

HUD-SON



FOREST EQUIPMENT

8201 STATE ROUTE 12 • BARNEVELD NY • 13304



OSCAR 18 AND 228 Hud-Son Portable Sawmill

OWNERS MANUAL

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W W W . H U D - S O N . C O M

Introduction

Purchaser Agreement

By accepting the delivery by Hud-Son Forest, you promise that you will not change, modify, remove or make guards, shields, or any other safety feature, unusable or unsafe. You are responsible to install any retro fit kits, from time to time, provided to you by Hud-Son that will enhance or preserve the safe use of the product. If you have any questions concerning the equipment you purchased from Hud-Son Forest Equipment, about its safe use and/or maintenance, please go to our website www.hud-son.com or contact your authorized Hud-Son Forest Equipment dealer.

Safety Guidelines

The reason for the Safety section is to inform the operators and maintenance personnel, the precautions that should be taken while operating or servicing the Hud-Son Mills. These are a few basic safety guidelines to follow, always use good judgment and have a safe attitude.

Please read and follow ALL the instructions in this manual before operating the Hud-Son Mill safely at all times. These instructions were produced for your benefit. Your ability to understand and follow the instructions is essential for the safe operation of this product. Always call your servicing dealer if you are in doubt before operation of any kind.

Please fill out the information for quick reference:

Dealer: _____	Phone Number: _____
Address: _____	
Purchase Date: _____	Model: _____
Serial Number: _____	

This manual is filled with the latest information and specifications at the time of publication. We have the right to make changes as they are needed. Any of the changes in our product may cause a variation between the illustrations and explanations in the manual and the item that you have purchased.

DISPUTES

All disputes, claims and causes of action arising out of the delivery, use, or warranty claims for personal injury and or property damage must:

1. Claimant must provide a written notice of the claim or dispute to the company (at the address below) at least 30 days after the claim arose prior to commencement of any action;
2. Company has 60 days to make a decision on the claim and will provide a written response to claimant;
3. No action may be commenced until after the company has provided its decision on the claim;
4. All claims against the company for any cause related to delivery, design defects, repairs, use of the equipment or warranty shall be filed in Supreme Court, Oneida County, State of New York. The parties may file for Arbitration in Oneida County New York after consent by both parties.
5. Construction and interpretation of this agreement and any and all claims shall be subject to the Laws of the State of New York.
6. The address for submission of claims is: Hud-Son Forest Equipment- PO Box 345 - 8201 State Route 12 - Barneveld, NY 13304
7. Notices under this agreement must be in writing and sent by certified or registered mail.

General Safety Procedures:

- 1) Always wear safety glasses, ear protection and gloves while operating or servicing the machine.



- 2) Keep all body parts and foreign objects away from all moving parts. Do not reach into the machine while it is still operating. (Be Sure The Machine Is **OFF**.)
- 3) Do not attempt to override any safety features on the machine.
- 4) Inspect the machine before every use for wear, damage and correct function. If the machine has been damaged or is not running correctly, **DO NOT** attempt to operate the machine. Repair or replace all parts when necessary.
- 5) Do not wear loose clothing or jewelry while operating or servicing the machine.
- 6) All replacement parts should be of the same specifications and operation as the original parts of the machine.
- 7) **All guards and covers must be in place before operating the machine.**
- 8) Before starting the machine, be sure that it is set up properly.
- 9) **DO NOT** operate or service any machinery while under the influence of drugs or alcohol, while tired or if you are unable to control your movements.
- 10) All worn or damaged decals should be replaced.
- 11) Any modifications to the product require written approval from Hud-Son Forest Equipment.
- 12) The processor should only be used when it is on level, stable ground.

Electric Engine Safety Procedures:

Lockout/Tagout is the practice and procedure to safeguard the employees from unexpected energy, start-up of machinery/equipment or the release of hazardous energy during servicing or maintenance procedures.

A designated individual will be required to turn off and disconnect the machinery/equipment from the energy source before any procedures are performed. The authorized employee will need to lockout/tagout the machine/equipment energy device that will prevent the release of hazardous energy. You will need to take action to verify that the energy had been isolated effectively.

*WARNING: ONLY AUTHORIZED PERSONNEL ARE TO PERFORM
PROCEDURES LISTED BELOW*

1. Inform any affected personnel of lock out/tag out equipment
2. Turn main electrical breaker into off position
3. Insert proper lock out device in main shut off and apply lock.
4. Keys are to be kept in your control until repair or maintenance is complete
5. Test to be certain that the equipment is off and has no stored energy
6. Perform repair or maintenance tasks.
7. Check control panel switches to be sure they are in the off position
8. Remove any tools or other objects used in repair or maintenance from equipment
9. Clear any other personnel from area
10. Remove lock out device
11. Turn main shut off to the on position
12. Test equipment functions
13. Inform affected personnel that servicing and maintenance is complete
14. Return lock out device and keys to storage box

Example of Lockout/Tagout Safety kit

(This is Not provided by Hud-Son Forest Equipment, you will need to purchase this type of system)



Term Description

Affected Employee	Customer who is required to operate the equipment/machine on which service or maintenance is being performed.
Authorized Employee	Person who performs the tagout system procedures on equipment/machines to perform the service/maintenance on that equipment/machine.
Energy Source	Any source of electrical, mechanical, hydraulic, pneumatic, chemical, thermal or other energy source.
Lockout	Placement of lockout device on any energy isolating source to ensure the device cannot be turned on or operated. Procedure stops must be followed.
Servicing/Maintenance	This can include the set-up, adjusting, inspecting, modifying or servicing the equipment/machines. It may also be the lubrication, cleaning or fixing the unit. This should include anything where the customer may be exposed to the unexpected energy, start-up of equipment.
Tagout	Placement of a tagout device on an energy-isolating device to ensure the equipment/machine may not be operated until the tag device is removed.

The safety rules are made for the benefit of the persons operating and servicing the machine, to prevent injury to oneself or others. Please review all setup and operating procedures before attempting to run the machine, whether covered in this manual or not, to ensure the safest operation of this product.

Hud-Son Forest Equipment is not liable for damage to property or personal injury due to unsafe use of the product. Hud-Son Forest Equipment is not liable for damage to property or personal injury due to the failure of any person and/or operator to follow the instructions and recommendations set forth in this manual or any other instructions or recommendations contained in other literature issued by other vendor manuals in the owner's kit.

Product Safety Decals

The decals on the following page are used on the Hud-Son Saw Mills to identify warnings and prohibited actions. It is very important that you understand the meaning of the decals, for your safety and the safety of others. Decals are to be replaced if worn or illegible.

CAUTION BEFORE, DURING AND AFTER OPERATION



Check the engine compartment for sawdust and wood trash build up in and around the engine compartment and the exhaust area to prevent any possible fires from starting due to excessive build up. Always clean the sawdust out from under the machine after shut down and be sure there is no sawdust build up near or around the muffler area.

CAUTION - Be EXTRA careful around these areas, unsafe practices may cause personnel injury or damage.

DANGER - Be careful around any rotating parts, they may cause personnel injury or damage.

DANGER - Be sure to be very cautious and alert, these areas may cause personnel injury or damage.

CAUTION - Operating equipment without guards may cause personnel injury or damage.

BLADE LUBE TANK - be sure to use the correct lubrication, if incorrect lube is used it may cause personnel injury or damage.

NOTICE - Please remember to send in warranty card and information.

CAUTION - All debris needs to be removed from machine before transporting, failure to do so may cause personnel injury or damage.

CAUTION FIRE HAZARD - Keep all sawdust away from motor.



Set-Up and Operation

Any Hud-Son Saw Mill requires a minimal amount of set-up before operation.

Be sure to wear safety glasses, gloves and ear protection at all times while operating any piece of Hud-Son equipment.

Receiving and Unit Inspection

1) Upon receiving your unit do a walk around and visual inspection of the unit. Make note of any damage and contact us immediately with any issue you may have.

Note: All equipment is assembled, tested and inspected before shipping. Damage can occur during transit, which could cause the unit to not operate correctly.

Unpacking Unit

- 1) Flat bed trailer delivery: remove straps or chains securing the unit.
- 2) Remove lag screws and strapping that secures the machine to the skid.

Moving the Unit

(Forklift is needed for track units)

- 1) Machine needs to be lifted at the lift point, see picture for points.
 - a. Use a safety devise for lifting to avoid any damage/injury.
- 2) Move unit to operator's site, lower unit and remove unit from forks.



Before operating the Hud-Son Saw Mill the following procedures need to be performed:

- 1) Check oil and fuel levels
- 2) Check blade lubrication and hydraulic levels (if applicable)

2-A - Check blade lubrication and hydraulic levels.

DO NOT USE: petroleum products, petroleum based products, flammable products, a vegetable oil based product. The above products mixed with water or straight will cause damage to your mill. The fluid will be slippery between the blade and wheel belting causing blade to come off.

DO USE: In The Summer Months tap water. If there is a problem with pitch build up on the blade, add 1 oz. of dish soap or pinesol to 1 gallon of tap water. This will help keep the blade clean and less heat.

In the Winter Months water will freeze in the lube tank. Use regular windshield washer fluid

(usually blue in color) If there is a pitch build up problem add the 1 oz. of dish soap or pinesol. Adjustment:

Before starting the engine, adjust the flow of lube to the blade by adjusting the flow shut off valve so there is a constant drip. If more lube is necessary, continue to adjust the valve until the desired flow is acquired.

- 3) Be sure the blade is sharp and tight
- 4) Be sure all levers and switches are in the neutral/center position before starting the engine (if applicable)
- 5) Be sure all persons are clear of the equipment
- 6) Make sure the unit is level and stable

Start Engine Procedure

- 1) Summer Use: Be sure to let the unit idle for at least 5 minutes before any use.
- 2) Winter Use: Be sure to let the unit idle for at least 15 minutes before any use.
- 3) If the unit has been sitting for a period of time, allow the unit to run long enough to have the oil do a complete circulation before use.

Steps for Setting-Up the Hud-Son Saw Mill

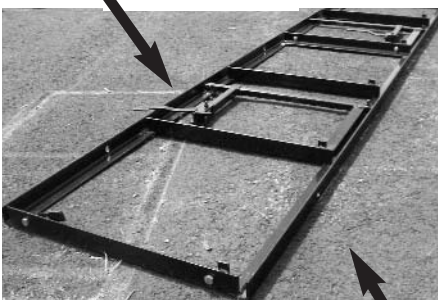
A. Machine Set-Up (ground track unit)

- a. For best results and easier set-up, the mill location should be level and free of obstructions.
- b. A level cement pad is the best option, but square timbers also work well. You will need to support the track at each joint and under each cross member.
- c. You will need to be sure that the mill is level from front to back and side to side. The better the mill is supported the better the mill work.
- d. There should be a 4 ft. clear work area around the entire mill.

B. Track Assembly

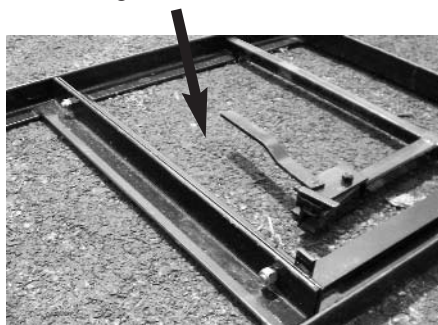
- a. Dogs needs to facing in the same direction, the moveable dogs need to be on the same side of the track which is on the operator's side of the mill head.
- b. There are additional holes in the track so that the dogs can be moved to different positions.
- c. The tracks are bolted together using bolt and nuts. The Oscar 18 and 228 mills will have 2 bolt/nuts: the Oscar 230/236 and 52 mills will have 3 bolts/nuts. Line up the tracks so that the center holes align. Using the provided bolts put them through the holes and finger tighten the nuts. Adjust the track height so that the 2 pieces of track meet flush and level. Work one side then the other, once level has been achieved, check the track to see if it aligns vertically. If the track is not aligned correctly use a hammer to tap it into position. Once this is accomplished tighten the bolts securely.

Moveable Dogs -
On one side



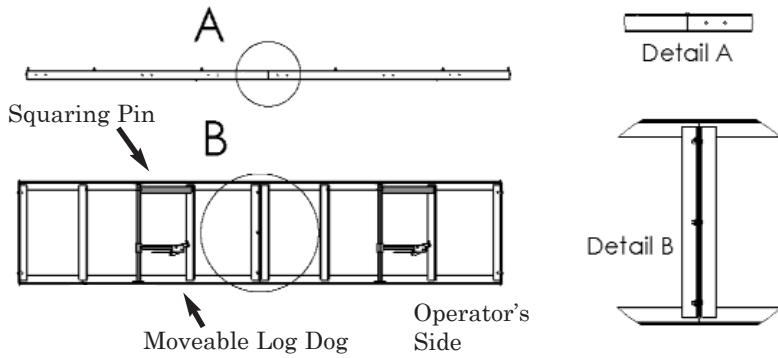
Track on level ground,
free of obstructions

Bolted together Track - Flush & Level



Track Stops

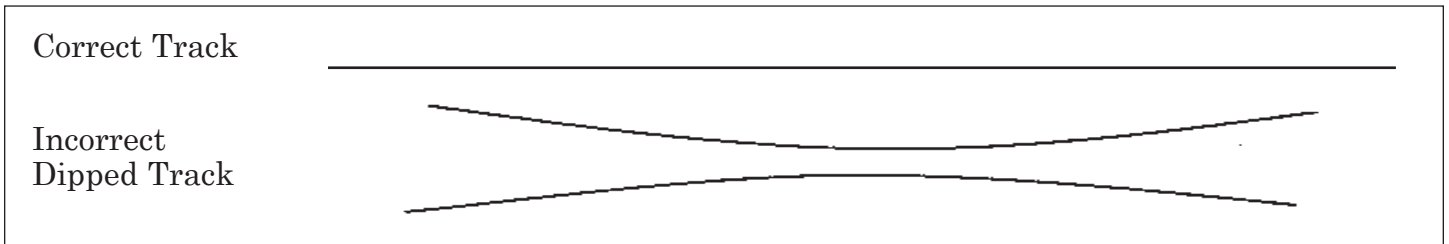
Set-Up and Operation



Correct Track Set-up

d. The track comes with 4 track stop assemblies. The assemblies consist of the track stop, bolt and nut. Place the tracks stops in the 4 end corners of the track. Place them on the inside of the track and use the nut and bolt to secure them into place. They are placed at an angle over the track, thus blocking any further travel of the mill head.

- e. Sawing a board accurately, the track needs to be straight or flat. To obtain this, use a string tied from end to end or a level. If the track/trailer has a crown or dip, you will not be able to saw a straight board.



C. Machine Set-Up (trailer unit)

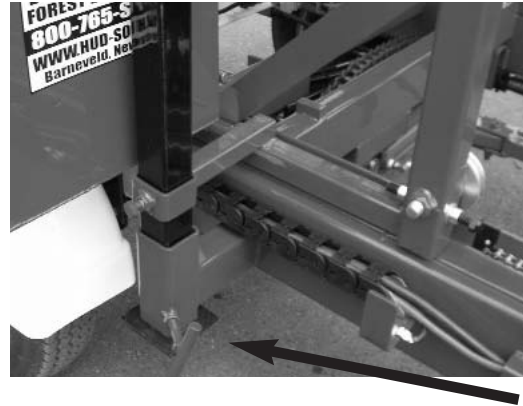
(20' or 24' Torsion Axle Trailers, (230, 236, 56, Farm Boss, H360, H2HG))

- Set-up area should be relatively level and clear of debris. The head will need to roll down the track so be sure the area is free of obstructions.
- Lower the trailer jack and raise the jack until the coupler is free of the hitch. Once this is done remove the unit from the vehicle. Using the "T" handles, loosen the bolts and lower the front 2 legs.
- Do the same to lower back 2 legs, and level the trailer.
- Lower the center 2 legs last, the track should already be level.
- On the 18/228 models, you will need to unbolt the head from the track. The travel bolts are located behind your guide arms at the base of the mill head.
- Once the head is unbolted from travel position, roll it down the track to be sure it is level. If your head rolls on its own you will need to adjust your leveling legs. Return the head to the center of the trailer and re-bolt or raise the center legs to lock head into place. Once the head is secure you can reset the leveling legs.

*****Always secure the head before re-leveling the trailer******
- Once the trailer is level, the head should not roll on its own. If your trailer is not level, it will not saw your boards correctly. Refer to previous instructions for proper set-up.



Correct trailer set up - All legs are level; head should not move on its own.



Legs are locked into place, head will not move.

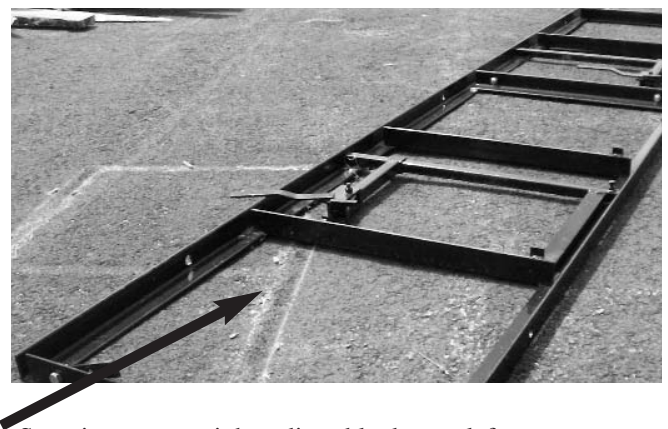
D. Setting Head on Track (If Applicable) Ground Models

Once your track is level, you are ready to set the head on the track. Once again, be sure the area is still free and clear of obstructions. You will want the head to roll freely down the track.

- a. Install the head with operator's side on the same side as the moveable dog. The discharge side is the side with the squaring pins.
- b. Raise the head 3 inches and roll from one end to the other. The head should roll smoothly along the track. If the head "thumps" when it passes over the track joint, check to make sure the tracks are level. Re-level the track and try rolling the head again. Also be sure to watch the track as you roll the head, if the track moves, you will need to support the track in that area.



Correct head placement; Operators side is on side with the scale stick.



Squaring arm on right, adjustable dog on left.

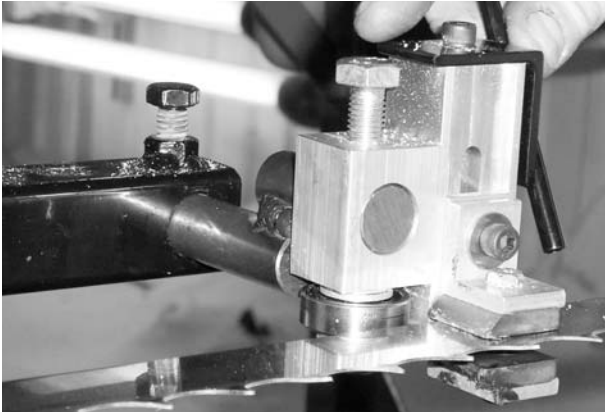
ALWAYS WEAR GLOVES AND EYE PROTECTION WHEN OPERATING SAWMILL

d) Set the guide bracket so that the back bearing is on the same plane as the blade, so that if the blade were to wander back it would hit the back bearing evenly across the middle of the roller. If the bearing needs to be adjusted up or down, loosen the bolt that holds it to the guide bracket and space it in either direction using the washers that are on either side of the bearing.

e) Once the bearing is set, position the guide bracket so that the bearing is spaced 1/8" behind the back of the blade. Once the bearing is in position, tighten the bolt on the top of the guide bracket into place. Be sure guide is 90° to the blade.

f) The guide shoes are to be set using a sheet of paper to gauge the spacing. Place the paper between the shoe and the blade, slide the shoe so that it is pinching the paper, and tighten the bolt so that the shoe is set in place. Do the same on the bottom of the blade. Note that you do not want the shoes to be pinching the blade so hard that they are prohibiting blade travel.

g) Make sure that all nuts and bolts are tightened firmly.



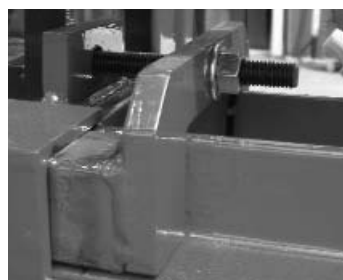
Pictured is a close-up of the guide
It shows all the bolts and bearings that can
possibly be adjusted. Note how the teeth are
outside of the guide.

Set-Up and Operation

E. Tensioning the Blade on all Models

NEVER tension your blade with the engine running. Your mill is shipped to you without any tension on the blade. If there is tension left on the blade for a period of time, it can cause flat spots in the belt. This will cause the blade to fall off the wheel. Always remember to de-tension your blade when you are done sawing for the day.

- a. To tension the blade, remove the guards and loosen/tighten the nut on the tensioning bolt.
- b. Turn the adjusting bolt or stud, clockwise until 30-35 pounds of torque is achieved. The recommended tool for this is a torque wrench. By hand, rotate blade 3-4 full revolutions; this centers the blade on the wheels.
- c. With gloves on, pull up on the blade at the center guard. Allow for no more than a ¼" movement up or down on the blade.
- d. Blade guides must not be so tight they cause the blade to move up or down.
- e. Perform a simple test call the "Flutter" test. Put the guards on and then run the engine at full RPM's (be sure the blade is not in a cut during this test) and watch the blade under the blade guard. The blade must run straight, if it does not, shut the engine down and apply more tension. Keep in mind that over tensioning will also cause the blade to flutter. You should have attained proper tension around 30-35 pounds.
- f. A tensioned blade should come off the bottom of the band wheel and run straight across to the other band wheel, so there is NO sag in the blade between the two wheels.



Tension nut for
smaller units (O18/228)

F. *Setting Logs*

Once the track is set, the head is in place and the blade is tensioned correctly, you are almost ready to cut.

- a. Place the log determined by the mills size, on the center of the track. Using the log dogs secure the log to the track. Be sure to dog the log high enough (1/2" way up the log) to ensure the log does not move. If the log is too big for the log dog to hold in place, but your sawmill head still rolls unobstructed use the "Cheater" to hold it. (For use on the 18/228 only).

Cheater



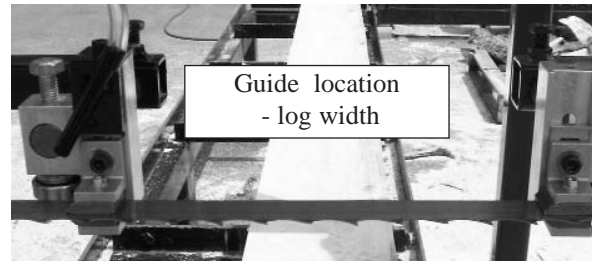
Squaring Arm
Adjustable Dog

G. *Getting Ready to Cut*

Now is the time to debark or clean your log. This can be achieved by the simple chainsaw attachment, called a Log Debarker (available through Hud-Son Forest Equipment Inc.) or you can pressure wash or use whatever method available to remove any mud or bark from the logs. By debarking and cleaning your log it will extend the life of your blade.

- a. Adjust the Hud-Son guides so that they are slightly (no more than 2 inches) wider than the maximum width of the log.

Debark the
log.



(Note: as you cut slabs, boards or squares you may need to adjust the guide to ensure the best performance and quality cuts)

- b. Find the top of the log with the blade. Remember, that you may have cheaters in place so be sure these are clear when making the first cut. You will be removing the top portion of the log. (top slab)
- c. On the manual lift models, crank your head down to the desired height and click up one notch to set the head. Make sure your blade will clear your dog assembly.
- d. Start your engine, let it idle for at least 5 minutes. (Refer to the engine manual for proper engine maintenance)
- e. With the engine in idle position, increase the throttle to start the blade. Sawing should always be done with the engine in full throttle.
- f. Gently push the saw head through the log, pushing on the head frame. If the engine starts to labor, you are going to fast, slow down. Go slow through burls and knots as the engine may bog down through these parts of a log.

- g. When you are at the end of the log, power down the engine, crank the head up so that will clear the log and roll back to the front of the log. For ease of operation, put the slabs on the operator's side of the mill, this way you will not have to dig through sawdust for your lumber.
- h. You now have a flat surface on top of your log, remove the cheaters (if applicable), you will no longer need them, as long as the log dogs will hold the log in place.
- i. Set your log dog assembly so that they are standing in the track. Turn the cut side of the log, using a cant hook, $\frac{1}{4}$ of a turn. The flat side must be flush against the squaring pin to assure a square cant.
- j. Adjust the log dog at an angle to the track so that the blade can pass over the top, but so that the dogs are effective in securing the log.
- k. Once again, increase the engine throttle to start the blade, and saw another slab. You will repeat step (I) until your log is squared into a cant. You may now saw your dimensional lumber.
- l. Steps (I-K) may not be applicable if a cant is not desired.



Place flat side, flush against squaring pin to ensure a square cant.



Adjustable dog, set at an angle so that log can be sawed without interference.

H. Cutting Dimensional Lumber

You can cut down to a 1" thick bottom board. To achieve this you will use the moveable side of the dog and the short squaring pins welded in the track.

- a. You will need to determine the size lumber that can be cut and how many, then using the scale start sawing your lumber. Lower the blade to desired thickness and saw your board. Repeat this process until all lumber is cut.
- b. You may need to turn your cant to make the desired lumber.

I. Replacing the Blade

No matter how well you care for your blade, they will dull after time and need to be changed. Longevity of your blade depends on how well you maintain it.

- a. The engine needs to be stopped, turned off and the key removed, this ensures that the engine can not be accidentally turned back on. On engines with manual start, you will need to remove the spark plug wire prior to servicing. On electric motors a lockout/tagout should be used.
- b. Loosen and remove wing nuts so you can remove the outside and center guards on all models.
- c. Loosen band blade tensioner bolt until adjusting bolt is flush with threaded plate.

- d. With a gloved hand, put hand on the top of the band blade and push down. (Use extreme CAUTION, dull blades are still sharp and may be hot).
- e. Remove band blade from both band wheels and take out of carriage.
- f. Inspect new or sharpened blade, be sure blade teeth are facing in correct direction. Teeth should always point away from the operator. (Towards discharge chute). Be sure to wipe blade clean of all oily substance prior to installing. A clean, dry rag or cloth works best.
- g. Starting from your stationary wheel set the blade on the wheel then thread through your guides. Work the blade over the tensioning wheel until the blade is set.
- h. Lightly tension the blade to remove the slack, and then turn the wheel in the direction of travel (towards the operator) 3-4 rotations to be sure the blade is tracking properly on the wheel.
- i. Once the new blade is tracking properly, replace the guards and re-tension the blade as previously stated.

J. *End of Processing Lumber*

- a. Completely decrease engine throttle and turn engine switch, red one, to off position.
- b. The blade will continue to turn automatically and will coast to a stop.
- c. If you are done sawing for the day, de-tension the blade, so that you do not have flat spots. Lower the mill head so that the lift cable has slack.

K. *Blade Maintenance*

Longevity of band blades depends on how well they are cared for. Using a lube tank, Log Debarker, band blade sharpener, tooth setter, all will help keep your blade in top condition. Be sure to clean your logs by using a pressure washer or debarker to keep them free of mud and debris.

L. *Blade suggestions*

- a. Never force a dull blade, this will result in overheating of the blade and result in wavy lumber.
- b. Overuse of a blade jeopardizes the ability of the saw blade to be re-sharpened.
- c. A new blade may stretch after cutting and may have to be re-tensioned to assure quality lumber.
- d. De-tension the band blade after each day of cutting.
- e. Never operate the mill without the guards in place.

The Hud-Son Forest Equipment, Inc sawmill comes with a Wood-Mizer DoubleHard band blade. Wood-Mizer has an excellent re-sharpening program for your band blade.

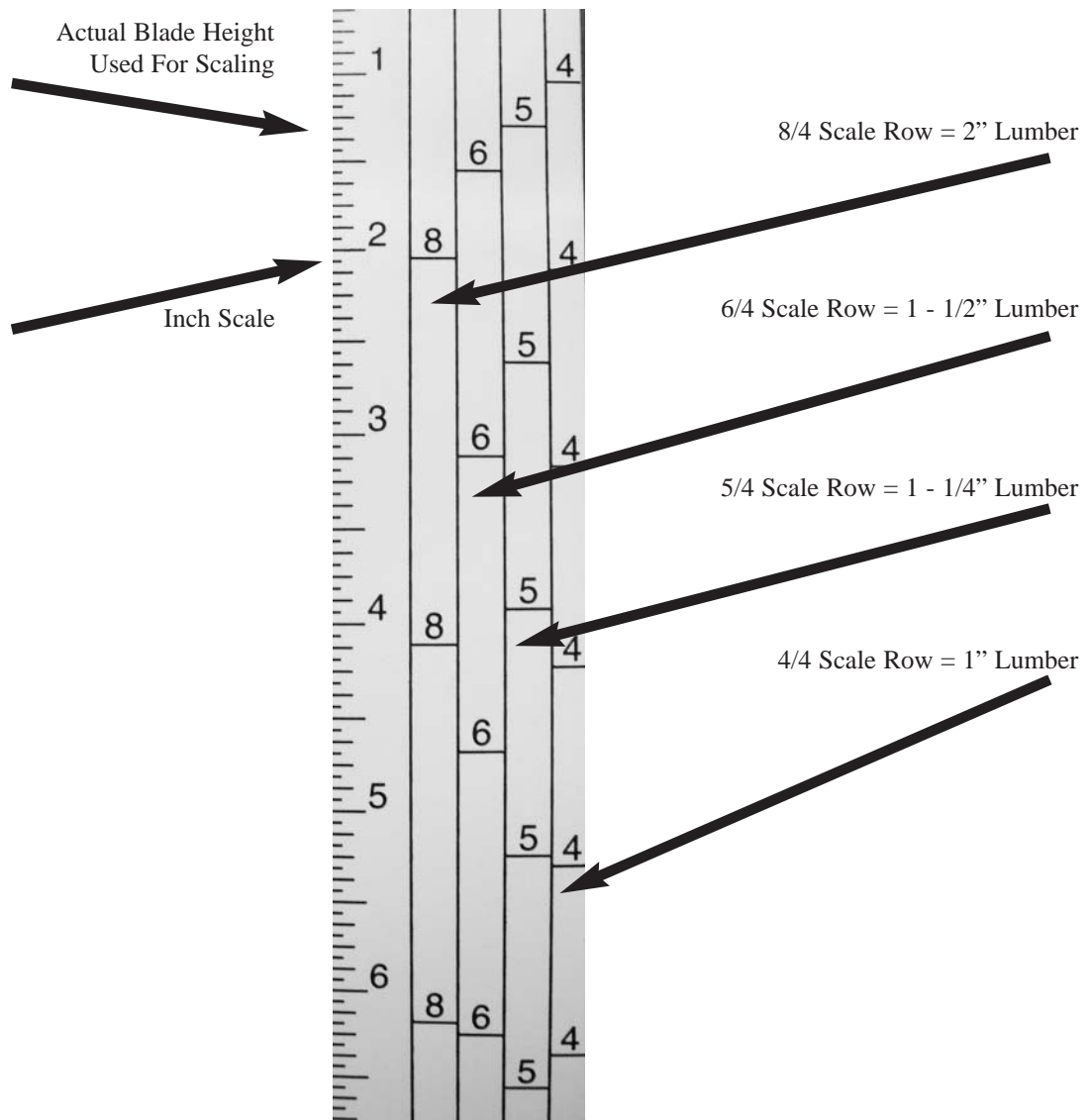
M. *Adjusting Sawmill Guides*

- a. Purpose of the Guides
 - i. Superior Hud-Son guide design. Supports on the top, bottom and back of the blade, where can the blade go? This guide design limits the chance of blade wander.
 - ii. The lower blade holds the blade up and decreases the chance of "diving". Most companies only use a top support.
 - iii. The closer to the log the guides are to the log the better support the blade has as it cuts.
- b. Adjusting the guides
 - i. Tools that will be needed:
 1. 17 mm wrench
 2. 17 mm socket
 3. 9/16" wrench
 4. 3/16" Allen wrench
 - ii. All guides are aligned and set at the factory, but occasionally they get moved out of adjustment in shipping or after a period of usage. It is important that they be checked often for proper alignment and adjusted correctly.
 - iii. To adjust your guides correctly you must first tension the blade properly as previously described. A tensioned blade should come off the bottom of the band wheel and run straight across to the other, so there is NO sag between the two wheels.
- c. Now that the blade is tight, slightly loosen the Allen head that holds the guide shoes, so that they slide up and down freely. Now loosen the bolt that fastens the aluminum guide bracket to the guide rod, so that the guide bracket can be moved in, out and it can be rotated in either direction.
- d. Set the guide bracket so that the back bearing is on the same plane as the blade, so that if the blade were to wander back it would hit the back bearing evenly across the middle of the roller. If the bearing needs to be adjusted up or down, loosen the bolt that holds it to the guide bracket and space it in either direction using the washers that are on either side of the bearings.
- e. Once the bearing is set, position the guide bracket so that the bearing is 1/8" behind the back of the blade. Once the bearing is in position, tighten the bolt on top of the guide bracket in to place. Be sure the guide is 90° to the blade.
- f. The guide shoes are to be set using a sheet of paper to gauge the spacing. Place the paper between the shoe and the blade, slide the shoe so that it is pitching the paper and tighten the bolt so that the shoe is set in place. Do the same on the bottom of the blade. Note that you do not want the shoe to be pinching the blade so hard that it is prohibiting blade travel.
- g. Make sure that all nuts and bolts are tightened firmly.

N. Using the Lumber Scale

- a. All Hud-Son sawmills are equipped with a Lumber Scale. The scale is used to make the dimensioning process simple. The scale incorporates 4 separate scales with the blade kerf factored in for each increment.

Scale	Resulting Thickness
4/4	1"
5/4	1 - 1/4"
6/4	1 - 1/2"
8/4	2"



Note:

The 1" standard ruler does NOT account for kerf. When using this scale be sure to plan on kerf. 1" increments will result in approximately a 7/8" end result, depending on what blade is being used.

Care and Maintenance

Hud-Son Saw Mills require a certain amount of care and maintenance, so that it may continue to perform at its best. If you are not confident in your ability to perform the maintenance that is required, please look into having a professional come in and perform the work for you.

Cleaning your Saw Mill

- ✓ Using an air hose, blow off all loose debris that builds around the unit.
- ✓ Use extreme caution when cleaning the mechanism.
- ✓ Never use flammable or combustible materials to clean the mill.
- ✓ Be in a well ventilated area. Always wear protective equipment to prevent injury.
- ✓ Use proper procedure to dispose of waste materials.
- ✓ Wipe down the idler and pulley wheels using an air hose, brush or rag.
- ✓ Clean and inspect blade guides.

Preventative Maintenance

- ✓ For electrical engine follow the correct Lockout/Tagout procedures as described.
- ✓ Check for correct blade tension guaranteeing that 30-35 pounds of torque is on tensioning bolt/nut.
- ✓ Check blade tracking, a 1 - 1/4" blade should be centered on band wheels.
- ✓ Check bearing, idler and pulley wheels for wear. Signs of wear are:
 - ✓ Excessive heat
 - ✓ Squeaking sounds
 - ✓ Looseness
- ✓ Grease idler, pulley wheels and bearings.
- ✓ Grease blade tensioner shaft.
- ✓ Grease the lift tubes.
- ✓ Check all belts for wear and to make sure the belt tension is "taut".
Belt should have no more than 1/2" deflection.

MAINTENANCE SCHEDULE CHART - Service Recommendations for Hud-Son Sawmills

<i>Service Item</i>	<i>Daily</i>	<i>40 Hours</i>	<i>See Manual</i>
Check Engine Oil Level	✓		
Check/Clean Engine Air Filter			✓
Check Hydraulic Oil Level (fill 1" from top) if applicable	✓		
Clean Unit of Bark, Saw Dust, and other Debris	✓		
Lubricate Grease Fittings and Oil Points (see Diagram for locations)		✓	
Check Tire Pressure - Upon transport (if applicable)		✓	
Check Cylinders and Seals for Leakage	✓		
Check Feed Chains for tension (if applicable)	✓		
Clean Battery Connections		✓	
Check Wiring and Connections for Corrosion and Decay		✓	
Lubricate Chains (if applicable)		✓	
Check Blade Sharpness	✓		
Fuel - fill as needed	✓		
Blade Lubricant - fill as needed -	✓		
Check hoses/gauges for damage, cracks, leakage (chaffing, dry rot, cracks, replace hoses if applicable)	✓		

** Change engine oil after 8 hours of operation on a new engine (break -in period)*









CAUTION!
Maintenance Procedures requiring special training or tools should be performed by a trained technician.

A routine inspection of the entire machine is encouraged. Check to see if all fittings are tight and secure. Make sure all nut are tightened. Check to see any damage that may need to be repaired before and further damage occurs. Routinely checking the equipment and proper maintenance will help in keeping the Hud-Son Saw Mill running to the best of its ability.

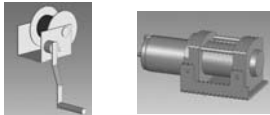






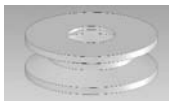



Parts and Warranty

Mill Replacement Parts


Out sourced components will be warranted by the respective company for a period equal to the warranty in place at the time of shipping, as shown below from date of purchase.

<i>Part Picture</i>	<i>Description</i>	<i>Part Number</i>	<i>Warranty</i>
	Gasoline Engine	6.5 HP, 8.0 HP, 16 HP, 18 HP, 21 HP, 23 HP, 31 HP	Up to 2 Years See Briggs & Stratton Manual
	Electric Engine	131549	1 Year - call Hud-Son and ask for warranty department.
	1.5" Pillow Block Bearing, 1" Pillow Block Bearing	UCP 208-24 UCP 205-16	6 Years
	Drive Belt	Oscar 18/228 - B77 , Oscar 230/236/FB/H2HG/H360 - B85, 52, B92	1 Year - Call your servicing Hud-Son Dealer.
	Rubber Wheel Belting	16" Wheel B49 , 19" Wheel - B56.5	1 Year Defect
	Urethane Wheel Belting	16" Wheel HF 49 , 19" Wheel - HF 56.5 25" Wheel - HF 77	1 Year Defect - Not Melted
	1 Year Defect	Sk 1 - 1/2	1 Year
	Drive Belt Tensioner (Idler Pulley)	Oscar 18/228 - Idler Pulley	1 Year
	Guide Assembly, Left/Right (see breakdown for parts list)	976-001	30 Days Call your servicing Hud-Son Dealer.
	Scale Sticker	24" Scale Sticker - Scale decal 36" & 48" Scale Sticker - Scale Decal 36 & 48	1 Year
	Site Glass Assembly	DH-1006	1 Year
	Cable Lift Kit Assembly	Oscar 18/228, Oscar 230/236, Oscar 52, Farm Boss/H2HG/H360	1 Year
	Band Blade	Oscar 18/228 - WM 132 , (132"x.035x1-1/4") Oscar 230 - WM 160 , (160"x.035x1-1/4") Oscar 236/FB/H2HG/H360 - WM 167 , (167"x.042x1-1/4") Farm Boss w/25" band wheels - WM 189 , (189"x.042x1-1/4") - Oscar 52 - WM 221 , (221"x.0542x1-1/2")	Breakage & Re-sharpening - Call Wood-Mizer, Inc. at 1-800-244-4600

Parts and Warranty

Part Picture	Description	Part Number	Warranty
	Winch	Oscar 18/228/230 DBL800A - (hand crank) Oscar 236/52/FB/H2HG/H360 - ATV2500 - (you will need your serial # for warranty)	1 Year - call your servicing Hud-Son Dealer.
	Winch Switch	C7755- 236/FB H2HG/H360 Oscar 52	1 Year - call your servicing Hud-Son Dealer.
	Winch Solenoid	C7700 - 236/FB H2HG/H360 Oscar 52	1 Year - call your servicing Hud-Son Dealer.
	Clutch	4075P007 - Oscar 18/228 Oscar 230/236/FB/H2HG/H360 - 160021 Oscar 52 180021 (double pulley)	30 Days- Call your servicing Hud-Son Dealer.
	Band Wheel	16" - 1B160DSK 19" - 1B184SK 25" - 1B250SK	1 Year - call your servicing Hud-Son Dealer.
	Log Dog Only	Log Dog (18/228)-976-027 Dog Only (230/236)-976-028	2 Years - call your servicing Hud-Son Dealer.
	Track Wheel w/Replacement Bearing	976-019 - Trolley	2 Years - call your servicing Hud-Son Dealer.
	Replacement Bearing for Track Wheel	6203-2RS	2 Years - call your servicing Hud-Son Dealer
	Pulley for Lift Cable	976-004 - Cable - Pulley	1 Year - call your servicing Hud-Son Dealer.
	Lift Cable	Cable	
	Cheater	O18-003 - Oscar 18 - Cheater O228 - 003 - Oscar 228 - Cheater	2 Years - call your servicing Hud-Son Dealer.
	Guide Pins	DH-1098 - Oscar 18/228 Oscar 230/236/FB/H2HG/H360 Oscar 52	2 Years - call your servicing Hud-Son Dealer.
	Low Handle Kit	Oscar 230/236 - DH 7009	2 Years - call your servicing Hud-Son Dealer.

Parts and Warranty

	Bolt for Track Wheel	976-026 - Trolley-Bolt	2 Years - call your servicing Hud-Son Dealer.
	Track Sections		1 Year - call your servicing Hud-Son Dealer.
	Axles (Trailer Models)		1 Year - call your servicing Hud-Son Dealer.
	Hydraulic Motors, Pumps, Valves, Hose & Fittings		1 Year - call your servicing Hud-Son Dealer.
	Sprockets & Chain		90 Days - Call Hud-Son and ask for the warranty department

Parts and Warranty

Warranty:

Warranty registration cards must be completed and returned to Hud-Son Forest Equipment, Inc. within 30 days of purchase. Failure to do will void the warranty!!

Warranty claims must be registered with the Dealer/Distributor, and defective parts must be returned to the Dealer/Distributor at the owner's expense. The Dealer/Distributor will assume cost of the shipping one way in regards to any warranty claim. Freight is standard UPS ground. Any expedited services are at an additional charge and will be paid in full before shipping at the owner's expense. The shipping of warranty/parts out of the continental USA, will not be covered under warranty. The labor charge out of the continental USA is also not covered under warranty.

All mills have a 2 year warranty against manufactures defects.
Excluding the H2HG, H360, and Oscar 52, they have a 1 year warranty.

Warranty Claim Procedure

All warranty claims that are done in the field will be handled as follows:

- 1) Customer will call the Dealer/Distributor and acknowledge the problem.
- 2) If the problem can be solved in the field, new parts will be shipped, invoiced and paid for. A credit will be given once the old parts are returned, if covered by warranty.
- 3) If requested, parts to be replaced must be returned, at owner's expense within 30-days to receive credit.
- 4) If the problem is deemed to severe to be fixed in the field by the customer, then the customer must bring the saw mill, at the owner's expense, to the closest Hud-Son Dealer/Distributor for repair. If the Dealer/Distributor is not qualified to make the repairs, then the equipment must be returned to Hud-Son Forest Equipment, Inc at the customer's expense.
- 5) If the problem is deemed not to be a warranty problem, an invoice will follow for the parts that were replaced, as well as an invoice for any time spent on the mill by Hud-Son Forest Equipment, Inc staff and/or Dealer/Distributor staff.
- 6) Any modification to the band mill that is performed by any personnel other than Hud-Son Forest Equipment, Inc direct staff voids the warranty.
- 7) Any parts that are replaced without the discretion of the Dealer/Distributor voids the warranty on the part the customer is replacing and no reimbursement will be made.
- 8) Parts purchased by the customer from an outside source, without prior approval from Hud-Son Forest

Equipment, Inc will NOT be reimbursed.

ALWAYS CALL YOUR SERVICING DEALER FIRST!!

Dealers/Distributors carry parts and are very knowledgeable with the inner workings of your sawmill. Remember that modifying your mill or using parts that are Not Hud-Son Forest Equipment Inc approved, can void your warranty.

CE Approved Models: European Mills

Warranty on Parts ONLY!! No warranty on labor or shipping.

Warranty/Service Information:

Please contact our warranty department with any issues or to reorder parts,
at 315-896-4316 or 1-800-765-7297.

Hours of operation are M-F 8:00 - 4:30 est.

**IF NOT IN THE CONTINENTAL USA - HUD-SON DOES NOT PAY FREIGHT OR
SHIPPING ON WARRANTY OR LABOR.**

Transport Instructions

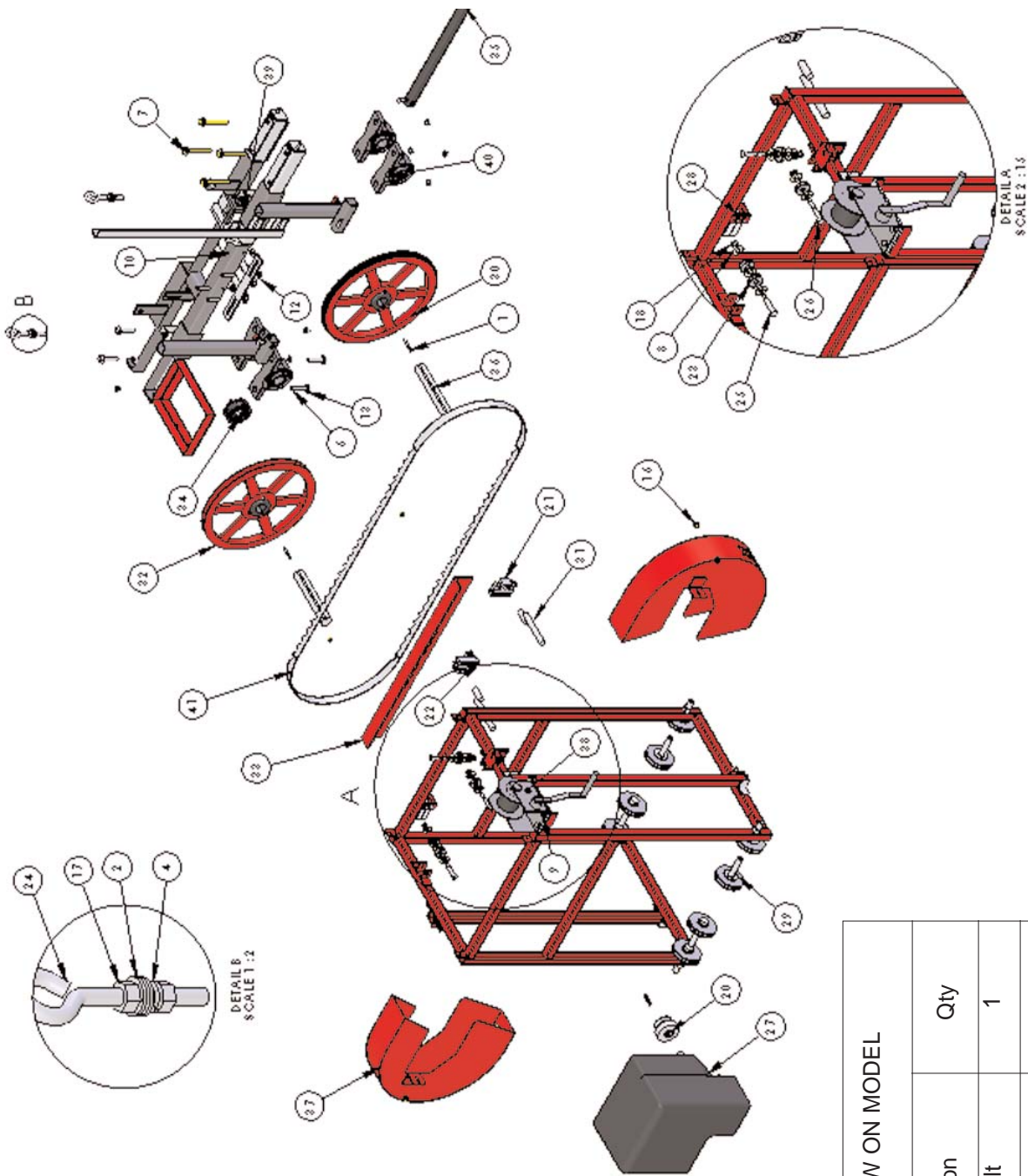
Follow all the steps to safely transport the Hud-Son Saw Mill Trailer Model

1. Lock head into travel position.
2. Raise extension legs and lock in upright positions.
3. Raise rear legs of frame and pin in raised position.
4. Raise jack to desired height, remove pin and rotate to horizontal position, hook hitch to vehicle. Plug in lights and brakes. Hook-up safety chains and break-away switch. (If applicable)
5. Lift front legs and lock in transport position.
6. Be sure to clean unit of all loose debris, including all bark, sawdust and dirt.

Trouble Shooting

<i>Problem</i>	<i>Cause</i>	<i>Solution</i>
<i>Blade is Diving/Rising</i>	Dull Blade RPM's Not High Enough Blade Not Tensioned Properly Sawing Soft Pitch Wood (Pitch Build-Up in Blade Gullets)	Sharpen or Replace Blade Saw at Full Throttle Check Torque on Tensioning Bolt (Perform "Flutter" Test) Use Lubricant on Blade PETROLEUM PRODUCTS, MINERAL OIL OR VEGETABLE OIL SHOULD NOT BE USED ON OUR MILLS Saw Tree from the Top to the Bottom (small end to wide end) Slow Down Reset Teeth to Proper Set
<i>Mill Sawing Hard</i>	RPM's Not High Enough on Engine Belt is Slipping Sawing Hardwood Dull Blade Bark or Sawdust Build-up on Wheels or Track	Always Saw at Full Throttle Adjust Belt Tension Slow Down your Sawing Speed Sharpen or Replace Blade Clean Wheels and Track
<i>Clutch Slipping</i>	Debris and/or Oil can cause slippage	Clean out clutch bell Inspect/repair springs and shoes
<i>Engine Powers Down (Loosing RPM's)</i>	Pushing the Mill too Fast Dirty Air Filter Dull Blade	Slow Down your Sawing Speed Clean/Change Sharpen/Replace Blade
<i>Mill not Sawing Square</i>	Over Dogged Track Not Level & Square Cables are Out of Line Guides are Out of Adjustment Not Putting Flatside of Cant Flush with Squaring Post on the First Turn Bad Trolley Bearing	Loosen Dog Pressure Level Track Re-adjust Cables Re-Adjust Blade Guides Put Cant on Flatside, Flush with Squaring Post Replace Trolley Wheel
<i>Log Moves When Dogged</i>	Over Dogged, too Much Pressure on Dogs	Loosen Dog Pressure
<i>New Blade Will Not Cut</i>	Blade Could Be Turned Inside Out	Turn the Blade So That the Teeth are Pointing to the Discharge Direction
<i>Boards have Fine or Large Lines in them Every Several Inches in a Repeating Pattern</i>	A Tooth in the Blade is Out of Set	Reset Tooth in Blade

Oscar 18 Mill Assembly



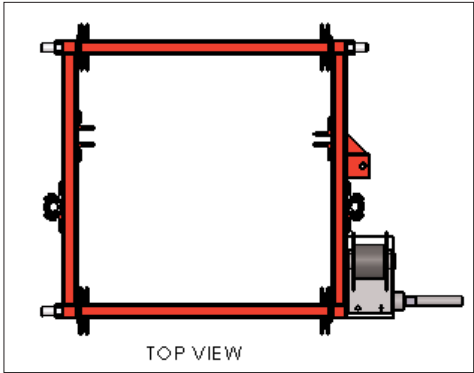
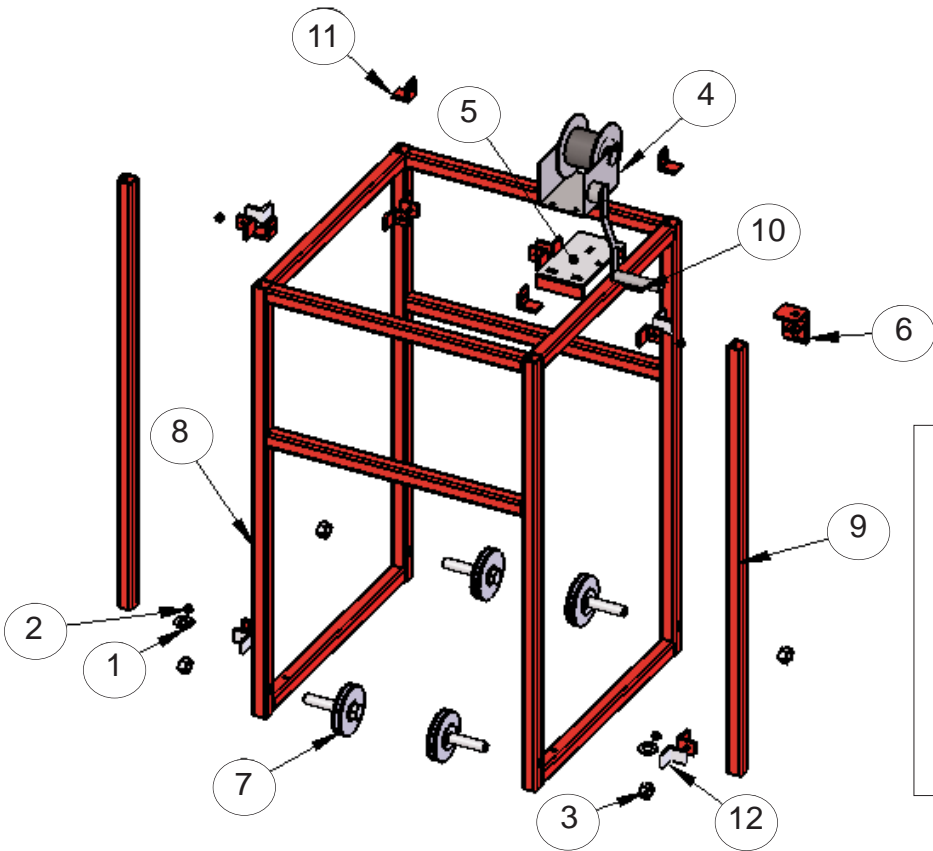
ITEMS NOT SHOW ON MODEL		Qty
Part No	Description	Qty
B77	Drive Belt	1
45504	5/32" Lift cable - 56"	1
45504	5/32" Lift Cable - 86"	1
45112	Cable Clamps	4
	Decals	

Oscar 18 Mill Parts List

OSCAR 18

Item No.	Part No.	Description	Qty.
1	10542-02299	KEYWAY 1/4" X 1/4" X 2"	3
2	1133012	USS 1/2 F/W Z	6
3	1133082	SAE /88 F/W Z	4
4	1133626	SPLIT L/W 1/2" Z	2
5	110120344	HCS 3/8 -16 X 1 Z5	5
6	110120384	HCS 1/2 -13 X 2 1/2 Z5	4
7	110120390	HCS 1/2 - 13 X 4 Z5	4
8	11343-00644	NY 1/2 X 1 1/4 X .062	7
9	12057	HCS 3/8 - 16 X 1 P5	3
10	13060	HCS 1/4 - 20 X 1 Z5	4
11	13112	HCS 3/8 - 16 X 2.25 Z5	1
12	33006	USS FW 5/ 16Z	14
13	33086	SAE F/W 1/2" Z	9
14	33620	L/W 5/16 Z	7
15	36303	FHN 5/16" - 18 P5	7
16	36305	FHN 3/8" - 16 P5	7
17	36310	FHN 1/2" - 13 Z5	12
18	37341	FLNG LK 3/8 - 16Z	3
19	1137024	NYLOCK 3/8 - 16Z	1
20	4075P007	CLUTCH PULLEY .75 1 AB 2.50	1
21	976-001-L	GUIDE ASSEMBLY	1
22	976-001-R	GUIDE ASSEMBLY	1
23	976-004	CABLE PULLEY - 00158	4
24	976-006	EYE BOLT -L3	2
25	976-009	SHOULDER BOLT FOR 00158 PULLEY	1
26	976-010	SHOULDER BOLT - 3/8 X 2.5	2
27	BS-6.5HP	6.5 HP ENGINE	1
28	DH-1006	SITE GLASS ASSEMBLY	1
29	DH-1071	TRACK WHEEL ASSEMBLY	4
30	DH-1078	SHEAVE ASSEMBLY W/BELTING	1
31	DH-1098	GUIDE PIN ASSEMBLY	2
32	DH-1099	SHEAVE W/RED PAINT	1
33	DH-2523	18/228 CENTER GUARD "HUD-SON"	1
34	FA3002SB0002	3" FLAT BELT IDLER W/BUSHING	1
35	O18, O228,-004-01	GUIDE SLIDE BAR	1
36	O18, O228-004-04	PILLOW BLOCK KEY SHAFT	2
37	O18, O228-006	18/228 GUARD ASSEMBLY	2
38	O18-001	OSCAR 18 CAGE ASSEMBLY	1
39	O18-002	OSCAR 18 HEAD ASSEMBLY	1
40	UCP208-24-Q	PILLOW BLOCK	4
41	WM132	132" BAND BLADE: 18/228	1

Oscar 18 Cage Assembly

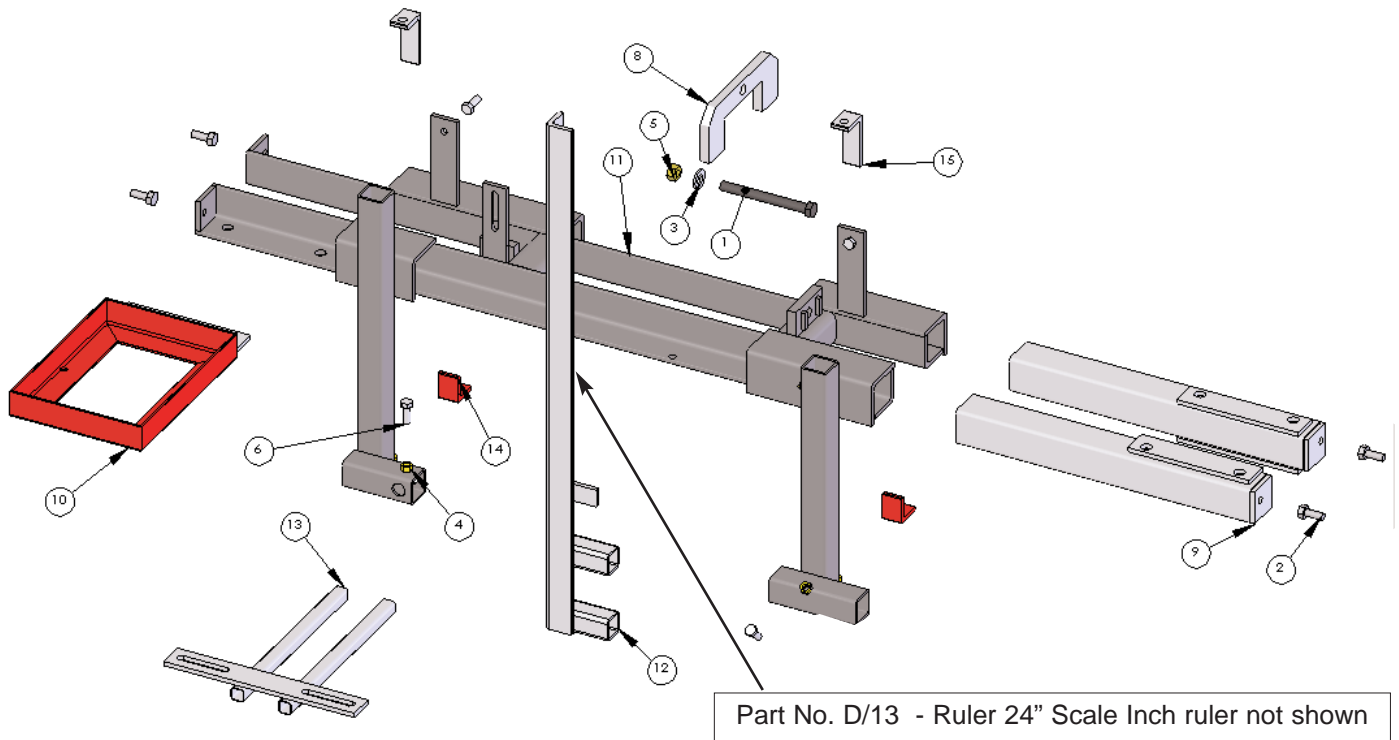


Oscar 18 Cage Parts List

O18-001

Item No.	Part No.	Description	Qty.
1	33078	SAE F/W 1/47 Z	2
2	1136306	3/8 - 16 FHN Z5	4
3	1136316	3/4 - 10 FHN Z5	4
4	976-013	WINCH	1
5	DH-1064	MILLS - WINCH PLATE ASSEMBLY	1
6	DH-1065	PULLEY BRACKET ASSEMBLY	1
7	DH-1071	TRACK WHEEL ASSEMBLY	4
8	O18-001-01	OSCAR 18 CAGE WELDMENT	1
9	O18-001-04	OSCAR 18 LIFT TUBE	2
10	O18. O228-003-01	GUSSETT - 1 3/4" X 1/4" FLAT	1
11	SS-0012	1 1/2" ANGLE BRACKET W/HOLE	12
12	SS-0013	1 1/2" BRACKET NO HOLE	4

Head Assembly Oscar 18

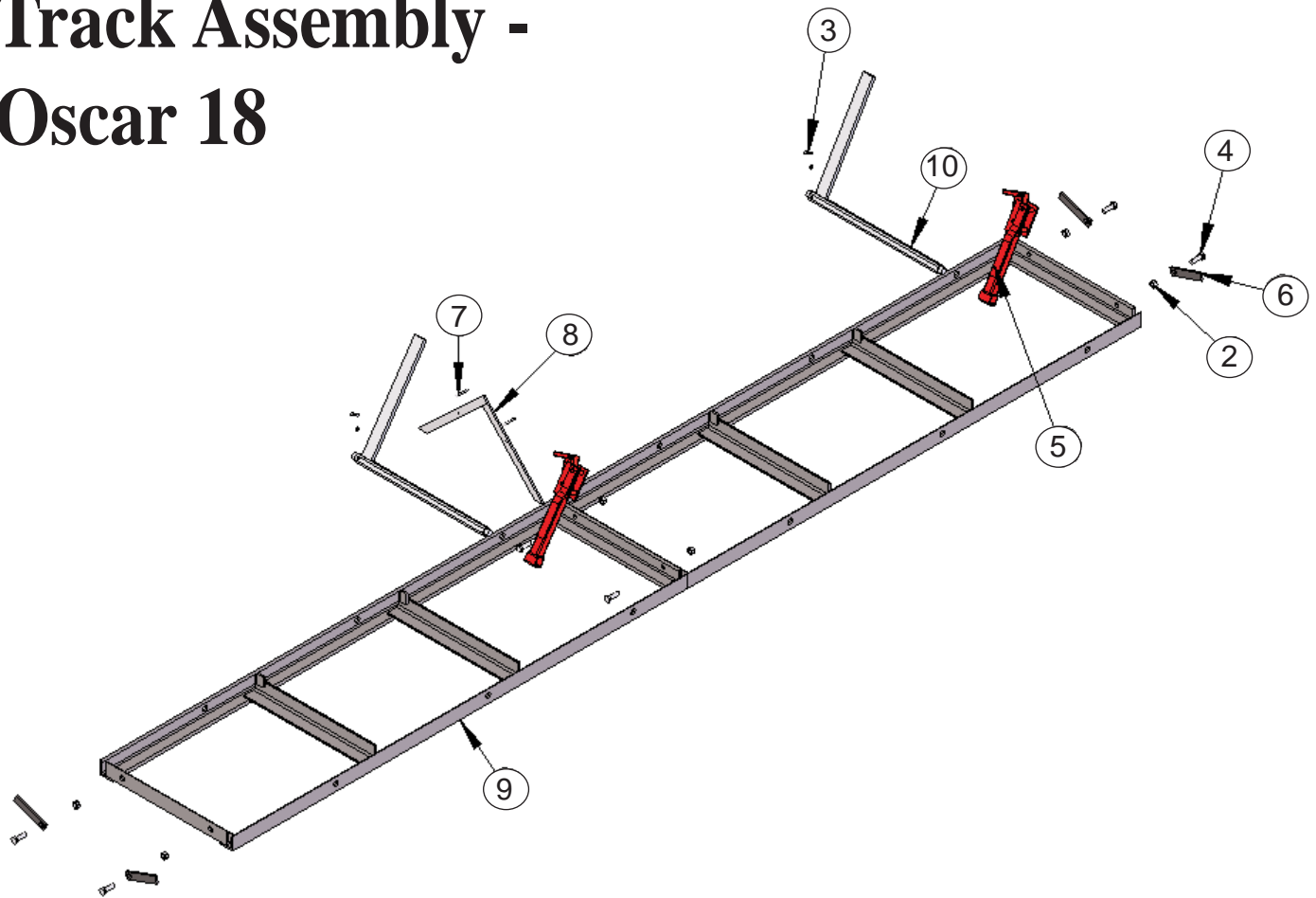


Head Parts List Oscar 18

O18-002

Item No.	Part No.	Description	Qty.
1	11343-00204	TAP BOLT - GR 1/2 X 5	1
2	12105	HCS 3/8 - 16 X 1 P5	4
3	33086	SAE F/W 1/2" Z	1
4	36305	FHN 3/8 - 165	4
5	36410	FHN 1/2" - 13 YZ8	1
6	110120344	HCS 3/8 - 16 X 1 Z5	4
7	60108 CURF	ZERK 3/16' - GREASE FITTING	2
8	DH-2223	TENSION PLATE	1
9	O18, O228-002-00-2	SLIDE TUBE ASSEMBLY	2
10	O18, O228-005	O18/228 LUBE TANK	1
11	O18-002-00-1	O18 HEAD SUB-ASSY	1
12	O18-002-00-3	SCALE STICK	1
13	O18-004	O18 - MOTOR MOUNT	1
14	SS-0012	1 1/2" ANGLE BRACKET W/HOLE	2
15	SS-0014	3" X 1 1/2" ANGLE BRACKET W/HOLE	2

Track Assembly - Oscar 18

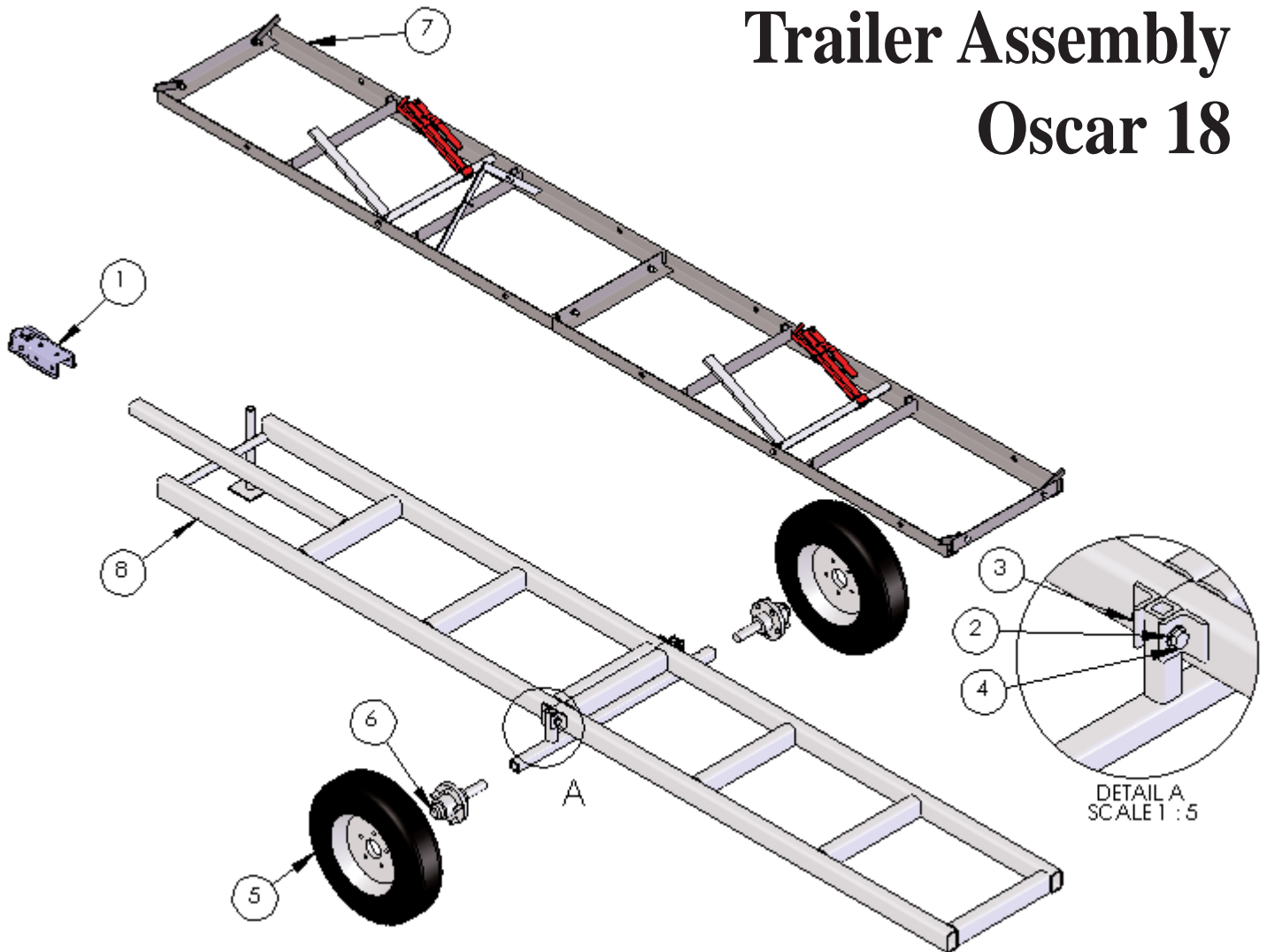


Track Parts List Oscar 18

O18-005

Item No.	Part Number	Description	Qty.
1	1136302	FHN 1/2 - 20 Z5	2
2	1136310	FHN 1/2 - 13 Z5	6
3	110120304	HCS 1/4 - 20 X 1 Z5	2
4	110120380	HCS 1/2 - 13 X 1 1/2 Z5	6
5	976-027	SMALL LOG DOG	2
6	DH-0939	TRACK STOP BRACKET	4
7	DOUBLE HEADED NAIL	DOUBLE HEADED NAIL - 2 1/2"	4
8	O18-003	LOG SUPPORT	2
9	O18-005-00-1W	OSCAR 18 TRACK WELDMENT	2
10	O18-005-00-2	OSCAR 18 J-BAR WELDMENT	2

Trailer Assembly Oscar 18

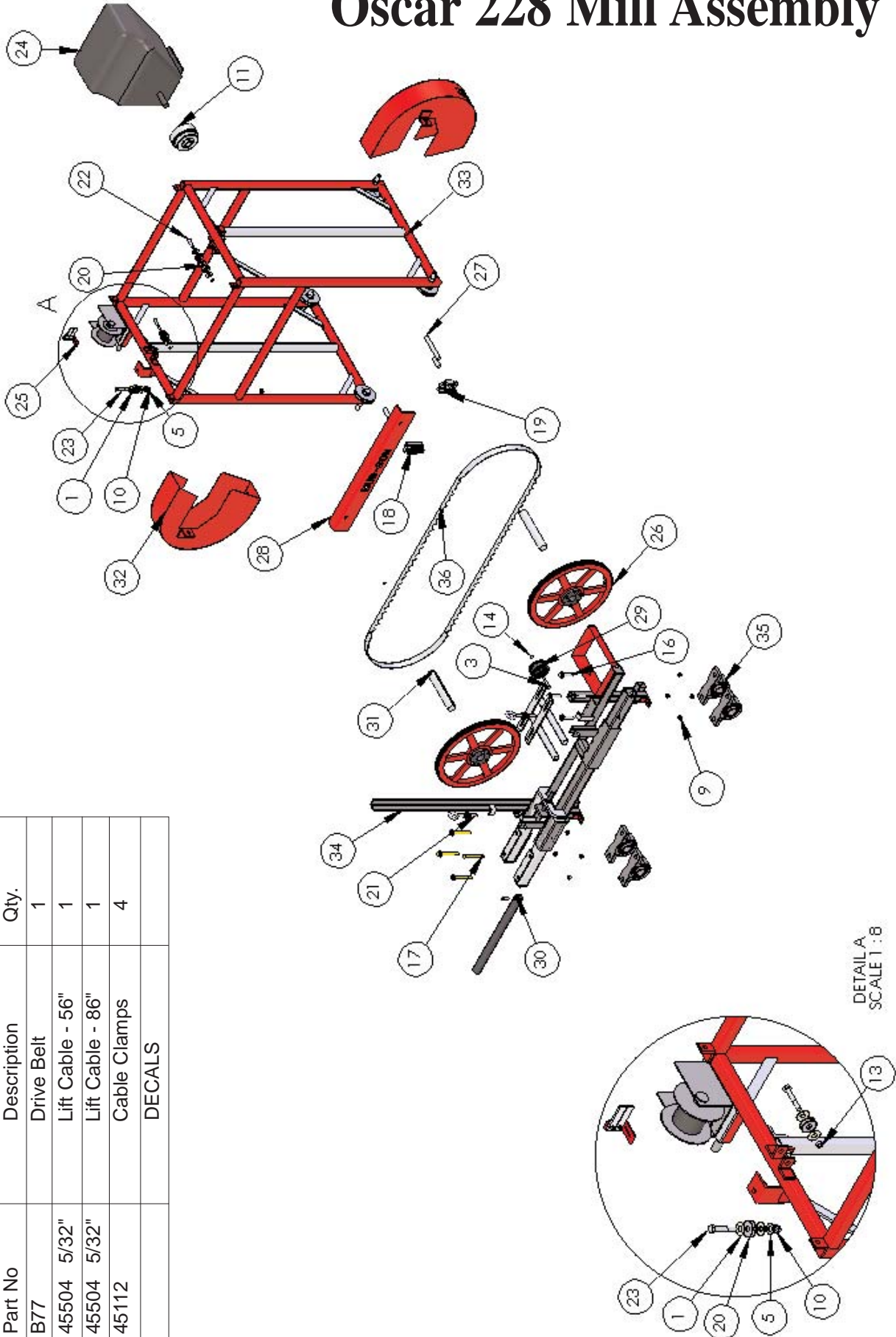


Trailer Parts List Oscar 18

O18-006

Item No.	Part No.	Description	Qty
1	0091060	COUPLER	1
2	1133012	USS 1/2 F/W Z	2
3	1136310	FHN 1/2 - 13 Z5	2
4	110120384	HCS 1/2 - 13 X 2 1/2 Z5	2
5	3S140	TRAILER TIRE	2
6	4-150-02-00	4 1/2" HUB	2
7	O18-005	OSCAR 18 TRACK ASSEMBLY	1
8	O18-006-00-1	OSCAR 18 TRAILER FRAME WELDMENT	1

Oscar 228 Mill Assembly



DETAIL A
SCALE 1 : 8

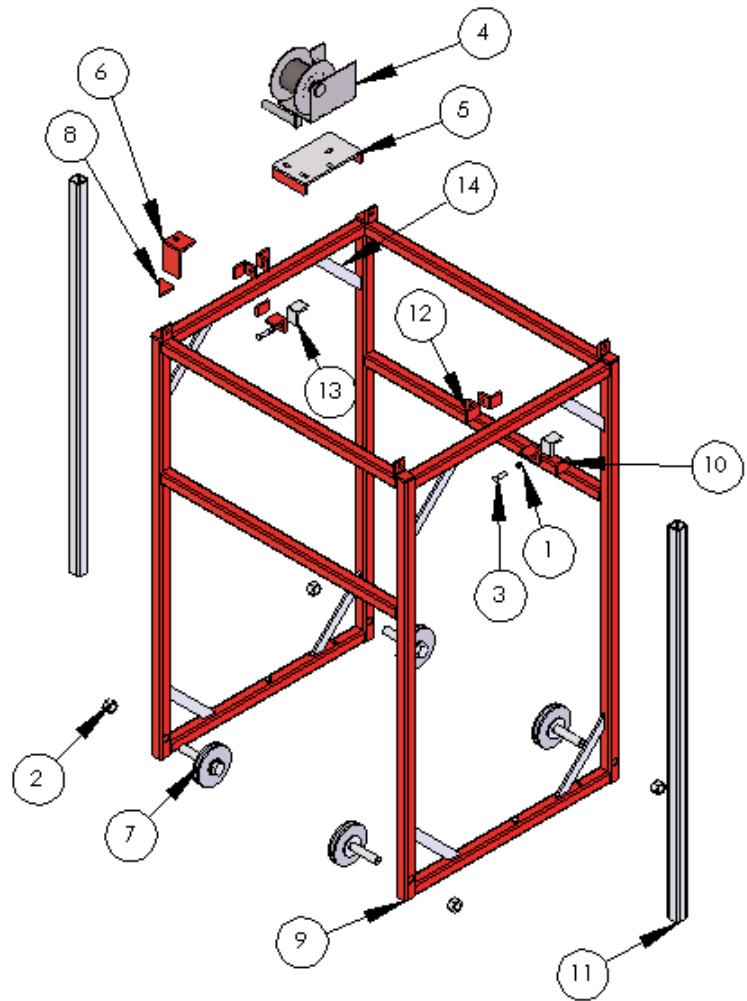
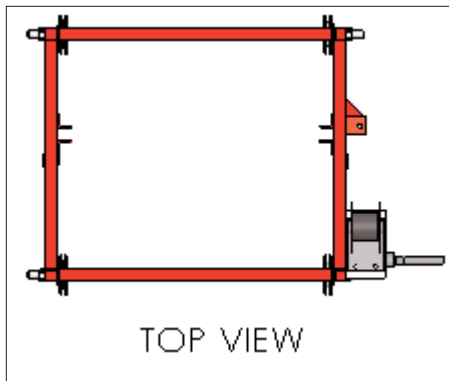
Items Not Shown in Model		
Part No	Description	Qty.
B77	Drive Belt	1
45504 5/32"	Lift Cable - 56"	1
45504 5/32"	Lift Cable - 86"	1
45112	Cable Clamps	4
	DECALS	

Trailer Parts List Oscar 228

OSCAR 228

Item No.	Part No.	Description	Qty
1	11343-00644	NY 1/2 X 1 1/4 X .062	7
2	12057	HCS 3/8 - 16X 1 P5	3
3	13112	HCS 3/8 - 16 X 2.25 Z5	1
4	33006	USS F/W 5/16 Z	6
5	33086	SAE F/W 1/2" Z	9
6	33620	L/W 5/16 Z	3
7	36303	FHN 5/16" - 18 P5	3
8	36305	FHN 3/8 - 16 P5	7
9	36310	FHN 1/2" - 13 Z5	12
10	37341	FLNG LK 3/8 - 16 Z	1
11	160021	CLUTCH	1
12	1133012	USS 1/2 F/W Z	6
13	1136306	3/8 - 16 FHN Z5	2
14	1137024	NY LOCK 3/8 - 16Z	1
15	110120344	HCS 3/8 - 16 X Z5	2
16	110120384	HCS 1/2 - 13 X 2 1/2 Z5	4
17	110120390	HCS 1/2 - 13 X 4 Z5	4
18	976-001-L	GUIDE ASSEMBLY	1
19	976-001-R	GUIDE ASSEMBLY	1
20	976-004	CABLE PULLEY - 00158	4
21	975-006	EYE BOLT - L3	2
22	976-009	SHOULDER BOLT FOR 00158 PULLEY	1
23	976-010	SHOULDER BOLT - 3/8 X 2.5	2
24	BS-8HP	ENGINE - 8 HP	1
25	DH-1006	SITE GLASS ASSEMBLY	1
26	DH-1078	SHEAVE ASSEMBLY W/BELTING	2
27	DH-1098	GUIDE PIN ASSEMBLY	2
28	DH-2523	18/228 CENTER GUARD "HUD-SON"	1
29	FA3002SC0002	3" FLAT BELT IDLER W/BUSHING	1
30	O18, O228-004-01	GUIDE SLIDE BAR	1
31	O18, O228-004-04	PILLOW BLOCK KEY SHAFT	2
32	O18,O228-006	18/228 GUARD ASSEMBLY	2
33	O228-001	CAGE ASSEMBLY	1
34	O228-002	HEAD ASSEMBLY	1
35	UCP208-24 Q	PILLOW BLOCK	4
36	WM 132	132" BAND BLADE 18/228	1

Oscar 228 Cage Assembly

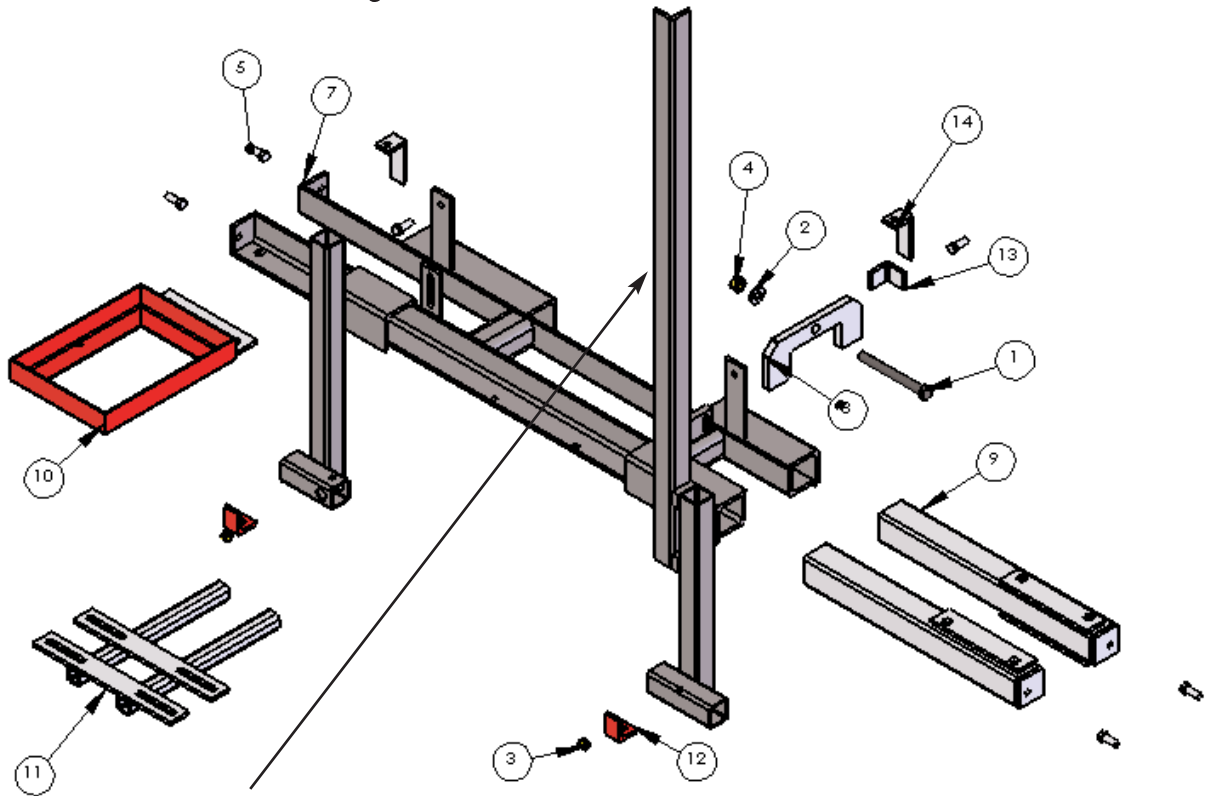


Cage Parts List Oscar 228

O228-001

Item No	Part No	Description	Qty
1	1136306	3/8 - 16 FHN Z5	4
2	1136316	3/4 - 10 FHN Z5	4
3	110120344	HCS 3/8 - 16 X 1 Z5	2
4	976-013	WINCH	1
5	DH-1064	MILLS - WINCH PLATE ASSEMBLY	1
6	DH-1065	PULLEY BRACKET ASSEMBLY	1
7	DH-1071	TRACK WHEEL ASSEMBLY	4
8	O18,O228-003-01	GUSSETT - 1 3/4" X 1/4" FLAT	1
9	O228-001-00-1	OSCAR 228 FRAME WELDMENT	1
10	O228-001-04	LIFT TUBE STOP	2
11	O228-001-05	LIFT TUBE	2
12	SS-0012	1 1/2" ANGLE BRACKET W/HOLE	10
13	SS-0013	1 1/2" BRACKET NO HOLE	2
14	SS-00A1	8 3/8" BRACE	8

Oscar 228 Head Assembly



Part No. D/13 - Ruler 24" Scale Inch ruler not shown

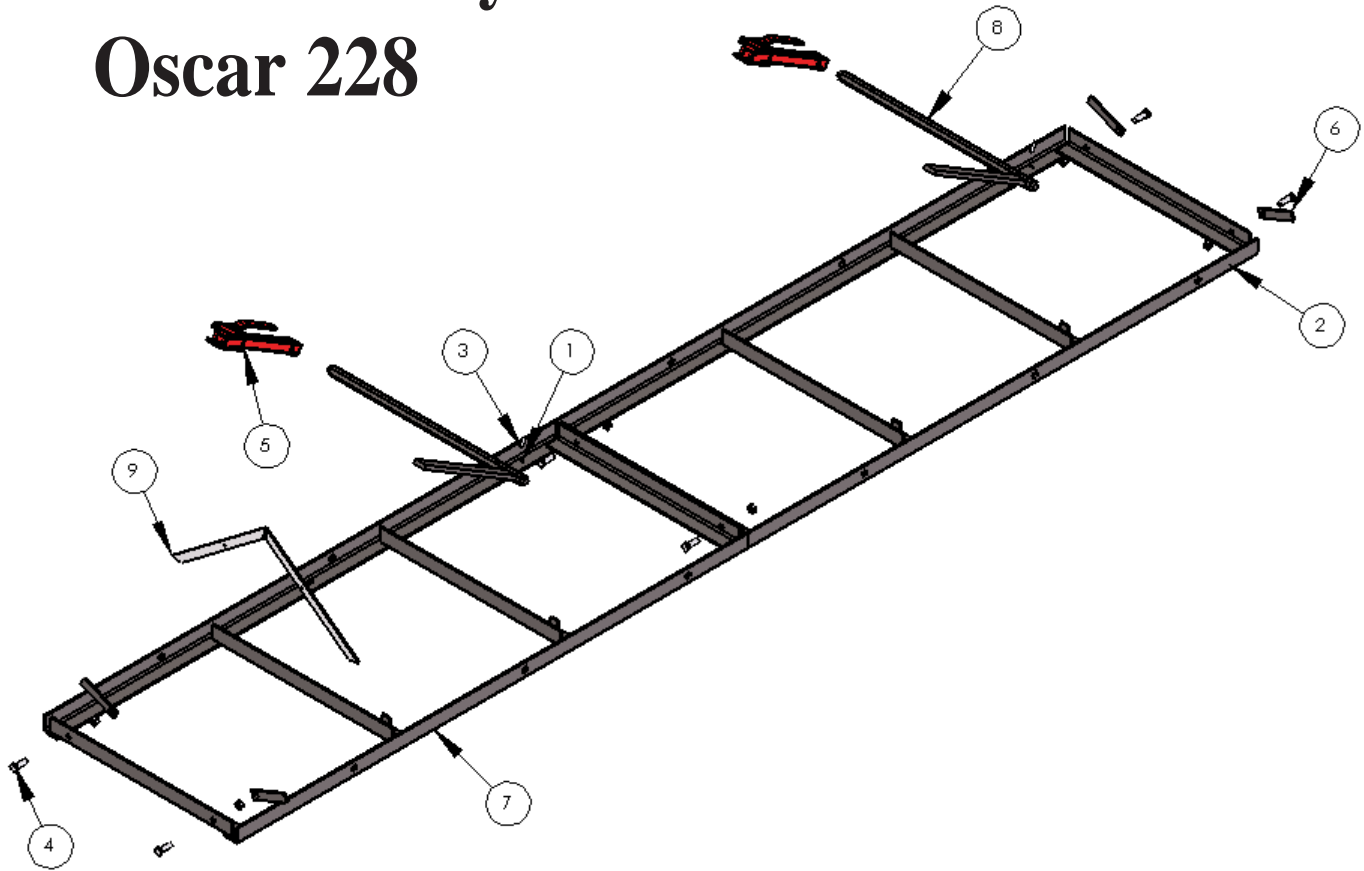
Head Parts List Oscar 228

O228-002

Item No	Part No	Description	Qty
1	11343-00204	TAP BOLT - GR 1/2 X 5	1
2	33086	SAE F/W 1/2" Z	1
3	36305	FHN 3/8 - 16 P5	4
4	36410	FHN 1/2" - 13 YZ5	1
5	110120344	HCS 3/8 - 16 X 1 Z5	6
6	60108 CURT	ZERK 3/16" -GREASE FITTING	2
7	SUB-HEAD	O228 HEAD SUB-ASSY	1
8	DH - 2223	TENSION PLATE	1
9	O18, O228-005-00-2	SLIDE TUBE ASSEMBLY	2
10	O18, O228-005	O18/O228 LUBE TANK	1
11	O228-005	MOTOR BRACKET ASSEMBLY	1
12	SS-0012	1 1/2" ANGLE BRACKET W/HOLE	2
13	SS-0013	1 1/2" BRACKET NO HOLE	1
14	SS-0014	3" X 1 1/2" ANGLE BRACKET W/HOLE	2

Track Assembly

Oscar 228

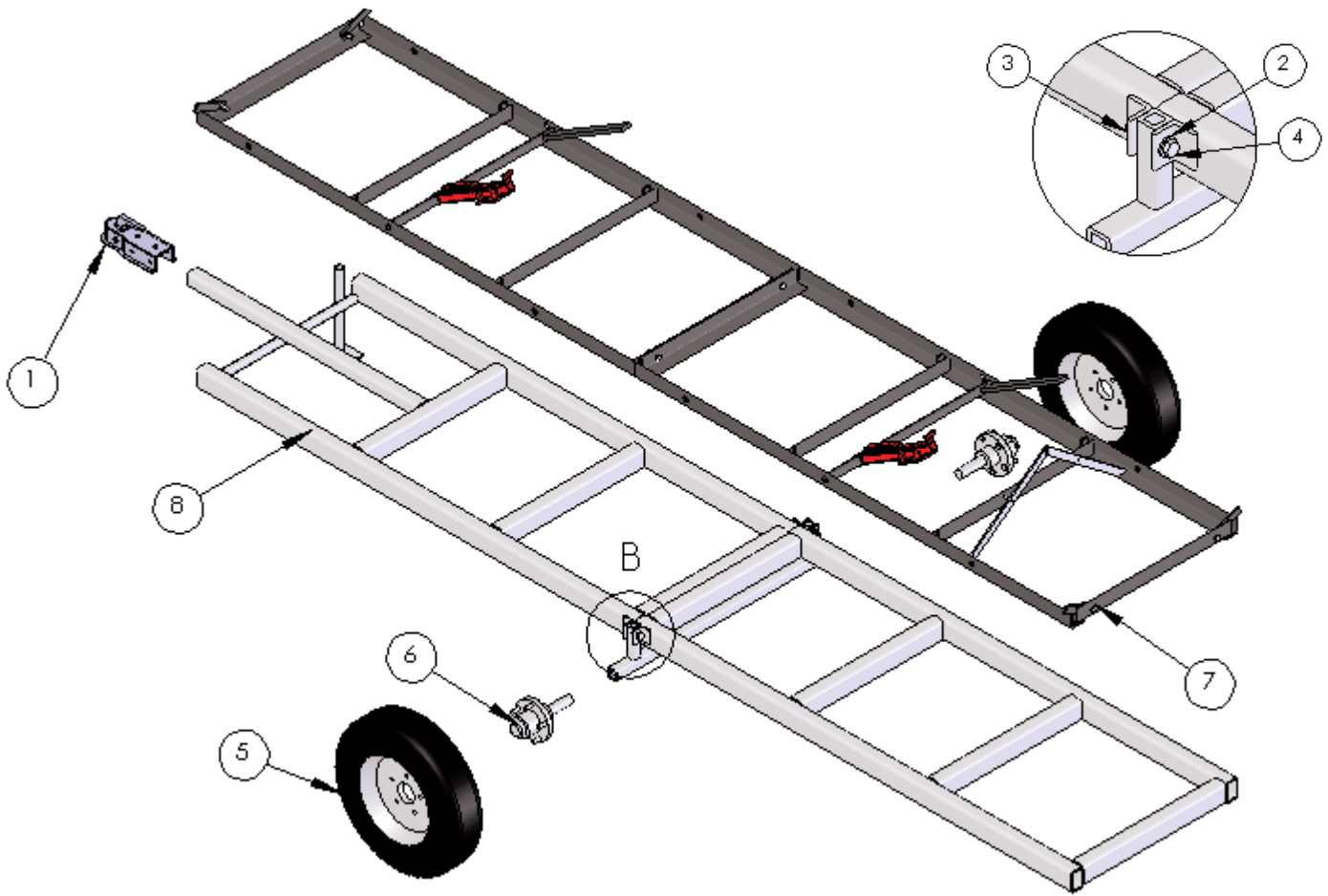


Track Parts List Oscar 228

O228-003A

Item No.	Part No.	Description	Qty.
1	1136302	FHN 1/4 - 20 Z5	2
2	1136310	FHN 1/2 - 13 Z5	6
3	110120304	HCS 1/4 - 20 X 1 Z5	2
4	110120380	HCS 1/2 - 13 X 1 1/2 Z5	6
5	976-027	SMALL LOG DOG	2
6	DH-0939	TRACK STOP BRACKET	4
7	O228-003-00-1	O228 TRACK WELDMENT	2
8	O228-003-00-2	J-BAR	2
9	O228-003-00-3	LOG SUPPORT	2
10	Not applicable	Nails (Not Shown)	4

Trailer Assembly Oscar 228



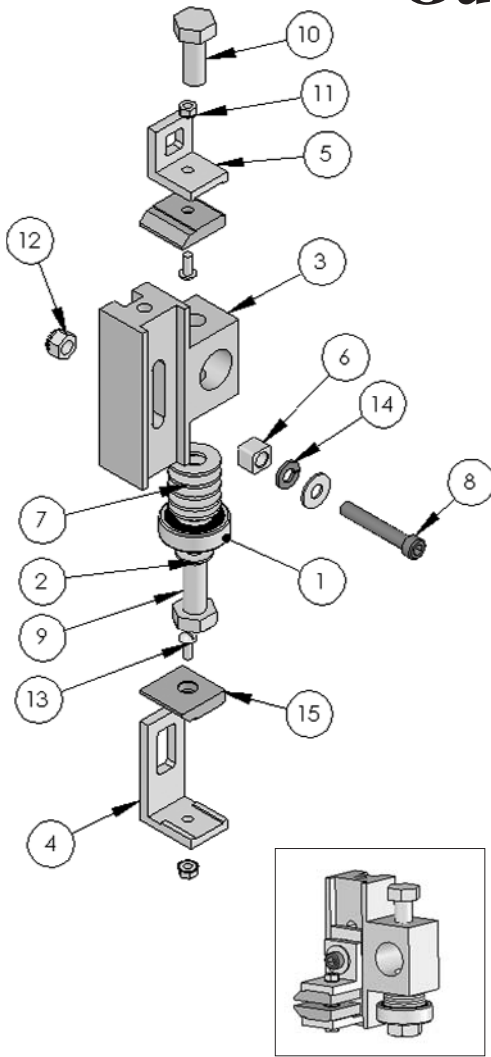
Trailer Parts List Oscar 228

O228-004

Item No.	Part No.	Description	Qty
1	0091060- Coupler	COUPLER	1
2	1133012	USS 1/2 F/W Z	2
3	1136310	FHN 1/2 - 13 Z5	2
4	110120384	HCS 1/2 - 13 X 2 1/2 Z5	2
5	3S140	TRAILER TIRE	2
6	4-150-02-00	4 1/2" HUB	2
7	O228-003 A	TRACK ASSEMBLY	1
8	O228-004-00-1	OSCAR 228 TRAILER FRAME WELDMENT	1

Guide Assembly Parts List

976-001-R

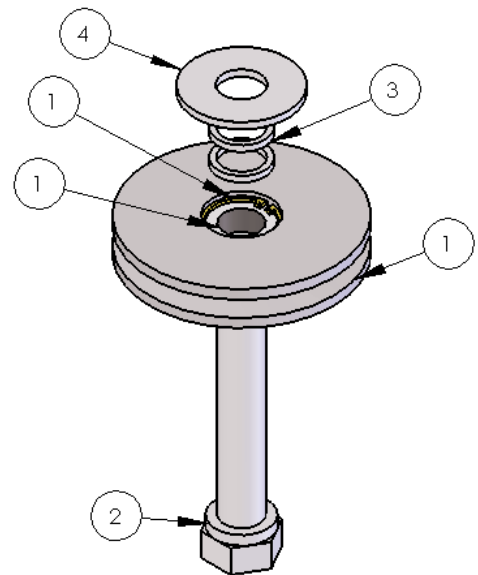


Item No.	Part No.	Description	Qty.
1	6200-2RS	6200-2RS BEARING	1
2	976-001-SW	SMALL WASHER	2
3	976-001-01	GUIDE MAIN BODY	1
4	976-001-02	GUIDE BRACKET	1
5	976-001-03	SHORT GUIDE BRACKET	1
6	976-001-04	O18-001-04	1
7	976-001-06	GUIDE WASHER	5
8	976-001-AB	GUIDE - ALAN BOLT	1
9	976-001-B	GUIDE BOLT	1
10	976-001-BOLT-1	BOLT	1
11	976-001-LN	GUIDE - LOCK WASHER	2
12	976-001-RB	GUIDE -LOCK WASHER	1
13	976-001-SCREW	GUIDE -SCREW	2
14	976-001-SPW	GUIDE - SPLIT WASHER	1
15	CP20-10A	O18-0001-05	2

Track Wheel Assembly Parts List

DH-1071

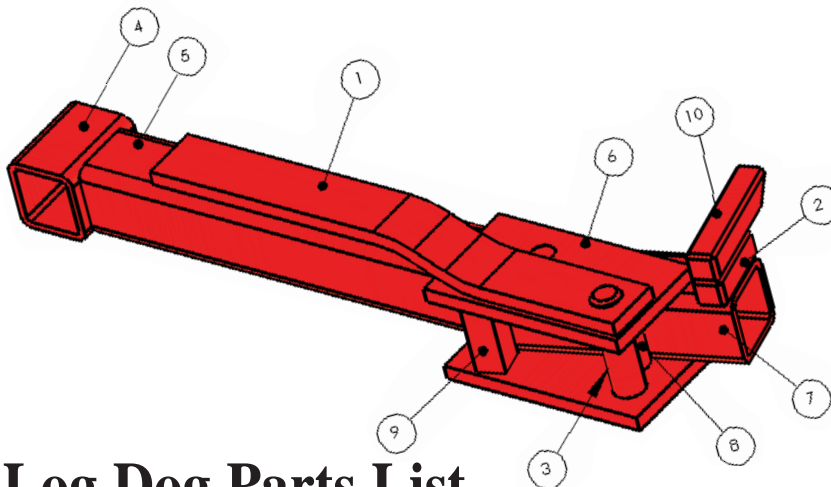
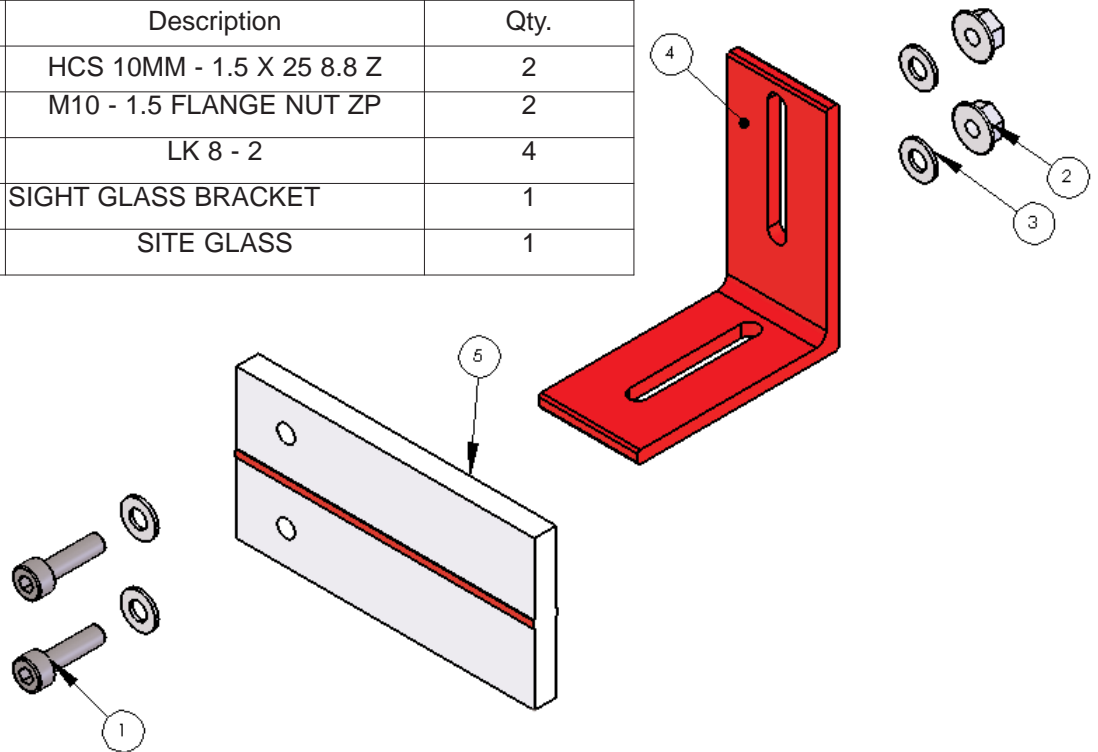
Item No.	Part No.	Description	Qty.
1	976-019	TW3 TRACK WHEEL	1
2	976-026	SHOULDER BOLT	1
3	11343-00592	F/W 3/4 X 1 X 1/8 Z	2
4	1133092	SAE F/W 3/4" Z	1
5	1168060	C-CLIP	1
6	6203-2RS	BEARING - 3/4" ID	1



Site Glass Assembly Parts List

DH-1006

Item No.	Part No.	Description	Qty.
1	38655	HCS 10MM - 1.5 X 25 8.8 Z	2
2	90702	M10 - 1.5 FLANGE NUT ZP	2
3	1137406	LK 8 - 2	4
4	SS-0029	SIGHT GLASS BRACKET	1
5	UG-001	SITE GLASS	1



Small Dog

Small Log Dog Parts List

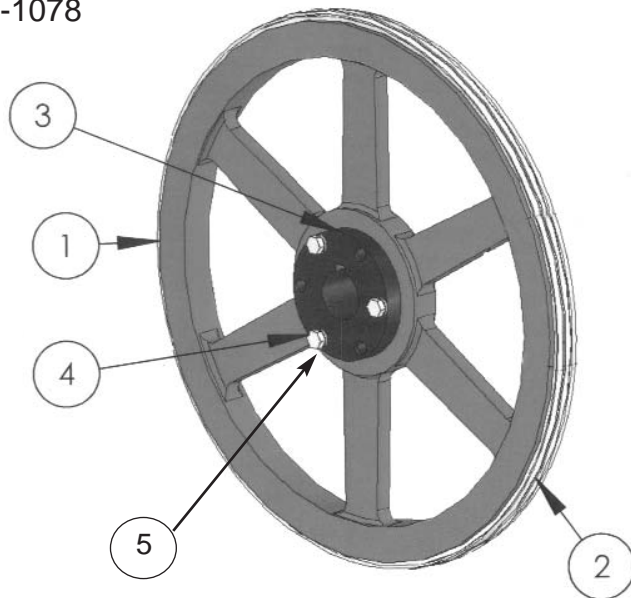
976-027

Item No.	Part No.	Description	Qty
1	976-027-1	HANDLE	1
2	976-027-10	GRAB SPACER	1
3	976-027-2	PIVOT ROD	1
4	976-027-3	REAR POCKET	1
5	976-027-4	MAIN SUPPORT	1
6	976-027-5	PLATE	2
7	976-027-6	FRONT POST	1
8	976-027-7	ROCKER PIN	1
9	976-027-8	SPACER	1
10	976-027-9	GRAB	1

Sheave Assembly Parts List w/Belting for Oscar 18 & 228

DH-1078

Item No	Part No	Description	Qty
1	1B160SK	16" Sheave w/Red Paint	1
2	4999410	Belting Crown Top	1
3	SKS 1.5	Q Bushing for Sheaves	1
4	SKS 1.5-B	Bolt	3
5	Not Applicable	Lock Washer	1



Clutch Breakdown Parts List for Oscar 18 & 228



Item No	Part No	Description	Qty
1	11061199	DRUMS	1
2	J-1416 ALT # 03000015	BEARING	1
3	11301005	HUB	1
4	02400066	WASHER	1
5	01900004	SNAP RING	1
6	01200153	SHOE	2
7	0100012	SPRING	2

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