



*Hydraulic Chain Saw*



# Installation and Safety Manual

2010 Edition for Limbinator Saws, LLC

For questions or information about this equipment, please call

**(580) 272-3194**

or go to our website:

**[www.LimbinatorSaws.com](http://www.LimbinatorSaws.com)**

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## Hydraulic Chain Saw

# Installation & Safety Manual

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This manual contains the recommended installation and safety guidelines and instructions. Please completely familiarize yourself with these instructions and safety guidelines to minimize chances of injury and to increase professional results regarding your chainsaw and its use.

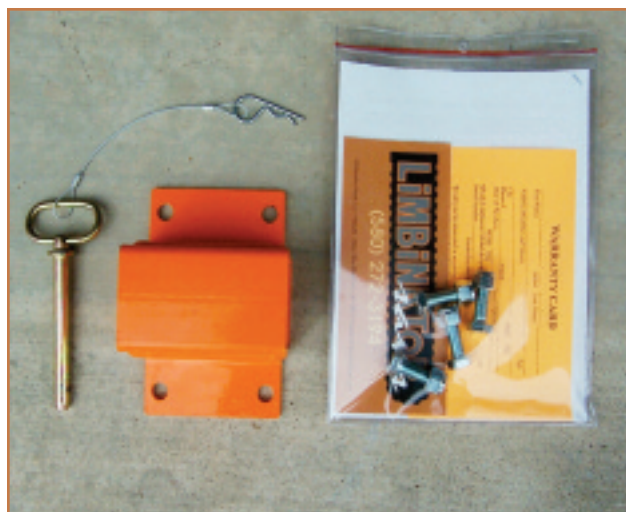
*If you do not understand any part of the instructions and precautions in this manual or the Installation DVD, please contact your local LIMBINATOR dealer or representative, CONTACT US thru the [Limbinatorsaws.com](http://Limbinatorsaws.com) website, or call 1-580-272-3194 before beginning installation or operation.*

Your shipped container should include:

- a saw with an attached bar and chain
- a receiver pinned to the end of the 8' mast
- a packet

The packet contains:

- 4 nuts and bolts, for attaching the receiver to your loader
- a brochure
- a warranty registration card
- a Installation/Safety manual that you should **read completely** before you begin installation and operation



## INSTALLING THE RECEIVER

Install the receiver to the back of your loader, at the top, on the right side.

Positioning it at the top of the bucket, as shown in this picture, will afford you an extra two feet of reach when operating your saw. When installing the receiver with the bolts, use a 1/2 inch drill bit.



## MOUNTING THE SAW

Before mounting the Limbinator Saw into the receiver, **rotate your bucket so the receiver is positioned as shown.** Your saw weighs about 84lbs, making it easy to mount, remove when you're finished and store in your shop. Using protective gloves, lift the saw and insert the end into the receiver until it hits the stop. Pin and clip, to secure.



Every tractor has its hydraulic hookups in a different location. For this reason, your Limbinator Saw does not include the hydraulic lines that attach to the tractor. **You will need to purchase these lines with a minimum of 3/8" hydraulic hose.** Measure from the auxiliary hookups of your tractor to the hydraulic hookups on your saw. Allow enough slack in your lines for the full rotation of your bucket. This skidloader has 6.5' of hydraulic line.



The saw is now shown in the transport position. When driving to and from your work site, always keep the saw folded and pinned to protect it from the wear and tear that bouncing can cause. **Always be aware of power lines and other hazards that may be hanging in your path.**







## OPERATING POSITION

To unfold saw into operating position, remove pin that holds saw arm closed against mast. Make sure that your loader bucket is rotated up enough that saw arm can open and come forward without hitting the ground.

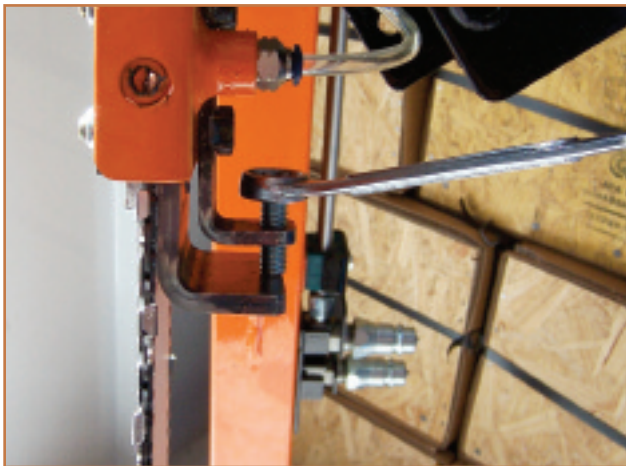
Lift saw arm and pin nylon strap into center hole with pin you just removed from holding the mast in the folded position. **The center hole is used for most of the cuts.** If you are cutting branches close to the ground and need the saw arm and mast to be straighter use the hole closest to the loader. If you are making cuts that require more angle between the mast and saw arm, use the hole closest to the saw blade.





## CHAIN TENSION

Using a 9/16" wrench, loosen 2 nuts holding the black chain guard cover with yellow warning sticker.

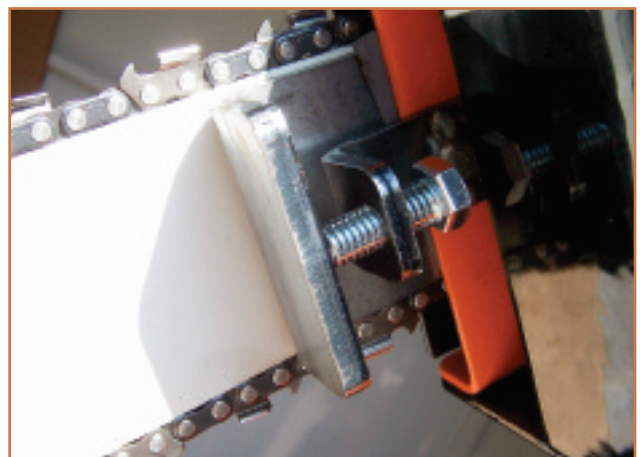


Using a 9/16" wrench, tighten chain screw bolt "in" to tighten chain. To loosen chain, unscrew bolt "out." Chain tension should be the same as any hand held chainsaw. Do not over tighten. Over tightening will cause chain to stretch, cause additional wear and tear on the sprocket and additional strain on the motor. Re-tighten guard cover when adjustment is complete.

Correct chain tension.



Correct installation and setting of chain tensioner.



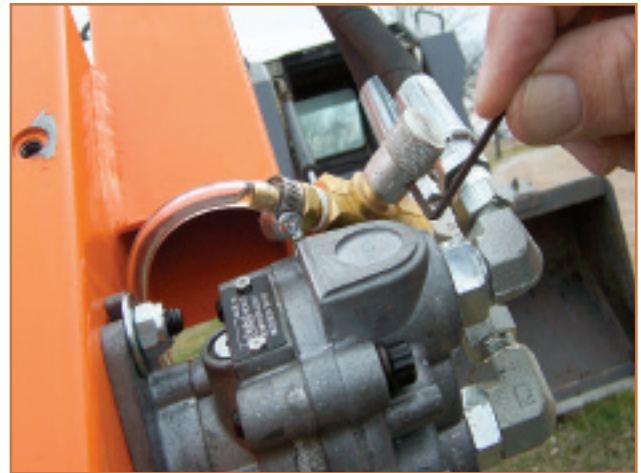




## ADJUSTING THE AUTOMATIC OILER

Remove 4 bolts from motor housing cover with a 1/2" wrench to expose motor and oiler.

Every hydraulic system works with a different pressure. You must set the oiler to accommodate the pressure in your tractor's hydraulic system. Loosen the set screw on the oiler valve with an Allen wrench.



Position a piece of paper or cardboard on the ground and lower chainsaw blade above paper as shown in this picture. From tractor seat, spin chain for about 10 seconds. Look to see if there is any oil splatter on the paper. If there is no splatter move the dial in small increments counter clockwise to open the valve. Spin your chain again.



Repeat this process until there is a fine spray of oil on the paper. If you have more splatter than shown in the picture at left, turn the dial clockwise in small increments to close the valve. When you have achieved the correct flow, tighten the set screw and replace the motor housing cover.



## USING YOUR LIMBINATOR SAW

When driving your tractor or loader across pastures and uneven terrain, please pin your saw closed into the transport position. **Driving with the saw open in the operating position may damage pins and the yellow nylon strap.** Use caution when driving under power lines and low hanging branches. Adjust the height of your saw by raising and lowering your loader to clear obstacles that could potentially get caught on your saw during transport.



When beginning a cut, position the saw on a branch and lower your loader **until you see slack in the yellow strap**. This means that the required weight of the saw is resting on the limb to make a clean cut. **Do not lower your loader to assist in making the cut.** The weight of the saw is all that is required to make each

cut. On large limbs, it may be necessary to lower your loader to complete a cut. If this is the circumstance, always stop the saw first. Lower your loader until you see slack in the yellow strap once again and then resume cutting.

When cutting large or heavy limbs, make several cuts to remove weight from the limb before making the final cut at the base. This will prevent the bark from peeling and also decrease the chance of the limb rolling and pinching the saw. As you gain experience with your saw, you will become more perceptive at judging how many cuts it will take to remove the amount of weight needed for a clean, easy final cut. When in doubt, make an extra cut.





## REPLACEMENT PARTS



All of the components on your Limbinator Saw are replaceable. Should you need a part, please don't hesitate to call us.

You can contact us through our website at  
[www.LimbinatorSaws.com](http://www.LimbinatorSaws.com)  
or by phone at (580) 272-3194.

Enjoy your saw and remember we are interested in posting customer testimonials on our website.



# Safety Instructions

## YOUR TRACTOR, SKIDLOADER, BACKHOE (Vehicle)

It is important that you completely understand and follow all safety precautions listed in your tractor, skidloader, backhoe or other vehicle manual. Check with your Limbinator Saws dealer to be sure that the Limbinator Saw will be compatible with your vehicle. Your ability to drive and maneuver this vehicle and its front end loader in a safe, familiar, and professional manner is directly related to your safety and the professional results you will obtain with your saw.

Cuts are made by lowering the loader and/or rotating the bucket in a skilled manner. Uneducated driving of your vehicle and use of its loader may cause serious or fatal injury to the operator and bystanders, damage your Limbinator Saw beyond immediate, simple repairs, or damage your vehicle. **Placing too much down pressure on the branch while you are making a cut could result in damage to the saw. Remember, the mechanics and the weight of your saw are what make the cut.** Re-read and familiarize yourself with all of the safety and operation instructions in your vehicle manual before installing and operating the Limbinator Saw on your loader.

Read the entire Limbinator Installation and Safety Manual and review the Installation DVD that is on the LimbinatorSaws.com website before installing and operating your unit. Also re-read both your vehicle manual and your Limbinator Installation and Safety Manual at the beginning of each season to maintain your knowledge of this equipment. Periodically check the website of both your vehicle manufacturer and Limbinator Saw for recent updates, engineering changes, improvements on equipment, and new videos. Parts and their usage, and the operation of your equipment may change over time. Serious or fatal injury can occur without maintaining proper familiarity with all your equipment.

## THE OPERATOR

To minimize the chance of injury the operator of this cutting device must be physically capable, mentally aware and not under the influence of any mind influencing substance (drugs, alcohol, etc) that could alter operator's vision, dexterity or judgment. This includes the influence of fatigue. Operators that are tired or fatigued should immediately discontinue the use of this unit. Lack of concentration due to fatigue may cause loss of control of device leading to possible injury to operator and damage to equipment.

Do not operate your vehicle or saw if you are tired.

If you think you have any condition that might impair your physical or mental ability to operate this machine please check with your doctor before beginning use.

Extended use of any machinery may cause White finger Disease (Raynard's phenomenon) or Carpal Tunnel Syndrome. Although the Limbinator Saw is operated from the seat of your tractor and does not expose the operator to vibrations that other chainsaws have, this does not guarantee



and does not expose the operator to vibrations that other chainsaws have, this does not guarantee that you will not acquire White finger Disease or Carpal Tunnel Syndrome. Please monitor the use of hands and fingers and seek medical attention immediately if symptoms of this disease occurs.

## PROTECTIVE CLOTHING

Protective clothing should be worn at all times when using this unit to reduce the risk of injury.

Clothing must fit properly. Protect legs and arms from falling branches and brush by wearing pants and clothing made of sturdy, protective fabric. Always wear gloves when operating any equipment or power tools. Please follow all safety instructions that apply to your vehicle and loader pertaining to protective clothing while operating your unit. Protective footwear with non slip soles and steel toes are also recommended.

**Use an ASTM approved hard hat to avoid head injuries.** Although there is no noise from your LIMBINATOR SAW, only the rotation of the chain, it is recommended that the operator use protective ear plugs or ear muffs to protect their hearing. Always have your hearing checked regularly when operating mechanical equipment and machinery. When wearing hearing protection pay special attention to your ability to react to warning signals from alarms and shouting people.

Always wear protective, properly fitted goggles to protect eyes from falling and splintering limbs and debris. Goggles should have side and top protection complying with ANSI Z 87.1 (or your applicable national standard). It is also recommended to wear a protective face shield over your protective eye wear.

Always wear heavy, nonslip gloves when operating your unit.

## YOUR LIMBINATOR SAW

Because the LIMBINATOR SAW is a powerful, high-speed cutting chainsaw, special safety precautions must be maintained to reduce the risk of bodily injury. All safety precautions that are applied when operating any cutting or trimming device also apply to the operation of your LIMBINATOR SAW. Observe all applicable local, state, and federal safety regulations, standards, and ordinances.

Have your Limbinator dealer or representative demonstrate the proper installation and use before you attempt it yourself.

Do not allow anyone to use your Limbinator Saw without fully understanding all the safety and operation guidelines and instructions in this manual.

The use of this machine is potentially dangerous. This unit has a saw chain with many sharp cutting edges. If the chain makes contact with any part of your body, it will cut you, even if the unit is not in operation, even if your are wearing protective clothing.





Your Limbinator Saw should only be used for cutting tree branches. Using it for any other purposes may result in personal injury, damage to the unit, or damage your vehicle.

Individuals under the age of 18 should not be allowed to handle or operate this unit even under supervision. Children and pets should not be allowed within 50 feet of the area of operation.

To reduce the risk of accidental injury and damage to property, never park or leave your vehicle unattended (even for a few minutes) with the Limbinator Saw in a low position where unauthorized people can have contact with the saw blade. Always raise blade above contact level, turn off, and be sure to park away from unauthorized people to avoid contact and potential injury.

The warnings listed in this manual apply to the use of all cutting devices. Safe use of a LIMBINATOR Saw involves:

1. The operator
2. The vehicle/loader and its maintenance and operation
3. The correct installation of the Limbinator Saw
4. The correct maintenance of the Limbinator Saw
5. The correct application of the Limbinator Saw

**Never make any modifications to your Limbinator Saw.** Limbinator Saw, LLC provides all approved and authorized parts for your unit. Although some unauthorized parts may be usable on your unit, their use may be unsafe and dangerous to the operator, cause damage to your saw, or cause damage to your vehicle. If a part needs to be replaced, please contact your local Limbinator Saw representative for a list of approved parts and where they can be purchased. Using unauthorized parts can be potentially dangerous.

## TRANSPORTING YOUR LIMBINATOR SAW

Never drive your vehicle while the chain saw is in the open position or is spinning. Always disengage the hydraulics, and fold the saw into the transport position. Driving your vehicle with the chainsaw in the open position can result in bending the mast and pins. Always operate your Limbinator Saw from the safety of your vehicle seat. Always turn off your vehicle engine, fold and pin your Limbinator Saw into the transport position, before parking your vehicle for the day or transporting your vehicle.

## BEFORE USE

Never use your Limbinator Saw if it is damaged, not assembled correctly, not maintained properly, or not adjusted properly. For correct assembly of the chain and bar please follow the instructions in the Installation Manual. The chain, guidebar and rim sprocket must match each other in gauge and pitch.

Correct chain tension is vital for the safety and correct operation of your Limbinator Saw. Please follow the instructions for tensioning procedure in your Limbinator Installation Manual. Always make sure



the hexagonal nuts for the sprocket cover are tightened securely after tensioning the chain in order to secure the bar.

Never start the chain with the sprocket cover loose or off. Continually monitor the tension of the chain and the tightness of the nuts as you would any other chainsaw. If the chain becomes loose while in operation, shut off vehicle engine and then tighten the chain. Never make adjustments to any part of your Limbinator Saw while your vehicle engine is running. Never have anyone tighten or make adjustments to the saw while the operator is in the drivers seat.

## STARTING

Be sure the guidebar and chain are clear of all objects except the limb you are about to cut before engaging your saw. Never engage your saw when it is touching the ground. Never engage your saw while people are within 50ft of your Limbinator Saw. Never use your saw near power lines or electrical extension cords.

Never use your Limbinator Saw indoors.

## DURING OPERATION

Always be sure your vehicle is properly balanced and on secure level terrain when using your Limbinator Saw. Use extra caution when on wet ground, mud, or snow. When driving in tall grass and vegetation use extra caution and avoid stumps, rocks, holes and ditches. Use extreme caution when driving on slopes and uneven ground.

Limbing is the process of cutting branches from a tree. Do not make cuts with the nose of the bar. Be very careful not to contact other limbs or the body of the tree with the nose of the bar. Always cut with the chain spinning in a forward motion. Always make your cuts in a downward motion cutting from the top of the branch through the bottom. **If the saw becomes pinched or bound in the cut, do not try to drive the vehicle out of the bind.** Simply reverse the hydraulic control of the saw and slowly lift the loader up to raise the saw out of the cut. Resume cutting from the top of the cut. **To minimize pinching and tearing bark from tree on larger, heavier branches, cut the limb in sections several feet at a time.**

Do not attempt to cut anything but tree branches with your saw.

Check chain tension at regular intervals during operation. If chain becomes loose while cutting, turn off vehicle engine before approaching and tightening chain.

Good judgment is recommended whenever you use your equipment. Avoid working in strong winds and any type of bad weather (rain, ice, snow). Never use your Limbinator Saw at night or in a dark area. Use only with good visibility.



Always turn off your vehicle engine before removing unit from bucket.

Although it is recommended that other people are not in the vicinity during the operation of your Limbinator Saw, always be sure there is someone available in case of an emergency. Always stay within cell phone reception or calling distance. Always stop engine when someone approaches you during the operation of your unit.

## MAINTENANCE AND REPAIR

Maintenance and repair of any part of your Limbinator Saw, other than the motor, may be done by any owner/operator with basic mechanical skills. Motor warranty coverage may be denied if your Limbinator Saw has not been properly serviced or maintained or non approved replacement parts are used during repairs.

Use only identical replacement parts for maintenance and repairs. Use of inappropriate or non-approved parts may cause serious or fatal injury and may damage your vehicle or unit. Strictly follow instructions for maintenance and repairs in the Installation Manual that was provided with your unit at time of purchase.

Always make sure the chain has stopped spinning before doing any maintenance or repairs.

Always wear gloves when handling or performing maintenance on your Limbinator Saw.

Always keep the chain, bar and sprocket clean. Replace worn out parts as needed. Always operate with a sharp chain. **When burn marks appear on the wood that you are cutting, or soft, easy to cut wood is hard to cut, it's time to replace or sharpen your chain.** Cutting with a dull chain will increase the time it takes to cut and will cause vibration of your unit and excessive wear on your unit. Loose hardware on your unit will also cause vibration. Follow manufacturer's maintenance and sharpening instructions for the chain. Always keep chain at proper tension. Tighten all nuts, bolts and screws after each use and check all nuts, bolts and screws before each use.





# Registration/Warranty Card

First Name Initial Last Name

Address (Number and Street) Apt.

City State Zip

Phone # Email

Date of Purchase \_\_\_\_/\_\_\_\_/\_\_\_\_ Place of Purchase \_\_\_\_  
Month Day Year

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

Located on the bottom of the mast

Would you be interested in receiving information on special offers, discounts and new products from Limbinator Saws, LLC? Yes \_\_\_\_\_ No \_\_\_\_\_

**You can also register your Limbinator Saw online at [www.LimbinatorSaws.com](http://www.LimbinatorSaws.com)**  
**Thank you for registering with Limbinator Saws.**

fold along dotted line and seal

Return address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Place first class  
stamp here.  
Post Office will  
not deliver  
without proper  
postage

**Limbinator Saws, LLC**

Limbinator Saws Registration  
46235 East County Road 1510  
Stratford, Oklahoma 74872