

# HUD-SON

## FOREST EQUIPMENT

FOR THE WORK YOU DO.

### THE WOLVERINE OWNER'S MANUAL - Models A & M

Hud-Son Forest Equipment is capturing the market  
due to unmatched quality and value.



Please read manual completely before operating machine.

WOLVERINE FIREWOOD PROCESSOR OWNERS MANUAL  
800.765.SAWS • WWW.HUD-SON.COM

**A N O T E F R O M H U D - S O N**

Thank you for your purchase of the Wolverine firewood processor from Hud-Son Forest Equipment. We are pleased that you chose us as your supplier of your forestry equipment.

Hud-Son Forest Equipment has been in the forestry business since 1965 and prides itself on developing new and innovative products for the forestry business. Our product line is always transforming so please check us out on the web at [www.hud-son.com](http://www.hud-son.com) for the up and coming developments we are making.

Should you have any questions with the setup of your firewood processor or have any technical questions please feel free to contact our onsite technician Monday - Friday, 8 to 4:30 and Saturdays from 8 to noon eastern time at 1-800-765-7297. We are always available to our customers for any questions or concerns they may have about their equipment.

**C O N T E N T S**

3. . . . . Introduction  
4. . . . . Safety  
8 . . . . . Set Up  
10 . . . . . Operation  
16. . . . . Transport  
17 . . . . . Lube Order  
20. . . . . Parts & Identification

# ***INTRODUCTION***

## *Purchaser Agreement*

*By accepting the delivery of your sawmill by Hud-Son Forest Equipment you agree that you will not modify your mill from it's original assembly. This will VOID any warranty from Hud-Son Forest Equipment.*

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 and damage. If the machine has been damaged or is not running correctly, **DO NOT** attempt to operate the machine. Repair or replace all parts that have been damaged before resuming operations.

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 or while tired.

10) All worn or damaged decals should be replaced.

11) Any modifications to the product require written approval from Hudson Forest Equipment or warranty becomes null and void.

12) The processor should only be used when it is on level, stable ground.

13) Inspect hydraulic winch cable for wear, if frayed or kinked cable should be replaced.

14) Be sure to turn down/off engine for any repairs, lubrication or adjustments to the machine.

### *Hydraulic Safety Precautions*

- 1) All **WARNING** statements must be carefully observed to help prevent personal injury.
- 2) Should a Hydraulic hose ever rupture, burst or need to be disconnected, shut-off all pumps and release the pressure. Do not attempt to grasp the hose, this could cause serious injury.
- 3) Keep hoses away from potential hazards, such as fire, sharp surfaces, heavy impact, or extreme heat or cold. Hoses should not be allowed to kink, twist, curl, crush or bend tightly so that the fluid flow is compromised.
- 4) Periodically inspect all the hoses for wear, which can cause damage to the hose and can possibly result in personal injury.
- 5) The hose should never be used as a handle to move the machinery around. Stress can cause damage to the hose and possibly cause personal injury.
- 6) Before replenishing the fluids, retract the system to prevent overfilling the pump reservoir. Any reservoir overfilled can cause personnel injury due to excess reservoir pressure created when cylinders are retracted.

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 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** - 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.

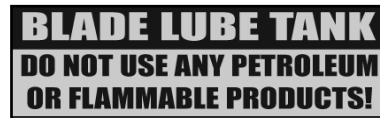
**NOTICE** - Please remember to send in warranty card and information.

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

**CAUTION FIRE HAZARD** - Keep all sawdust away from motor.



**DANGER**  
AVOID SERIOUS INJURY OR DEATH  
**ROTATING PARTS**



Daily maintenance of this machine includes checking engine oil, hydraulic fluid, cable, safety equipment and the splitter trough needs to be cleaned out in front and behind the push plate. Neglecting to do this will result in splitter damage which will NOT be covered under warranty.

**PROCESSOR FILTERS SHOULD BE CHANGED AFTER 10 HOURS OF INITIAL USE AND EVERY 100 HOURS THEREAFTER.**

## **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.



### ***Pre-Operational Checks***

- 1.) Check over complete unit
- 2.) Check Oil—engine, bar oil
- 3.) Observe all warnings and labels on equipment.
- 4.) Make sure Wolverine is on stable surface. Do not set in mud or on top soil with no base.
- 5.) If you must set up on uneven ground, use proper planking and cribbing to ensure that Wolverine stays **LEVEL** and in place when operating.
- 6.) If set up in a fixed indoor location be sure to have proper ventilation for your Wolverine to avoid Co2 hazards.

**ALWAYS OPERATE WINCH  
IN LOW SPEED!**

*Set-Up For The "A" and "M" Model Wolverine*

**MACHINE NEEDS TO BE SET UP AS LEVEL AS POSSIBLE**



1.) Drop back legs first and then jack up hitch until pressure is on the rear stabilizer legs.



2.) Drop front stabilizer legs.

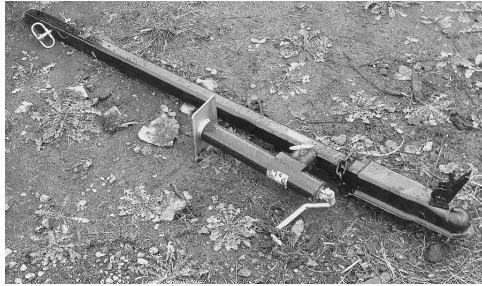


3.) Raise jack so rest of machine rests on stabilizer legs.



4.) Remove hitch pin from towing hitch assembly.





5.) Remove hitch assembly to a location, away from machine.



6. Remove pin from grab leg and secure teeth in dirt.



7.) Drop tail and block wheels.



8.) Push in winch lever to disengage winch, turn until it is locked against plate.



9.) Free spool cable to log and hook up.



10.) Engage winch.



11.) Push the handle down to release more cable, or lift handle up to draw in cable.

### *Cutting And Splitting With The "M" Model Wolverine*



1.) Using your own chainsaw, cut block to desired length.



2.) Place chainsaw on ground in a safe location with the chain lock forward.



3.) Push the splitter lever forward to split the wood.  
4.) Pull the splitter lever back it will lock into a detent position for the splitter ram return.  
5.) Repeat steps 1 through 4 until log processing is completed.

### *Cutting And Splitting With The "A" Model Wolverine*



1.) Push up to unlock bar assembly to make cut.



2.) Begin by bringing the saw bar down to the log with your right hand. As the bar comes close to the log, activate the chainsaw by engaging the momentary toggle switch with your left hand.



3.) Make the cut all the way through and then release the momentary switch when the cut is completed.



4.) Raise the bar to the lock position, making sure that it latched in the up position.



5.) Push the splitter lever forward to split the wood.

6.) Pull the splitter lever back, it will lock into a detent position for the splitter ram return.

7.) Repeat operations 1 through 6 until wood processing is completed.

**\* BE CAREFUL WHEN WINCHING THE LOG. BE SURE THE WINCH IS ON LOW SPEED AND BAR IS IN THE UP POSITION AND LOCKED. SPEED IS ADJUSTABLE WITH WINCH SPEED CONTROL VALVE.**

### *Operation*

*\* NOTE When you are near the end of the cut, go a little faster to the end and the log will drop into the splitter box.*

1) The Wolverine splitting wedge is designed to split different sizes of logs. It is equipped with a two or a four way splitting option.

2.) Using the splitter lever, forward the log into the wedge. Once the log is split use the winch again to advance the next log. Continue this until the log is approximately 3 to 4 foot long. At this point you will need to go back and winch in another log from the pile. This log will be winched up the trough until it bumps up to the existing log. You can now winch the first log up to be cut and split. Continue this step until your logs are done.

### *Stopping Processing Logs*

- 1.) When done, slowly throttle down the engine and then turn off the engine.
- 2.) Be sure the saw dust is cleared from under the machine. Clear debris from the splitter area.
- 3.) Clean all wood and debris from machine.
- 4.) Secure winch cable to the tail.
- 5.) Raise rear legs and secure with bolt (splitter tray end)
- 6.) Remove well-chucks blocks.
- 7.) Pry or dig legs out of soil if necessary.
- 8.) Insert towing hitch into hitch receiver, insert hitch pin, and replace hitch pin safety clip.
- 9.) Jack up front of machine where weight is on the jack.
- 10.) Raise stabilizer legs and tighten bolts.

### **Winching Tips**

*\* NOTE - Be very careful when winching the logs. When winch is winding in make sure that it is not being kinked or or winding in one position. While pulling be alert to not tip machine over.*

*Be sure the rear dig legs are angled into the ground and that they have a good solid spot to dig into. This unit can NOT be ran on a paved surface. The unit must be able to dig into the soil and hold the unit in place. Be sure to stay clear of the winch when it is pulling the cable in. Disregard to this could result in serious injury or death.*

**MAKE SURE WINCH IS OILED. WITHOUT OIL IT DOES NOT MOVE FREELY AND WILL RUST UP.**

### **WARNING!**

Be sure to stay clear of the winch when it is pulling the cable in.  
Disregard to this could result in serious injury or death.

- 1.) **WARNING:** Never use a ball and/or ball mount as an anchor point for tow strap or winch cable. Severe personal injury or death could occur.
- 2.) Use OEM tow hooks, recovery eyes or a clevis mount for attachment of a strap to the winch cable.
- 3.) Always heed to all recommendations, cautions and warnings/stickers and decals.
- 4.) The use of a snatch block with this winch may cause severe damage to the machine and/or yourself and others in the immediate area. **DO NOT USE**

**SNATCH BLOCK WITH THIS MACHINE!**

**Rating:** Maximum line pull angle for winching must not exceed the following angles.

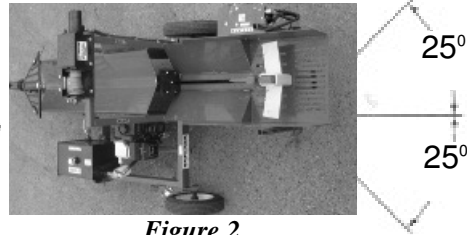
- 1.) 15 degree angle up or down from horizontal. (see figure 1).
- 2.) 25 degree left or right from straight ahead (see figure 2). Caution: Exceeding the maximum line pull rating may overload winch, winch mount, and/or front mounted receiver.

*Top View*



*Figure 1*

*Side View*



*Figure 2*

**SAFETY TIPS**

- 1.) Do not operate any machine under the influence of drugs, alcohol or medications.
- 2.) Isolate winch before putting your hands in or around the fair lead or wire rope drum (The Danger Zone).
- 3.) Be very careful when winching the logs. When winch is winding in, make sure that it is not being kinked or winding in one position on the spool. While pulling be alert not to tip machine over if log snags in log pile.

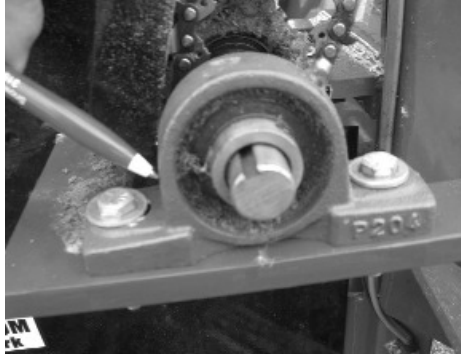
***Removing Bar Chain for Maintenance***  
***Make sure motor is off and key is removed.***



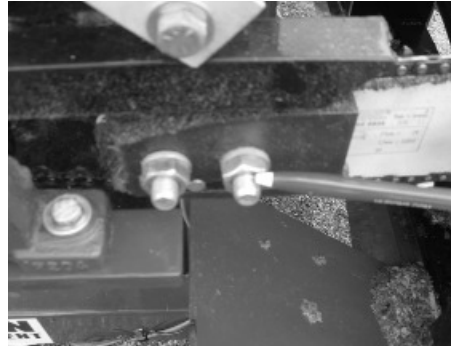
- 1.) Put bar in down position.
- 2.) Place safety cover in open position.



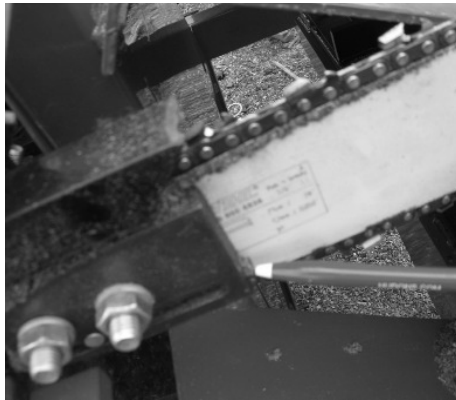
- 3.) Remove safety guard from tip of saw (three bolts)



4.) Remove the two bolts from pillow block bearing.



5.) Loosen the two nuts that hold the tension plate to the bar assembly



6.) Loosen tension from screw on the bar tension plate.

7.) Remove chain, clean bar, oil port, slides, and groove for chain.

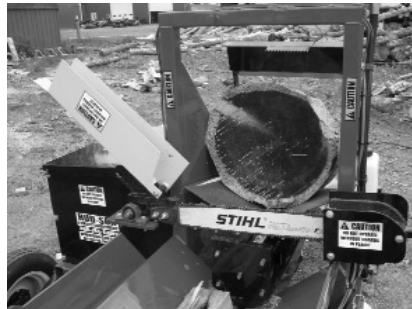
8.) Make sure oil reservoir port is clear of any dirt or sawdust before putting chain on bar.

#### ***Assembling Bar Chain After Maintenance***

- 1.) Be sure all parts are clean and all oil parts/slots are clean of saw dust and/or dirt.
- 2.) In this order put parts back on machine.
  - a. Slide bar on bar assembly studs
  - b. Put chain on bar and sprocket.
  - c. Put on bar tensioners block - be sure that the tensioner stud is properly aligned with the tension slot in the bar and sits flat against the bar assembly. Put on washer and nuts, hand tighten.
  - d. Replace and tighten the two bolts on the pillow block bearing and/tighten with wrench.
  - e. Adjust chain tension to the same tension you would on a chainsaw. Tighten the saw bar nuts.
  - f. Start machine, run chain for 20-30 seconds, shut down engine.
- 3.) Replace and tighten set screws on pillow block bearing and then tighten the two bolts on the pillowblock bearing with wrench.

- 4.) Replace safety guard on tip of saw. Attach bolts in their proper place.
- 5.) Place safety cover in the closed position.
- 6.) Place bar in the up position. You are ready to start cutting again.

### **TROUBLE SHOOTING**



- 1.) The saw bar must be in the down position for any and all adjustments or maintenance.
- 2.) Chain is having problems cutting:
  - Chain is dull.
  - Chain needs to be resharpened or replaced.
  - Lube Oil (check)
  - Check tension on chain
- 3.) Log is not lined up to the trough: Use a cant hook to roll the log to proper alignment
- 4.) Winch cable is coming unwrapped: Keep at least five (5) wraps of cable on the winch at all times.
- 5.) Cable will not release: Run hydraulic lever back and forth to release the tension on the clutch assembly of the winch.
- 6.) Machine slides when winching in a log: Be sure the rear dig legs are angled into the ground and that they have a good solid spot to dig into, and use wheel blocks if necessary.

#### ***Trouble Shooting***

##### *If engine shuts down:*

- Be sure emergency shut off switch is in the ON position.
- Be sure engine is level.
- Check engine oil, if engine is low on oil fill to proper level.
- Be sure frame is level.
- Check fuel.
- Check for spark.

## TRANSPORTING - OFF ROAD ONLY

*The Wolverine is a compact unit that folds onto itself for easy towing.*

*Follow these steps for transporting the unit.*

## WHEN TOWING DO NOT EXCEED 45 MPH!

### *Firewood Processor Warranty*

#### 1) Introduction To Your Warranty

Warranty registration cards must be completed and returned to Hud-Son Forest Equipment, Inc within 30 days of purchase. Failure to do so 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 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. All processors have a 90-day warranty against manufacturers defects.

#### **WOLVERINE WOOD PROCESSORS**

##### ***Hud-Son Built***

Limited Warranty - 90 days

Weldments/Fixtures/Wedge - 90 days

Gasoline Engine - 2 years- Briggs & Stratton

ROBIN ENGINE - 3 YEAR

Hydraulic System - Motor, Pumps,

Cylinder, Valve, Hoses, Fittings - 6 months

Electric Clutch - 6 months with manufacturers approval

Electrical System - 6 months

Bearings/Shafts - 6 months

Winch - 6 months

Trailer Axles - 6 months

If a 6-way wedge is purchased, the splitting system/hydraulic cylinder & weldment/fixtures warranty is void.

Saw chain, saw bar, saw chain

sprocket, hydraulic oil and hydraulic filter are not covered under warranty

3) Fuel system problems caused by the failure to use fresh fuel (less than 30 days old) - Gummy deposits, varnish and/or corrosion due to old gas are not covered by warranty. Since we have no control over the quality of gasoline and we know it deteriorates with age, the warranty defines "fresh" fuel as less than 30 days old.

#### 4) How A Warranty Claim Is Handled.

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

- a) Customer will call the Dealer/Distributor and acknowledge the problem.
- b) If the problem can be solved in the field, new parts will be shipped, invoiced and paid for. A credit will be given upon return of the old parts if covered by warranty.
- c) If requested, parts to be replaced must be returned at owner's expense within thirty (30) days to receive credit.
- d) If the problem is deemed too severe to be fixed in the field by the customer, then the customer must bring the processor, at their own expense,



to the closest Hud-Son Dealer/Distributor for repair. If the Dealer/Distributor is not qualified for the repair job, then the equipment must be returned to Hud-Son Forest Equipment, Inc. at the customer's expense.

e) 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 it by Hud-Son Forest Equipment, Inc. staff and/or Dealer/Distributor staff.

f) Any modification to the processor that is performed by any personnel other than Hud-Son Forest Equipment, Inc direct staff voids the warranty.

g) Any parts replaced without discretion of the Dealer/Distributor voids the warranty on the part the customer is replacing and no reimbursements will be made. If a 6-way wedge is purchased, the splitting system/hydraulic cylinder & weldment/fixtures warranty is void.

h) Parts purchased by the customer from an outside source without prior approval by Hud-Son Forest Equipment, Inc will not be reimbursed.

i) Always call your servicing dealer first! Dealers/Distributors carry parts and are very knowledgeable with the inner workings of your processor. Remember that modifying your processor or using parts that are not approved by Hud-Son Forest Equipment, Inc can void your warranty.

## **LUBRICATION ORDER**

- **GREASE ALL FITTINGS ON RAM SLIDES [4]**
- **GREASE ALL JACK SHAFT BEARINGS AND SAW SHAFT BEARINGS EVERY 40 HRS.**
- **CHANGE ENGINE OIL AS PER DIRECTED IN THE ENGINE OWNERS MANUAL**
- **CHANGE HYDRAULIC FILTER AND OIL AS PER STICKER ON THE HYDRAULIC TANK**
- **ALWAYS CHECK BAR OIL LEVEL BEFORE OPERATING - USE WINTER GRADE BAR OIL IN COLD WEATHER / SUMMER GRADE OIL IN HOT WEATHER CONDITIONS.**
- **USE OIL CAN TO OIL WINCH SLIDES WITH REGULAR 30 WT MOTOR OIL. HYDRAULIC OIL LEVEL IS 3" FROM THE TOP OF THE TANK. NOT THE FROM THE TOP OF THE FILL SPOUT.**

**Wolverine**

**Hydraulic Oil (AW32) - Filter (U3L3FE- Belts (5L400) (5L410)**

## **MAINTENANCE FOR CLUTCH**

- Most clutch parts do not require maintenance and can not be replaced.
- Bearings are sealed for life of clutch.
- Armature, rotor, and brake wear evenly and cannot be replaced individually.
- Coil cannot be removed.

## **ADJUSTMENT FOR WEAR**

- All Ogura one-piece clutches are adjusted at factory. (no initial adjustment required)
- As adjustable clutches wear, they can be re-gapped to extend overall life.
- If clutch fails to pull in or will not continue to pull in when hot, air gap may need adjustment.
- To make adjustments, you will need: Factory setting is 0.016.
- 0.015” - 0.022” feeler gauge
- 9/16” open-end wrench
- Identify clutch model from label located on back of field.
- There are three inspection slots on brake shroud.
- Place feeler gauge in slot between armature and rotor.
- Slowly tighten brake nut until armature and rotor contact feeler gauge.

## **CONNECTING POWER**

- Turn on PTO switch to verify clutch pulls in - clutch will make “click” sound at engagement.
- You do not have to have the engine on or running to test.
- Be sure power is connected and fuse is no burned out.

# MAINTENANCE NOTES

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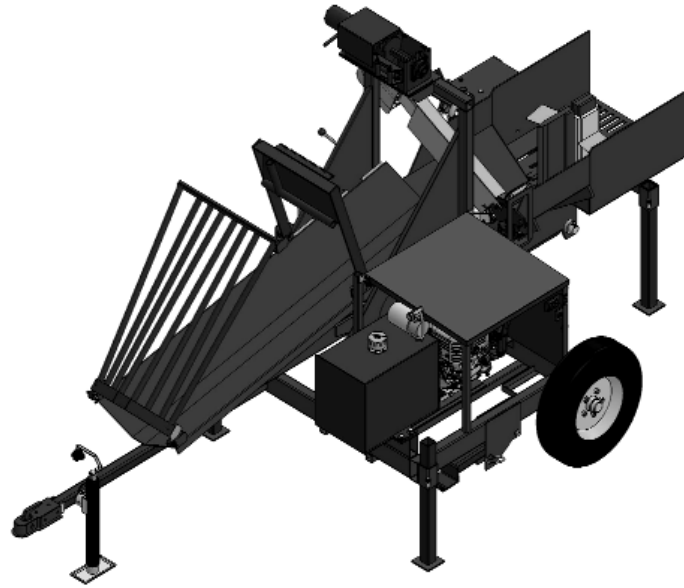
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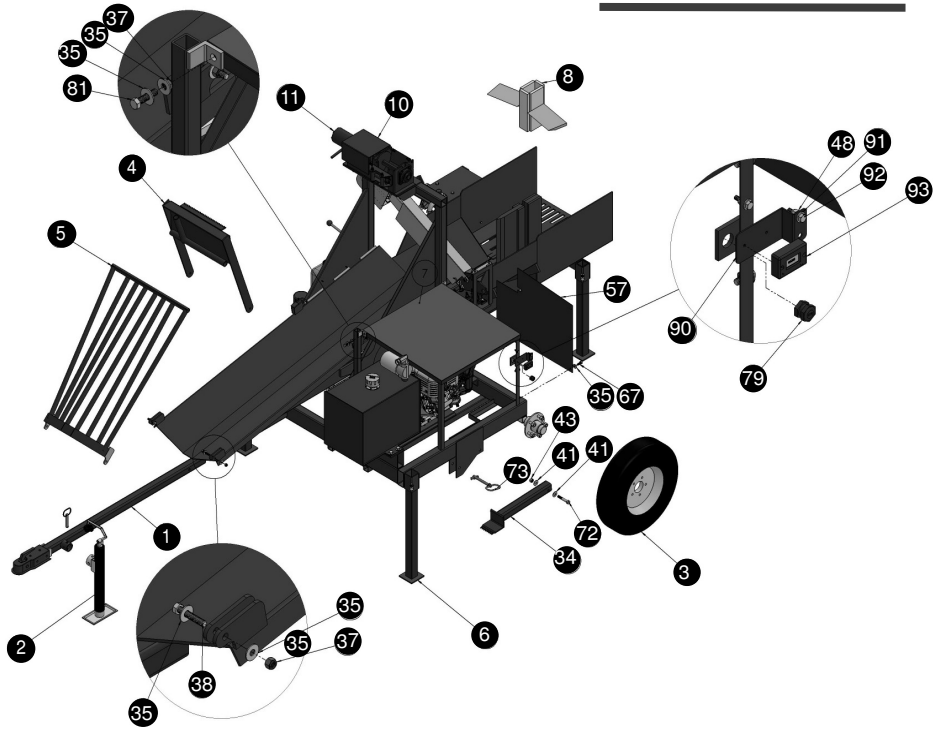
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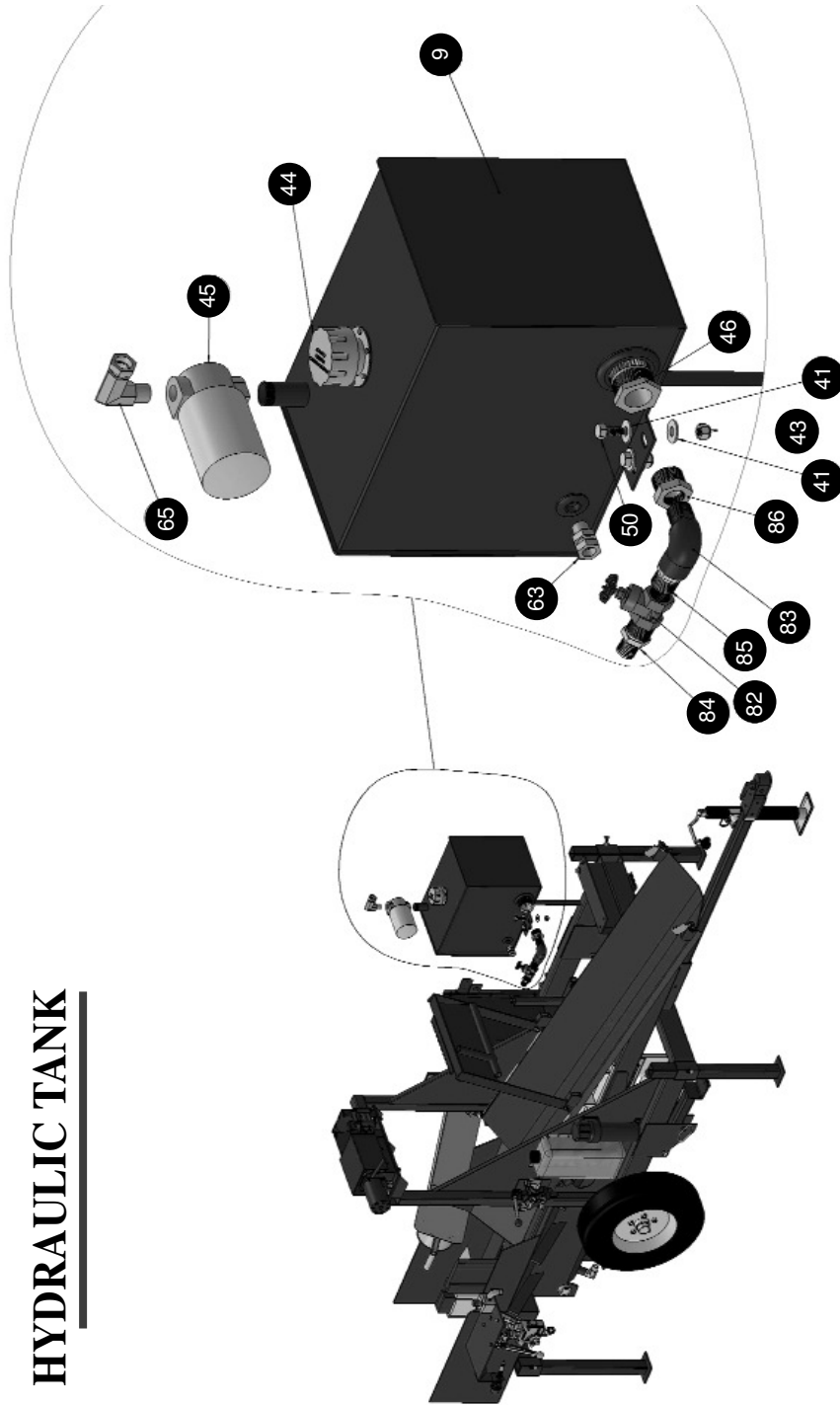
# WOLVERINE FULL ASSEMBLY



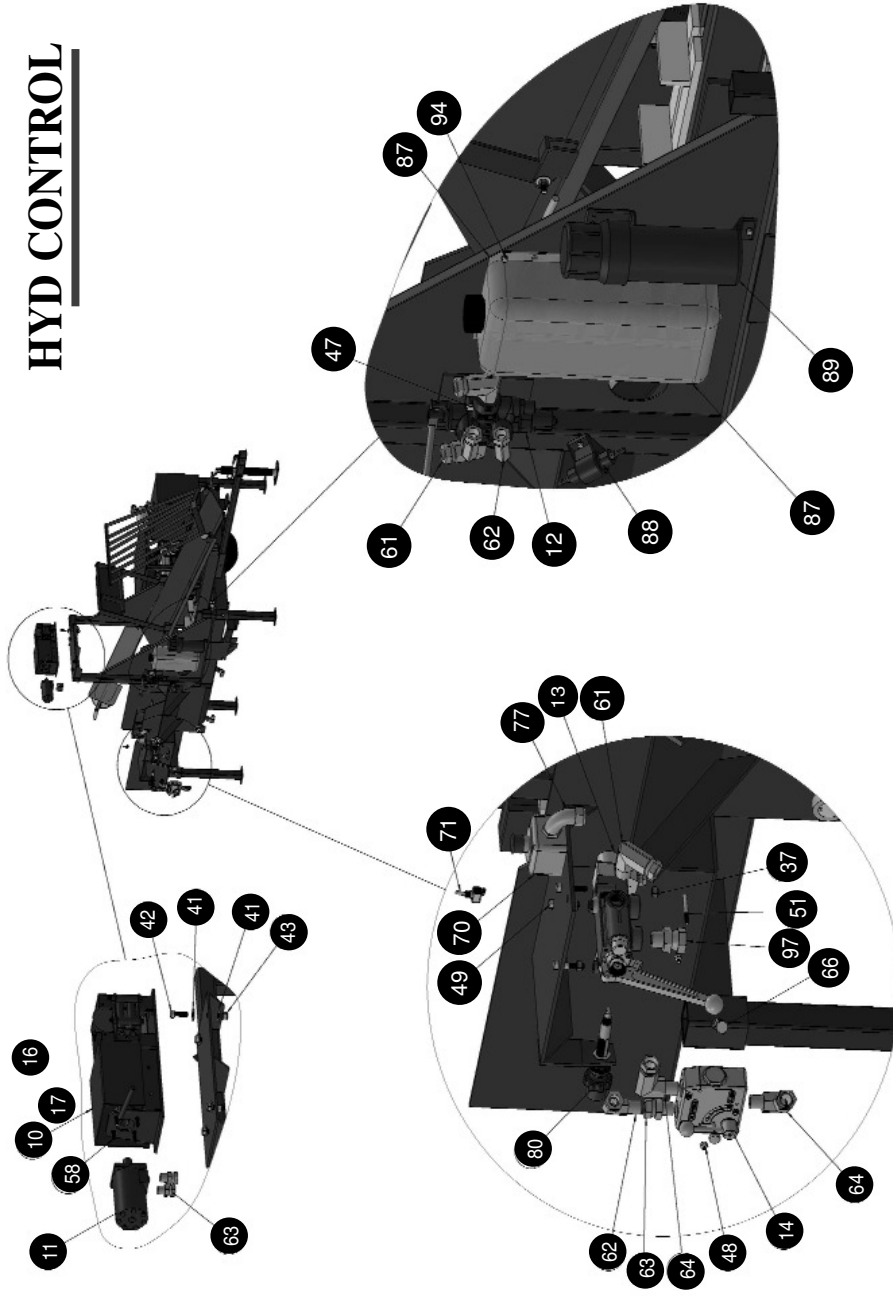
## EXTERIOR PARTS



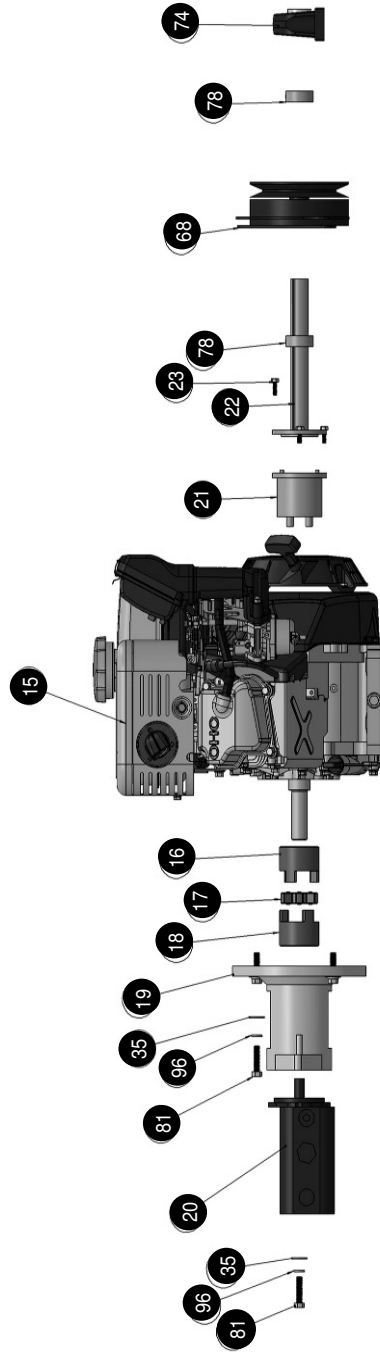
# HYDRAULIC TANK



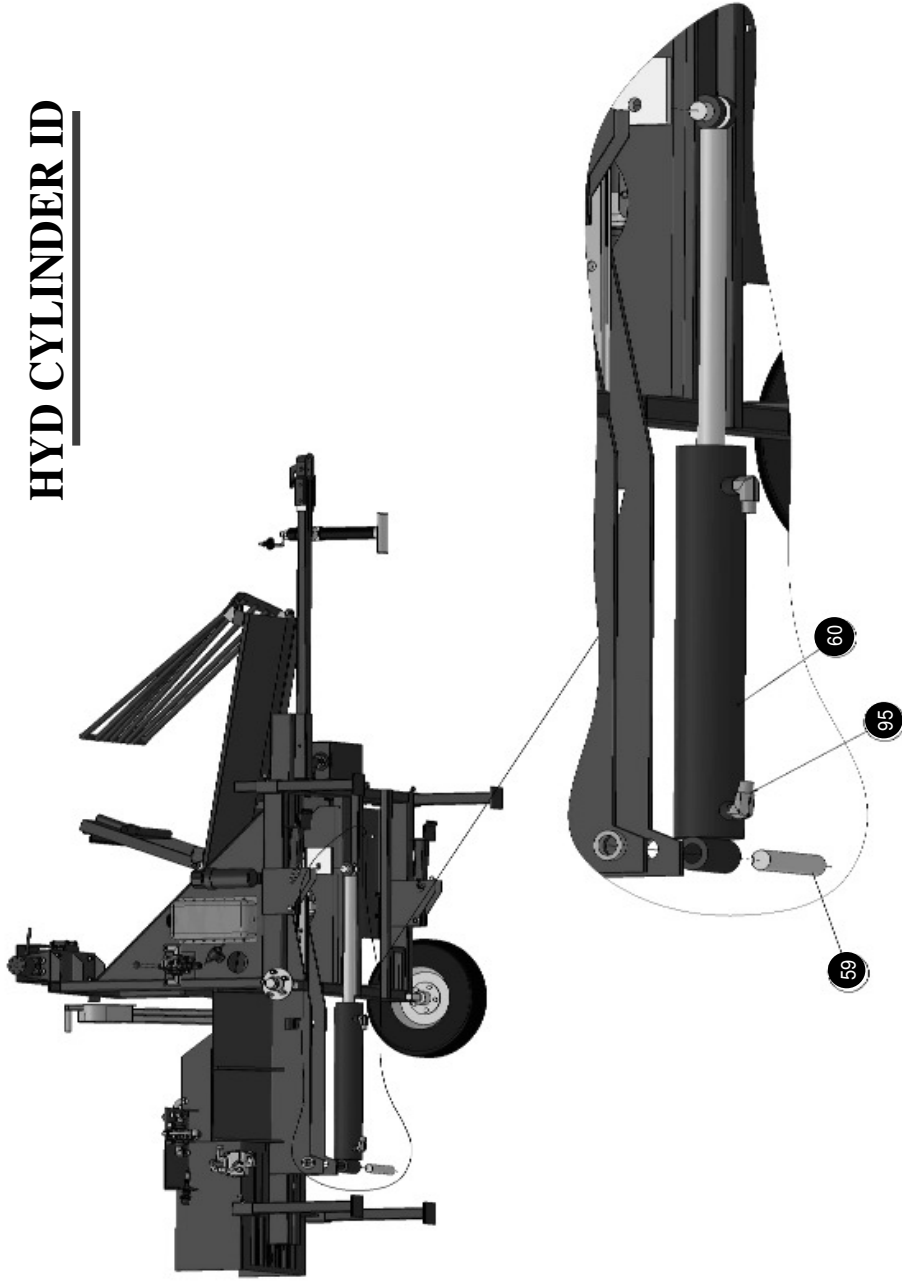
# HYD CONTROL



# ENGINE ID

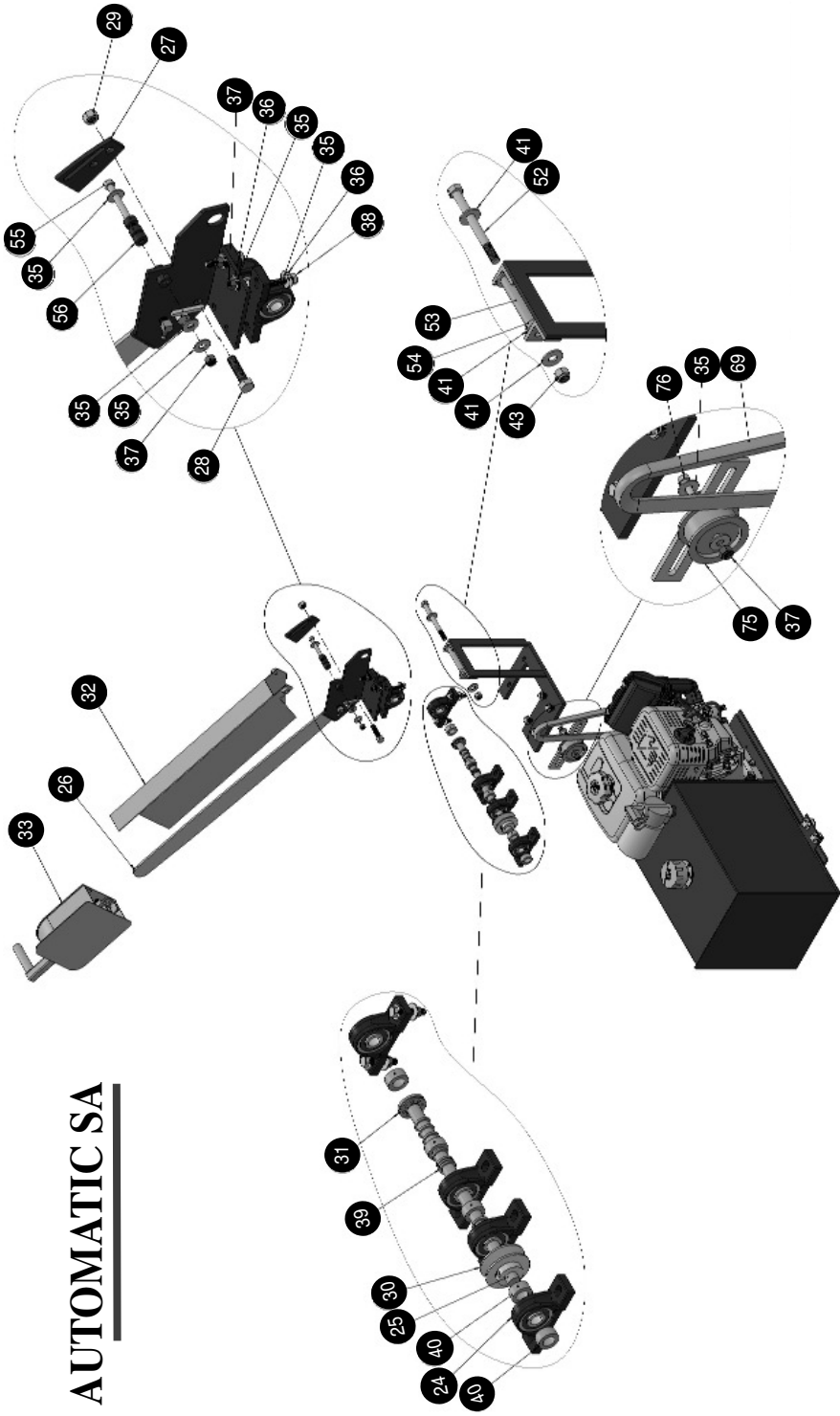


## HYD CYLINDER ID

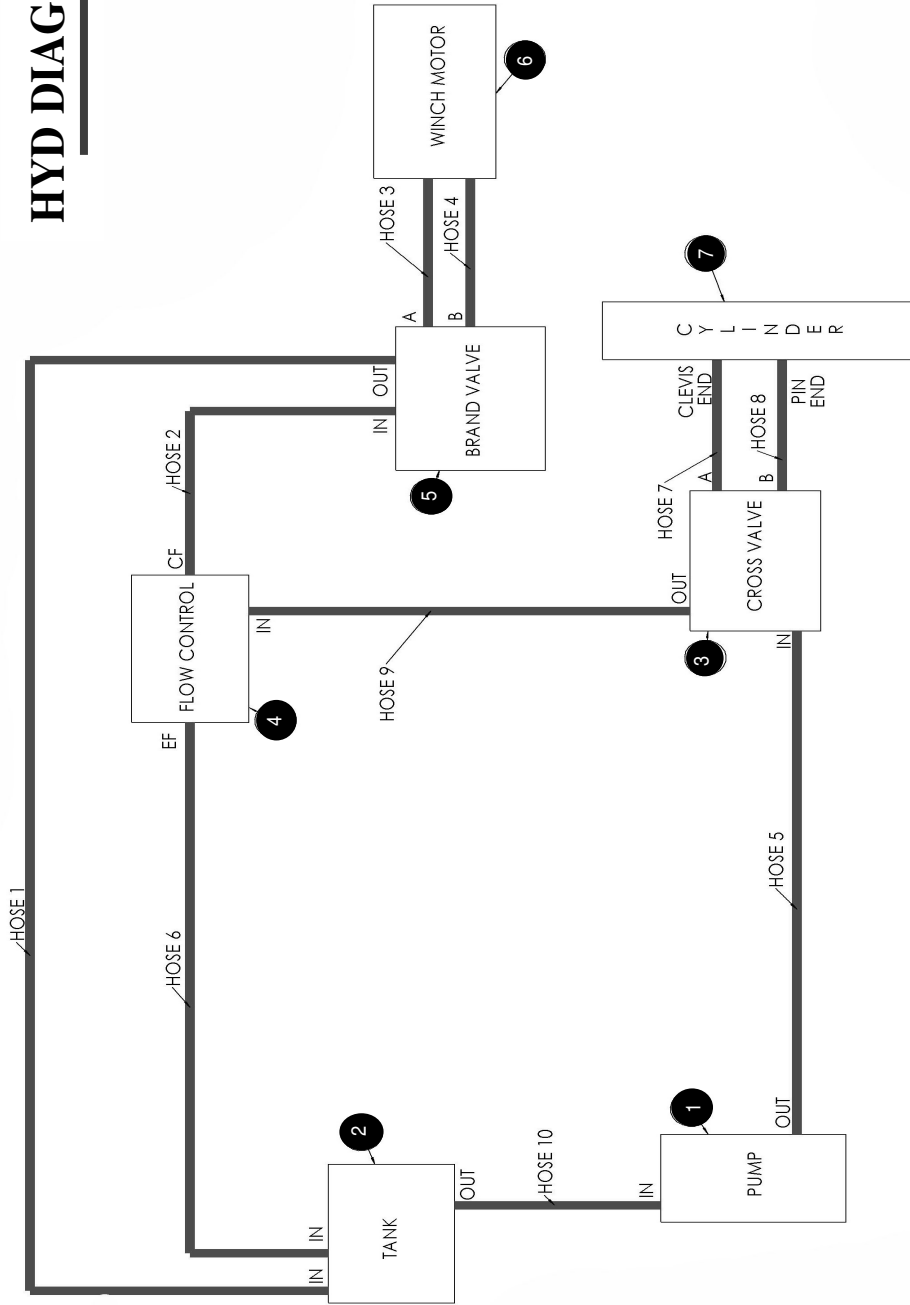




# AUTOMATIC SA



# HYD DIAGRAM



Wolverine-A Hose Kit					
HOSE ASSEMBLIES					
Description	LENGTH INCHES	SIZE	HOSE	END	END
1/2" Hose - 1	70	1/2"	GH781-08	1AA8FJ8	1AA8FJ8
1/2" Hose - 2	57	1/2"	GH781-08	1AA8FJ8	1AA8FJ8
1/2" Hose - 3	25	1/2"	GH781-08	1AA8FJ8	1AA8FJ8
1/2" Hose - 4	23	1/2"	GH781-08	1AA8FJ8	1AA8FJ8
3/4" Hose - 5	131	3/4"	GH781-12	1AA12FJ12	1AA12FJ12
3/4" Hose - 6	127	3/4"	GH781-12	1AA12FJ12	1AA12FJ12
3/4" Hose - 7	35	3/4"	GH781-12	1AA12FJ12	1AA12FJ12
3/4" Hose - 8	30	3/4"	GH781-12	1AA12FJ12	1AA12FJ12
3/4" Hose - 9	17	3/4"	GH781-12	1AA12FJ12	1AA12FJ12
1" Hose - 10 (Suction)	7	1"	EHP500-16	NONE	NONE

**WOLVERINE A HYDRAULIC COMPONENTS**

ITEM NO.	PART NO.	DESCRIPTION
1	HYD-08-22-16-12-10	22 GPM. PUMP
2	PRO-04-01-15	15 GAL. HYD. TANK
3	HYD-03-30-12	LOG SPLITTER VALVE
4	HYD-02-08-16	FLOW CONTROL VALVE
5	HYD-03-18-12	WINCH CONTROL VALVE
6	HYD-04-256-H4-08	"HYD. MOTOR (231 CC DIS-PLACEMENT)"
7	HYD-01-64-24-24	HYDRAULIC CYLINDER 4" X 24"

ADAPTERS/ACCESSORIES		
Description	Part Number	Quantity
1/2" MJIC X 1/2" MNPT	5205X08X08	3
3/4" MJIC X 1/2" MNPT	5205X12X08	2
3/4" MJIC X 3/4" MNPT, 90*	F5405X12X12	4
1/2" MJIC X 3/4" MNPT, 90*	F5405X08X12	2
1/2" MJIC X 1/2" MNPT, 90*	F5405X08X08	3
3/4" MJIC X 1/2" MNPT, 90*	F5405X12X08	2
3/4" MJIC X 3/4" MJIC X 1/2" FNPT, Tee	F5655X12X12X08	1
3/4" MNPT X 3/4" FJIC Swivel	9100X12X12	1
Pressure Guage 0-5,000 psi Liquid Filled	GLS455	1
T-Bolt Clamp	STBC150	2

<b>Item No.</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
1	PRO-07-01-01	TRAILER TONGUE WELDMENT	1
2	TRA-02-015	SWIVEL JACK	1
3	TIR-01-175-80-13	TRAILER TIRE - 24"	2
4	PRO-03-01-01	LOG HOLD DOWN	1
5	PRO-02-01	LOG CHUTE TAIL WELDMENT	1
6	PRO-01-01-01	WOLVERINE	4
7	PRO-06-01-04	COVER	1
8	PRO-11-04-01	WOLVERINE SPLITTER ASSEMBLY	1
9	PRO-04-01-15	WOLVERINE HYD. TANK	1
10	PRO-05-01	WINCH HOUSING WELDMENT	1
11	HYD-04-250-H4-08	HYD. MOTOR 14.09(CIN.) (231CC) DISPLACEMENT	1
12	HYD-03-18-12	WINCH CONTROL VALVE	1
13	HYD-03-30-12	LOG SPLITTER VALVE	1
14	HYD-02-08-16	FLOW CONTROL VALVE	1
15	ENG-02-14	SUBARU 14HP ENGINE	1
16	COU-03-L100-16	1" LOVEJOY	1
17	COU-06-L100-16	L100 SPIDER	1
18	COU-03-L100-10	L100 LOVE JOY 5/8" BORE	1
19	ENG-05-011	HYD. PUMP MOUNT	1
20	HYD-08-22-16-12-10	22 GPM HYD. PUMP	1
21	ENG-05-006	SUBARU COUPLER STUB SHAFT	1
22	ENG-05-007	SUBARU STUB SHAFT	1
23	HAR-01-04-12	1/4-20 X 3/4" ZHB	4
24	BEA-01-12	3/4" PB BEARING	6
25	SHA-02-14	3/4" X 14" KEYED SHAFTS	1
26	SAW-01-30	30" SAW BAR FOR WOLVERINE A	1
27	PRO-06-01-03	SAW BAR TENSION PLATE	1
28	HAR-01-08-32	1/2-16 x 2 ZHB	2
29	HAR-25-08	1/2 ZHN	2
30	WHE-02-12-26	BK27X3/4" SHEAVE	1
31	SPR-01-12-26	SPROCKET 8 TOOTH CHAIN SAW	1
32	PRO-06-01-01	WOLVERINE SAW COVER WELDMENT	1
33	PRO-06-01-02	WOLVERINE SAW TIP COVER GUARD WELDMENT	1
34	PRO-01-02-01	HOLD DOWN LEG/FOOT	2
35	HAR-50-06-1000-063	3/8 Z FW	65
36	HAR-50-05-875-063	5/16 Z FW	24

37	HAR-29-06	3/8 ZHNN	27
38	HAR-01-06-32	3/8-18 X 2 ZHB	20
39	HAR-55-12-1000-125	3/4"X1" NFW (WILLY WASHER)	8
40	COL-01-12-20	3/4" LOCKING COLLAR	5
41	HAR-50-08-1250-063	1/2 Z FW	24
42	HAR-01-08-24	1/2-13 X 1 1/2" ZHB	4
43	HAR-29-08	Nylock 1/2"-13 Zink finish	9
44	FIL-02-500-NA	FILLER-STRAINER BREATHER CAP ASSEMBLY	1
45	FIL-01-10-20	10 MICRON-20 GPM FILTER ASSYM.	1
46	FIL-02-10-50	10 MICRON 15PSI BYP FILTER ASSY	1
47	HAR-02-04-28	1/4-20 X 1 3/4 X 1 ZHB	3
48	HAR-29-04	Hex Nut Nylock 1/4-20	7
49	HAR-02-06-28	3/8-16 X 1.75" X 1" ZHB	3
50	HAR-01-08-16	1/2-13 X 1" ZHB	4
51	HAR-02-04-40	1/4-18 X 2 1/2 X 3/4 ZHB	2
52	HAR-02-08-88	1/2-13 X 5 1/2" X 1 1/4" ZHB	1
53	WOL-40023	WOLVERINE WINCH ROLLER LONG	1
54	COL-01-08-16	1/2" LOCKING COLLAR	1
55	HAR-02-06-64	3/8-18 X 4 X 1 ZHB	1
56	COL-01-06-10	3/8" LOCKING COLLAR	3
57	PRO-06-01-05	ENGINE ENCLOSURE SIDE	1
58	HAR-01-05-20	5/16-18 X 1 1/4" ZHB	4
59	SHA-01-8.5	PILLOW BLOCK KEY SHAFT	1
60	HYD-01-64-24-24	WELDED HYD CYLINDER 4" BORE X 24" STROKE	1
61	HYD-12MP-08FPX90	12MALE TO 08 FEMALE 90 DEG ELBOW HYD. FITTING	4
62	HYD-08MP-08FPX90	08 MALE TO 08 FEMALE 90 DEG. ELBOW HYD. FITTING	3
63	HYD-08MP-08FP	08 MALE TO 08 FEMALE HYD. FITTING	4
64	HYD-08MP-12FPX90	08 MALE TO 12 FEMALE 90 DEG. ELBOW HYD. FITTING	2
65	HYD-12MP-12FPX90	12 MALE TO 12 FEMALE 90 DEG ELBOW HYD. FITTING"	1
66	HAR-01-08-32	1/2-16 x 2 ZHB	4
67	HAR-01-06-16	3/8-18 X 1 ZHB	5
68	CLU-02-18	1" ELECTRIC CLUTCH	1
69	BEL-01-58-043	5/8X43 V-BELT	1
70	ELE-07-01A	E-STOP ASSEMBLY	1
71	ELE-08-01-B	Switch, SPST, 1/2" Bat Handle, off-(on) 15 amp	1
72	HAR-02-08-48	1/2-13 X 3" X 1.25" ZHB	2
73	PIN-02-08-68	1/2 HITCH PIN W/COTTER	2
74	BEA-01-18	1 1/8" PB BEARING	1
75	WHE-03-06-48-1250	3" FLAT BELT IDLER W/BUSHING	1

76	HAR-02-05-36	5/16-18 X 2 1/4 X 7/8 ZHB	1
77	FIT-06-08X90	1/2"X90 CONNECTOR	1
78	COL-01-18-24	1 1/8" LOCKING COLLAR	2
79	ENG-01-07S	7HP SUBARU ENGINE KEY SWITCH	1
80	CAB-02-06	WOLVERINE THROTTLE CABLE	1
81	HAR-01-06-24	3/8-18 X 1 1/2 ZHB	8
82	FIT-07-16	1" GATE VALVE FITTING	1
83	FIT-06-16X90	1" BLK IRON STREET ELBOW	1
84	HYD-16MP-16B	16MP-16BARBED HOSE FITTING	1
85	HYD-16MP-16MP	16MP-16MP HYD FITTING	1
86	HYD-20MP-16FP	20MP-16FP HYD FITTING	1
87	TAN-01-6Q	6QT. PROCESSOR LUBETANK	1
88	PUM-002	SAW BAR LUBE TANK PUMP	1
89	TAN-03-001	OPERATORS MANUAL TUBE	1
90	PRO-06-01-06	TACH MOUNT	1
91	HAR-50-04-625-063	1/4 Z FW	4
92	HAR-01-04-16	1/4-20 x 1" ZHB	2
93	ENG-05-010	ENGINE TACHOMETER	1
94	HAR-76-#8-16	5/16-18 X 1 1/4" ZHB	8
95	HYD-12MP-12MPX90	12MALE TO 12MALE 90DEG ELBOW HYD. FITTING	2
96	HAR-56-06-680-094	3/8 Z SW	6
97	HYD-12MP-12FP	08 MALE TO 12 FEMALE HYD. FITTING	2



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