Relationships for SAE J429 Grade Bolts

Nominal Thread Size	SAE J429 Grade 2			SAE J429 Grade 5			SAE J429 Grade 8		
	Clamp Load (lbs)	Tightening Torque		Clamp Load (lbs)	Tightening Torque		Clamp Load (lbs)	Tightening Torque	
		K = .15	K = .20		K = .15	K = .20		K = .15	K = .20
Unified Coarse Thread Series									
1/4-20	1,300	49 in-lbs	65 in-lbs	2,000	75 in-lbs	100 in-lbs	2,850	107 in-lbs	143 in-lbs
5/16-18	2,150	101	134	3,350	157	210	4700	220	305
3/8-16	3,200	15 ft-lbs	20 ft-lbs	4,950	23 ft-lbs	31 ft-lbs	6,950	32.5 ft-lbs	44 ft-lbs
7/16-14	4,400	24	30	6,800	37	50	9,600	53	70
1/2-13	5,850	36.5	49	9,050	57	75	12,800	80	107
9/16-12	7,500	53	70	11,600	82	109	16,400	115	154
5/8-11	9,300	73	97	14,500	113	151	20,300	159	211
3/4-10	13,800	129	173	21,300	200	266	30,100	282	376
7/8-9	11,425	125	166	29,435	321	430	41,550	454	606
1-8	15,000	187.5	250	38,600	482.5	640	54,540	680	900
Unified Fine Thread Series									
1/4-28	1,500	55 in-lbs	75 in-lbs	2,300	85 in-lbs	115 in-lbs	3,250	120 in-lbs	163 in-lbs
5/16-24	2,400	112	150	3,700	173	230	5,200	245	325
3/8-24	3,600	17 ft-lbs	22.5 ft-lbs	5,600	26 ft-lbs	35 ft-lbs	7,900	37 ft-lbs	50 ft-lbs
7/16-20	4,900	27	36	7,550	42	55	10,700	59	78
1/2-20	6,600	41	55	10,200	64	85	14,400	90	120
9/16-18	8,400	59	79	13,000	92	122	18,300	129	172
5/8-18	10,600	83	110	16,300	128	170	23,000	180	240
3/4-16	15,400	144	193	23,800	223	298	33,600	315	420
7/8-14	12,610	138	184	32,480	355	473	45,855	500	668
1-12	16,410	205	273	42,270	528	704	59,670	745	995

Clamp load estimated as 75% of proof load for specified bolts.

Torque values for 1/4 and 5/16 inch series are in inch-pounds. All other torque values are in foot-pounds.

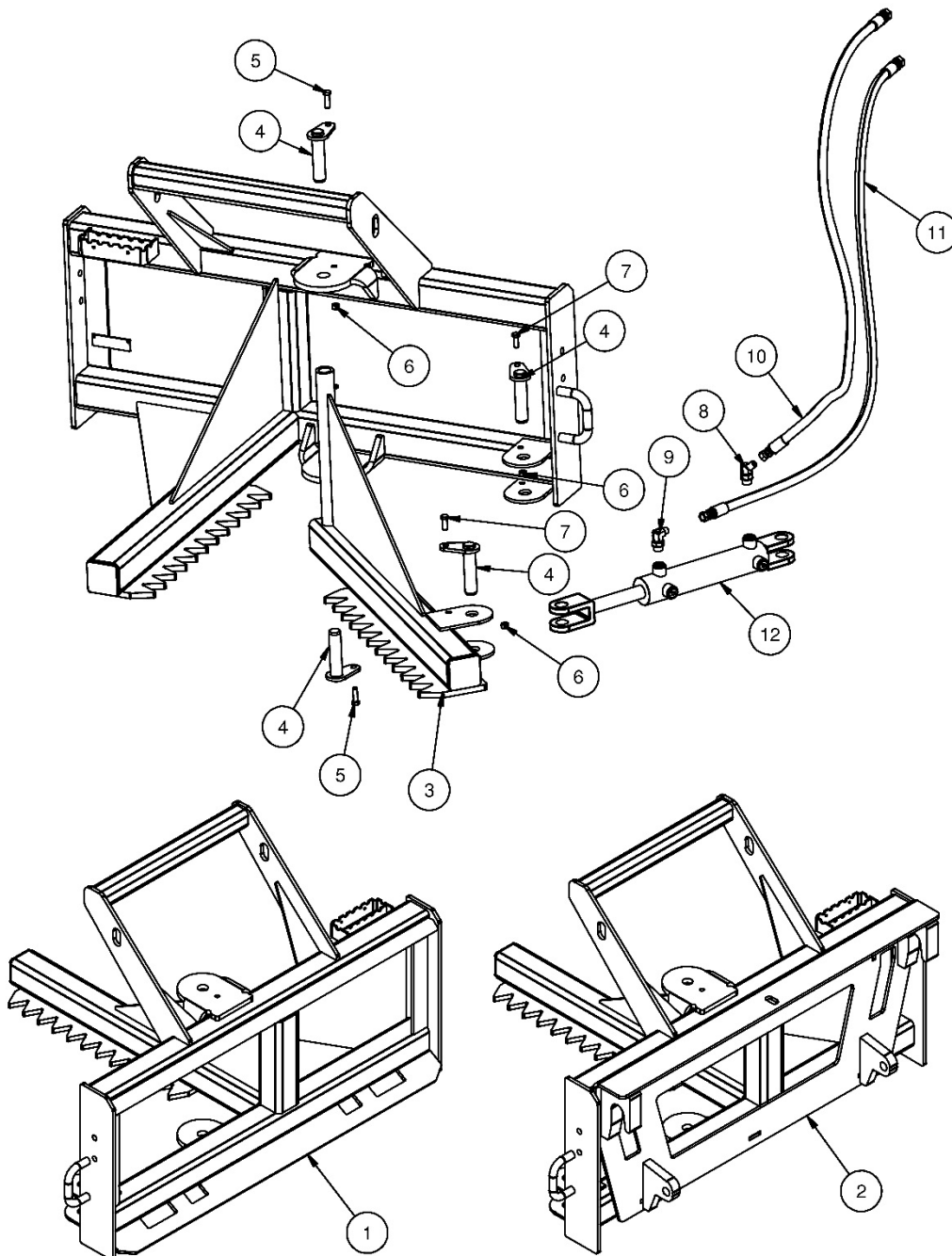
Torque values calculated from formula $T = KDF$

where: $K=0.15$ for "lubricated" conditions

$K=0.20$ for "dry" conditions

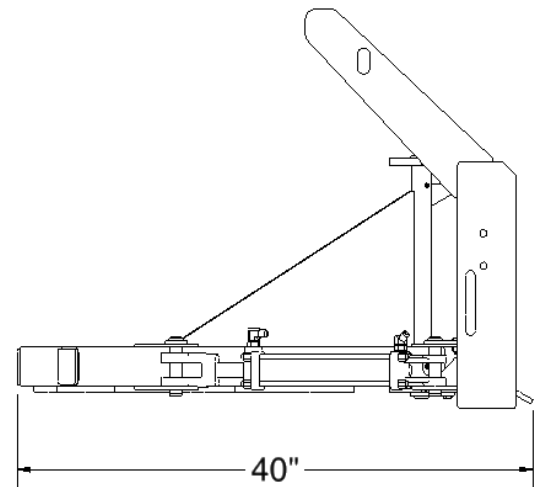
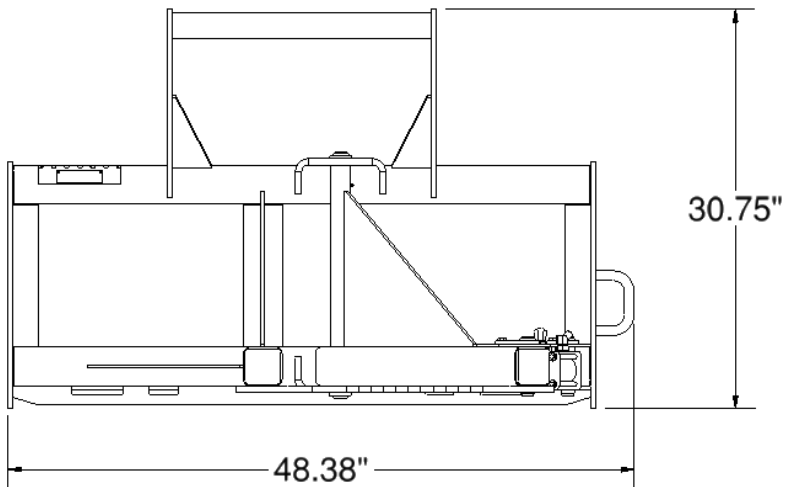
TREE PULLER PARTS INFORMATION

ITEM	QTY	PART NO.	DESCRIPTION	STOCK NO.
1	1	313250	MOUNT FRAME PULLER W/A	
2	1	422138	MOUNT FRAME PULLER EURO W/A	EURO MOUNT
3	1	313251	JAW TREE PULLER W/A	
4	4	400041	PIN 1 X 4 W/A	
5	2	13107	BOLT HEX	3/8 X 1-1/4 NC GR 5
6	4	37212	NUT HEX LOCK	3/8 NC
7	2	103116	BOLT HEX	3/8 X 1 NC GR 5
8	1	300274	ADPT ELB 8MB-6MJ-45	
9	1	313267	ADPT ELB 8MB-6MJ-90-125	
10	1	313268	HOSE 3/8 X 57 6FJX-8FJX	BASE </td
11	1	313269	HOSE 3/8 X 66 6FJX-8FJX	ROD
12	1	330921	CYLINDER 2 X 8 WELDED C-C	REPLACED 201228
	1	201228	CYLINDER 2 X 8 20.25	REPLACED BY 330921



GENERAL SPECIFICATIONS

Model	Tree Puller
Hydraulic Cylinder Working Pressure	3000 psi
Hydraulic Cylinder Bore	2"
Hydraulic Cylinder Stroke	8"
Hydraulic Cylinder Rod Diameter	1.13"
Maximum Tree Diameter	8"
Overall Height	31.75"
Overall Width	48.38"
Overall Length	40"
Operating Weight	300 lbs.



All dimensions are in INCHES.

LIMITED WARRANTY

Erskine Attachments LLC warrants each new machine manufactured by us to be free from defects in material and workmanship for a period of twenty-four (24) months from date of delivery to the original purchaser.

Our obligation under this warranty is to replace free of charge, at our factory or authorized dealership, any part proven defective within the stated warranty time limit.

All parts must be returned freight prepaid and adequately packaged to prevent damage in transit.

This warranty does not cover:

1. New products which have been operated in excess of rated capacities or negligence
2. Misuse, abuse, accidents or damage due to improperly routed hoses
3. Machines which have been altered, modified or repaired in any manner not authorized by our company
4. Previously owned equipment
5. Any ground engaging tools in which natural wear is involved, i.e. tooth tips, cutting teeth, etc
6. Normal maintenance
7. Fork tines
8. Hydraulic motors that have been disassembled in any manor

In no event will the Sales Representative, Dealership, Erskine Attachments LLC, or any other company affiliated with it or them be liable for incidental or consequential damages or injuries, including but not limited to the loss of profit, rental or substitute equipment or other commercial loss. Purchaser's sole and exclusive remedy being as provided here in above.

Erskine Attachments LLC must receive immediate notification of defect and no allowance will be made for repairs without our consent or approval.

This warranty is in lieu of all other warranties, express or implied by law or otherwise, and there is no warranty of merchantability or fitness purpose.

No agent, employee, or representative of Erskine Attachments LLC has any authority to bind Erskine Attachments LLC to any warranty except as specifically set forth herein. Any of these limitations excluded by local law shall be deemed deleted from this warranty; all other terms apply.

This warranty may not be enlarged or modified in any manner except in writing signed by an executive officer of Erskine Attachments LLC to improve its products whenever it is possible and practical to do so. Erskine Attachments LLC reserves the right to make changes and or add improvements at any time without incurring any obligation to make such changes or add such improvements to products previously sold.

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