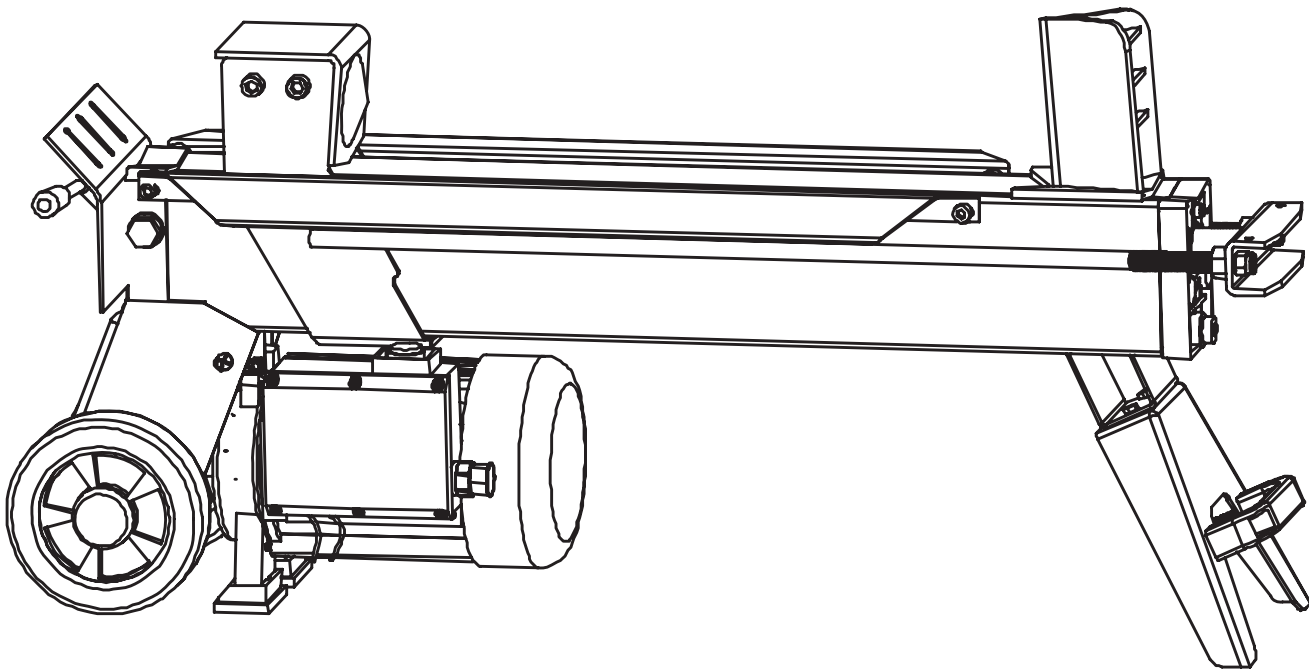




5 Ton Log Splitter







MODEL: LS5T-52A



WARNING! To Reduce The Risk Of Injury, User
Must Read And Understand Instruction Manual.

FOR SERVICE CALL: 888-896-6881
PARA SERVICIO LLAME: 888-896-6881

SAFETY WARNINGS & CAUTIONS

SAFETY WARNINGS & INSTRUCTIONS	SYMBOL AFFIXED TO THE MACHINE
<p>● UNDERSTAND YOUR LOG SPLITTER</p> <p>Read and understand the owner's manual and labels affixed to the log splitter. Learn its application and limitations as well as the specific potential hazards peculiar to it.</p> <p>● DRUGS, ALCOHOL AND MEDICATION</p> <p>Do not operate the log splitter while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.</p> <p>● AVOID DANGEROUS CONDITIONS</p> <p>Put the log splitter on a 23.6 - 29.5in high, stable, flat, and level work bench where there is plenty of room for handling, and help the operator stay alert. Bolt the log splitter to the work surface if it tends to slip, walk, or slide.</p> <p>Keep your work area clean and well lighted. Cluttered areas invites injuries.</p> <p>Do not use the log splitter in wet or damp areas or expose it to rain.</p> <p>Do not use it in areas where fumes from paint, solvents or flammable liquids pose a potential hazard.</p>	
<p>● INSPECT YOUR LOG SPLITTER</p> <p>Check your log splitter before turning it on. Keep guards in place and in working order. Form a habit of checking to see that keys and adjusting wrenches are removed from tool area before turning it on. Replace damaged, missing or failed parts before using it.</p>	
<p>● DRESS PROPERLY</p> <p>Do not wear loose clothing, gloves, neckties or jewelry (rings, wrist watches). They can be caught in moving parts.</p> <p>Protective electrically non conductive gloves and non-skid footwear are recommended when working. Wear protective hair covering to contain long hair, preventing it from get caught in machinery.</p>	
<p>● PROTECT YOUR EYES AND FACE</p> <p>Any log splitter may throw foreign objects into the eyes. This can cause permanent eye damage. Always wear safety goggles. Everyday eyeglasses have only impact resistant lenses. They are not safety glasses.</p> <p>Do not put the log splitter on the ground for operations. This is awkward operating position that the operator has to bring his face close to the machine, and thus risks being struck by wood chips or debris.</p>	

● EXTENSION CORDS

Improper use of extension cords may cause inefficient operation of the log splitter which can result in overheating. Be sure the extension cord is no longer than 33feet and its section is no less than 2.5mm² to allow sufficient current flow to the motor.

Avoid use of free and inadequately insulated connections. Connections must be made with protected material suitable for outdoor use.

● AVOID ELECTRICAL SHOCK

Check that the electric circuit is adequately protected and that it corresponds with the power, voltage and frequency of the motor. Check that there is a ground connection, and a regulation differential switch upstream.

Ground the log splitter. Prevent body contact with grounded surfaces: pipes, radiators, ranges, and refrigerator enclosures.

Never open the pushbutton box on the motor. Should this be necessary, contact a qualified electrician.

Mark sure your fingers do not touch the plug's metal prongs when plugging or unplugging the log splitter.

● KEEP VISITORS AND CHILDREN AWAY

The log splitter must be always operated by one person only. Other people should keep a safe distance from the work area, especially when the log splitter is under operations. Never use another people to help you with freeing jammed log.



● INSPECT YOUR LOG

Make sure there are no nails or foreign objects in logs to be split. The ends of the logs must be cut square. Branches must be cut of flush with the trunk.

● DON'T OVERREACH

Floor must not be slippery.

Keep proper footing and balance at all times.

Never stand on log splitter. Serious injury could occur if the tool is tipped or if the cutting tools is unintentionally contacted. Do not store anything above or near the log splitter where anyone might stand on the tool to reach them.

● AVOID INJURY FROM UNEXPECTED ACCIDENT

Always pay full attention to the movement of the log pusher.

Do not attempt to load the log on until the log pusher has stopped.

Keep hands out of the way of all moving parts.



● PROTECT YOUR HANDS

Keep your hands away from splits and cracks which open in the log; They may close suddenly and crush or amputate your hands.

Do not remove jammed logs with your hands.



● DON'T FORCE TOOL

It will do a better and safer job at its design rate. Never try to split logs larger than those indicated in the specifications table. This could be dangerous and may damage the machine.

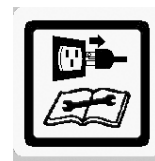
Don't use log splitter for a purpose for which it was not intended.

● NEVER LEAVE TOOL RUNNING UNATTENDED

Don't leave tool until it has come to a complete stop.

● DISCONNECT POWER

Unplug when not in use, before making adjustments, changing parts, cleaning, or working on the log splitter; Consult technical manual before servicing.



● PROTECT THE ENVIRONMENT

Take used oil to an authorized collection point or follow the stipulations in the country where the log splitter is used.

Do not discharge into drains, soil or water.



● MAINTAIN YOUR LOG SPLITTER WITH CARE

Keep the log splitter clean for best and safest performance.

● MAKE THE WORKSHOP CHILDPROOF

Lock the shop. Disconnect master switches. Store the log splitter away from children and others not qualified to use it.

TABLE OF CONTENTS

Safety Warnings & Cautions	2
Application Conditions	5
Specifications	5
Electrical Requirements	5
Set up and Preparation for Operation	6
Wiring Diagram	7
Plumbing Diagram	7
Log Splitter Operation	8
Freeing a Jammed Log	9
Replacing Hydraulic Oil	10
Sharpening Wedge	11
Trouble Shooting	11
Parts Schematic	12

APPLICATION CONDITIONS

This log splitter is a home use model. It is designed for operating under ambient temperatures between +66.6°F and 129.6°F and for installation at altitudes no more than 3300feet above M.S.L. The surrounding humidity should less than 50% at 129.6°F. It can be stored or transported under ambient temperatures between -102.6°F and 156.6°F.

SPECIFICATIONS

Model Number		LS5T-37-A	LS5T-52
Motor		120V~ 60Hz 1500W	
Log Capacity	Diameter	2 ~ 10 in	
	Length	15 in	20.5 in
Splitting Force		5 t	
Hydraulic Pressure		20Mpa	
Hydraulic Oil Capacity		2.4 L	4.2L
Overall Size	Length	30.7 in	37 in
	Width	10.24 in	
	Height	19 in	
Weight		83.6 lbs (38 kg)	96.8 lbs (44 kg)

The diameter of the log is indicative – a small log can be difficult to split when it has knobs or a particularly tough fiber. On the other hand, it may not be difficult to split logs with regular fibers even if its diameter exceeds the max. figure indicated above.

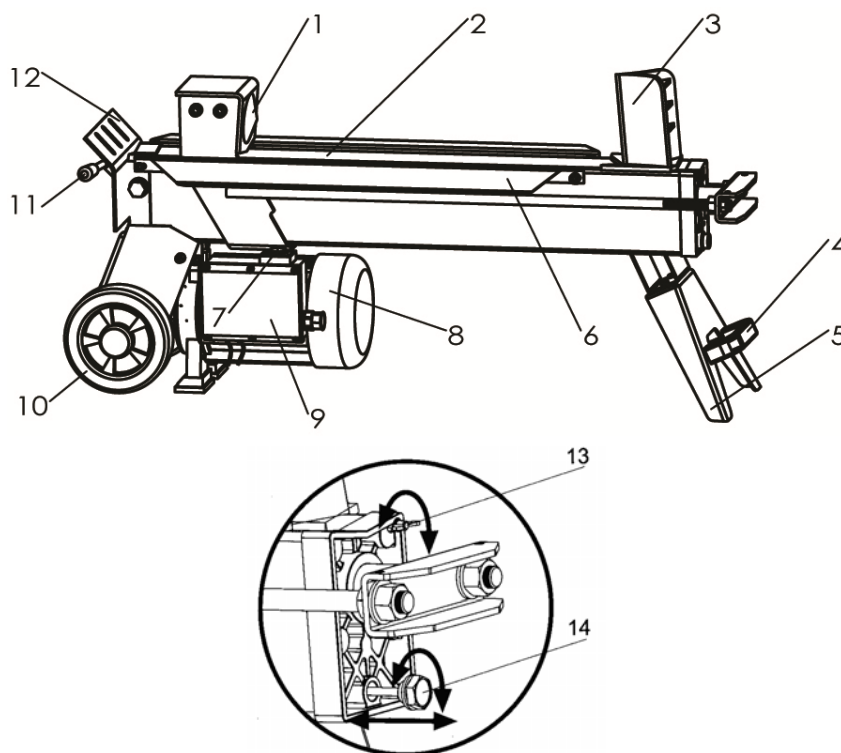
ELECTRICAL REQUIREMENTS

Connect the main leads to a standard 120V \pm 10% (60Hz \pm 1Hz) electrical supply which has protection devices of under-voltage, over-voltage, over-current as well as a residual current device (RCD) which maximum residual current rated at 0.03A.

SET UP AND PREPARATION FOR OPERATION

1. Bolt the Support Leg to the Log Splitter, lift the log splitter by the handles at both ends and place it on a 23.6 - 29.5in high, stable, flat and level work surface.
2. Familiarize yourself with the controls and features of this log splitter in the illustrations.

1. Log Pusher
2. Work Table
3. Wedge
4. Lift Handle
5. Support Leg
6. Log Retaining Plates
7. Switch
8. Motor
9. Pushbutton Box
10. Wheels for Minor Moving ONLY.
11. Hydraulic Control Lever
12. Control Lever Guard
13. Bleed Screw
14. Oil Drain Bolt w/ Dipstick



Before operating the log splitter, the Bleed Screw should be loosened by some rotations until air can go in and out of the oil tank smoothly.

Air flow thru the Bleed Screw hole should be detectable during the log splitter is under operations.

Before moving the log splitter, make sure the Bleed Screw is tightened to avoid oil leaking from this point.



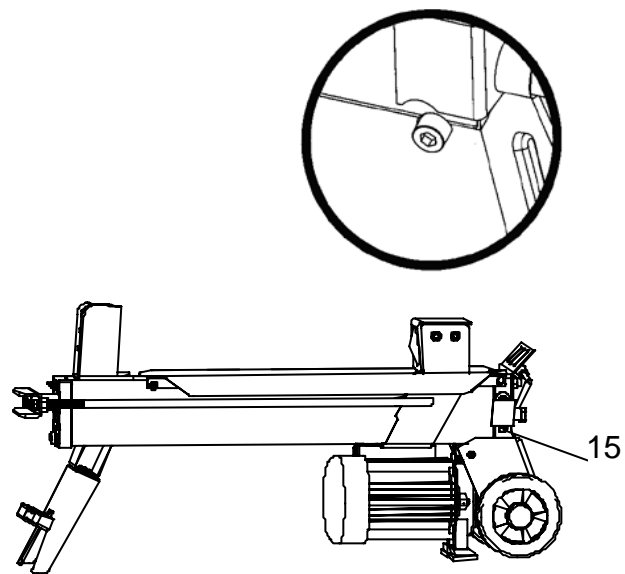
FAILED TO LOOSEN THE BLEED SCREW WILL KEEP THE SEALED AIR IN HYDRAULIC SYSTEM BEING COMPRESSED AFTER BEING DECOMPRESSED. SUCH CONTINUOUS AIR COMPRESSION AND DECOMPRESSION WILL BLOW OUT THE SEALS OF THE HYDRAULIC SYSTEM AND CAUSE PERMANT DAMAGE TO THE LOG SPLITTER.

15. Max Pressure Limiting Screw

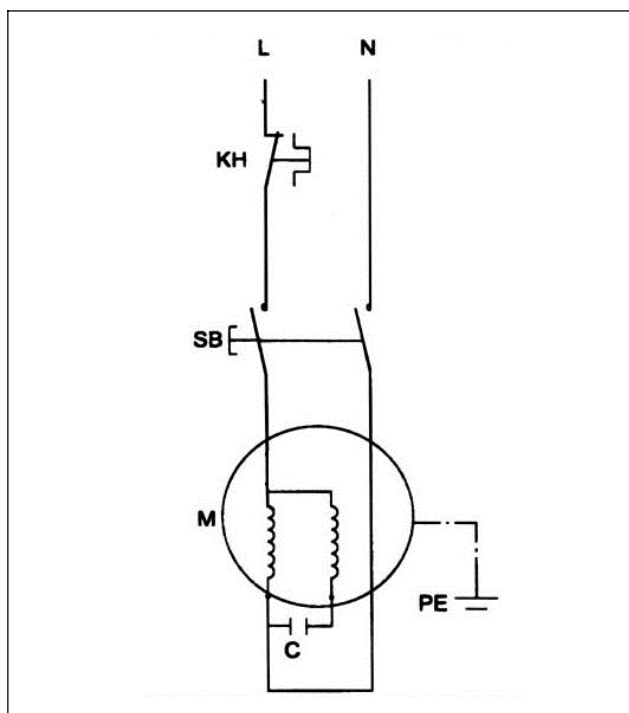
 **DO NOT ADJUST THE MAX PRESSURE LIMITING SCREW!**

Max pressure was set before the log splitter ex work and the max pressure limiting screw is sealed with glue to ensure the log splitter works under pressure no more than 5 tons. The setting was done by qualified mechanic with professional instruments.

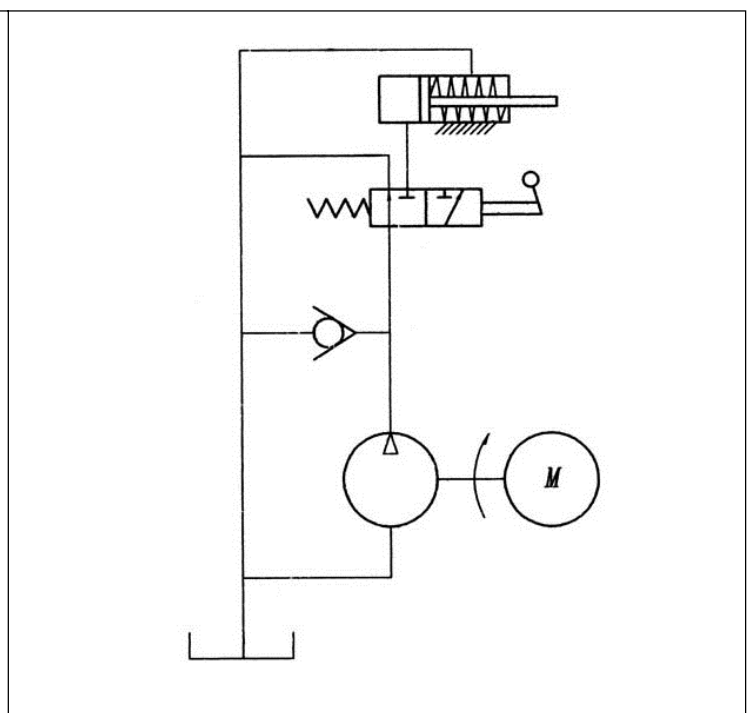
Unauthorized resetting will cause the hydraulic pump fail to output enough splitting pressure or *RESULT IN SERIOUS INJURY AS WELL AS DAMAGE TO THE MACHINE.*



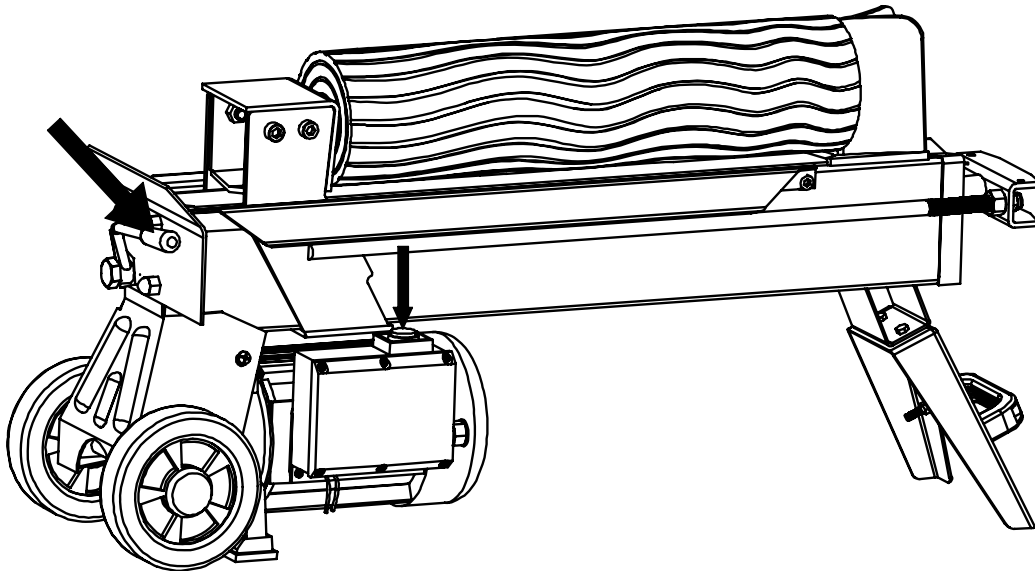
WIRING DIAGRAM



PLUMBING DIAGRAM



LOG SPLITTER OPERATION



This log splitter is equipped with “ZHB” control system that requires to be operated by both hands of the user – Left hand controls the hydraulic control lever while right hand controls the pushbutton switch. The log splitter will freeze upon absence of either hand. Only after both hands release the controls, the log pusher starts to return backward to the starting position.

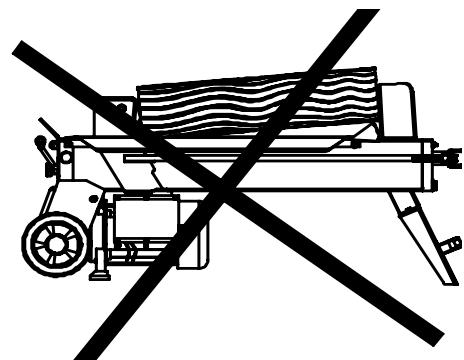
Trigger type lock-out device is adopted to avoid accidental Hydraulic Control Lever pushdown. To operate the Hydraulic Control Lever, draw the Trigger backward with the index finger before push the Hydraulic Control Lever forward.



Never force the log splitter for more than 5 seconds by keeping pressure on it to split excessively hard wood.

After this time interval, the oil under pressure will be overheated and the machine could be damaged. For such extremely hard log, rotate it by 90° to see whether it can be split in a different direction. In any case, if you are not able to split the log, this means that its hardness exceeds the capacity of the machine and thus that log should be discarded to protect the log splitter.

Always set logs firmly on the log retaining plates and work table. Make sure logs will not twist, rock or slip while being split. Do not force the blade by splitting the log on the upper part. This will break the blade or damage the machine.

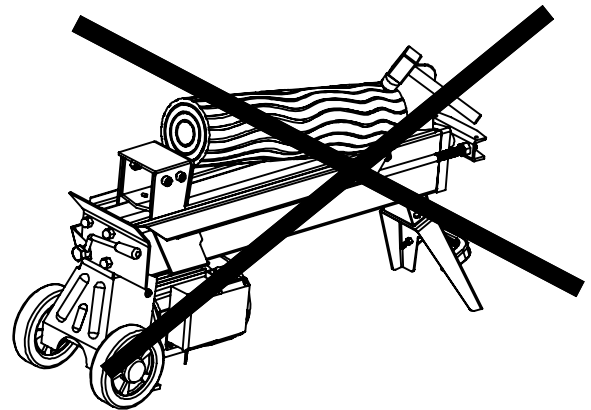
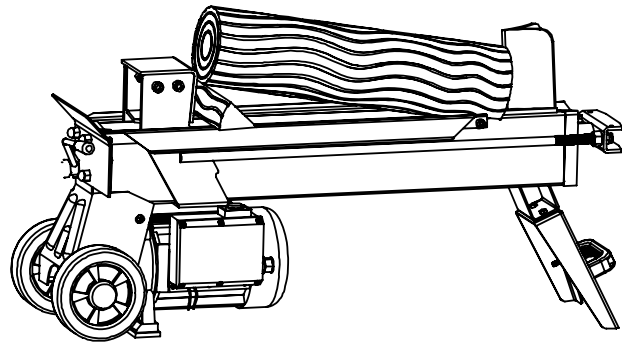


Break log in the direction of its growing grain. Do not place log across the log splitter for splitting. It may be dangerous and may seriously damage the machine.

Do not attempt to split 2 pieces of logs at the same time. One of them may fly up and hit you.

FREEING A JAMMED LOG

- Release both controls.
- After the log pusher moves back and completely stops at its starting position, insert a wedge wood under the jammed log.
- Start the log splitter to push the wedge wood to go completely under the jammed one.
- Repeat above procedure with sharper slope wedge woods until the log is completely freed.



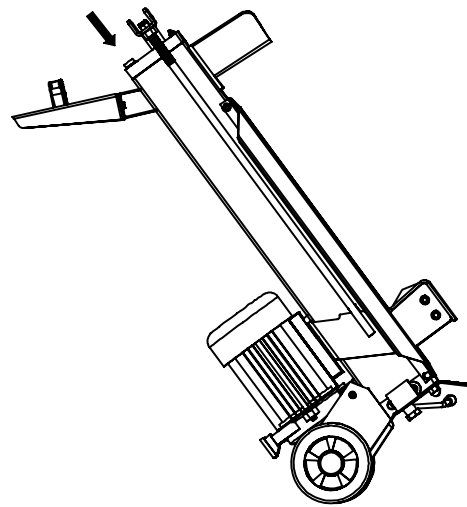
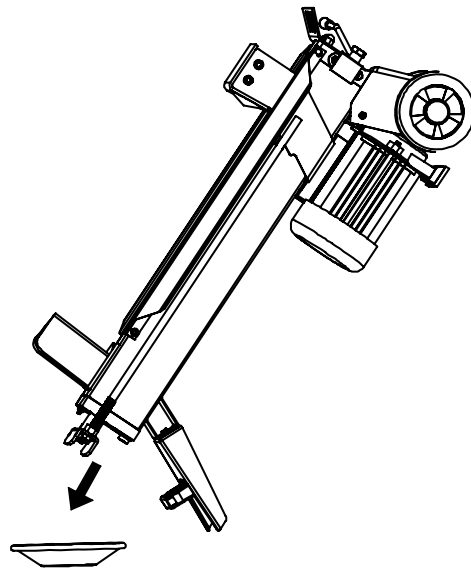
Do not try to knock the jammed log off. Knocking about will damage the machine or may launch the log and cause accident.

REPLACING HYDRAULIC OIL

Replace the Hydraulic oil in the log splitter after every 150 hours of use. Take following steps to replace it.

- Make sure all moving parts stops and the log splitter is unplugged.
- Unscrew Oil Drain Bolt with Dipstick to remove it.
- Turn the log splitter on the Support Leg side over an 4 liters capacity container to drain the hydraulic oil off.
- Turn the log splitter on the the motor side.
- Refill fresh hydraulic oil at the volume as per the hydraulic oil capacity of a particular model indicated in above specifications table.
- Clean the surface of Dipstick on the Oil Drain Bolt and put it back into the oil tank while keep the log splitter vertically.
- Make sure the level of the refilled oil is just between 2 grooves around the Dipstick.
- Clean the Oil Drain Bolt before thread them back. Make sure they are tightened to avoid leakage before place the log splitter horizontally.

Periodically check oil level to ensure it is between 2 grooves around the Dipstick. Upon Lower oil level, oil refilling is required.



Following hydraulic oils or equivalent are recommend for the log splitter's hydraulic transmission system:

SHELL Tellus 22

MOBIL DTE 11

ARAL Vitam GF 22

BP Energol HLP-HM 22

SHARPENING WEDGE

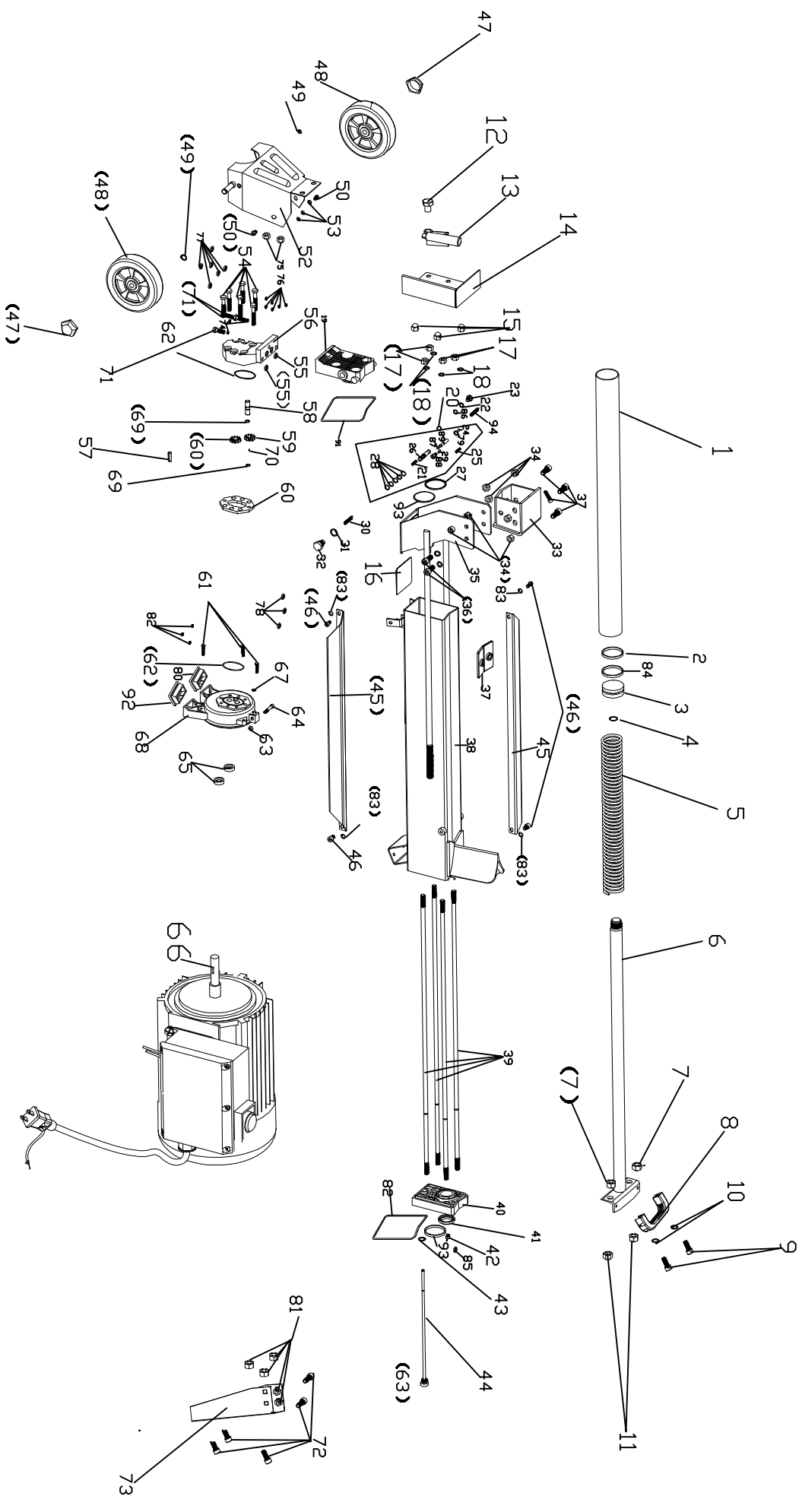
After using the log splitters for some time, sharpen the wedge of the log splitter using a fine-toothed file and smooth any burrs or crushed area along the cutting edge.

TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	REMEDY SUGGESTED
Motor Stops to Start	Overload Protection Device disengaged to protect the log splitter from being damaged	Contact a qualified Electrician for opening the Pushbutton Box to engage the Overload Protection Device inside *
Fails to split logs	Log is improperly positioned	Refer to " Log Splitter Operation" section for perfect log loading.
	The sizes or hardness of the log exceeds the capacity of the machine	Reduce the log sizes before splitting it on the log splitter
	Wedge cutting edge is blunt	Refer to " Sharpening Wedge " section to sharpen the cutting edge.
	Oil leaks	Locate leak(s) and contact the dealer
	Unauthorized adjustment was made on Max. Pressure Limiting Screw. Lower max pressure rating was set.	Contact the dealer.
The log pusher moves jerkily, taking unfamiliar noise or vibrating a lot	Lack of hydraulic oil and excessive air in the hydraulic system.	Check oil level for possible oil refilling. Contact the dealer.
Oil leaks around cylinder ram or from other points.	Air sealed in hydraulic system while operating.	Loosen Bleed Screw by 3 ~ 4 rotations before operating the log splitter
	Bleed Screw is not tightened before moving the log splitter.	Tighten the Bleed Screw up before moving the log splitter.
	Oil Drain Bolt with Dipstick is not tight.	Tighten the Oil Drain Bolt with Dipstick.
	Hydraulic Control Valve Assembly and / or seal(s) worn	Contact the dealer



Waste electrical products should not be disposed of with household waste, please recycle where facilities exist, check with your local authority or retailer for recycling advice."



No	Name in English	quantity (pcs)	No	Name in English	quantity (pcs)
SP-LS05-01-WG	Oil cylinder	1	SP-LS05-29-WG	Small shaft inner sleeve	1
SP-LS05-02-WG	ST type ring55	1	SP-LS05-30-WG	small spring	1
SP-LS05-03-WG	Piston	1	SP-LS05-31-WG	Gasket 16	1
SP-LS05-04-WG	Gasket ring 23.6x3.55	1	SP-LS05-32-WG	plug M16X1.5	1
SP-LS05-05-WG	Big spring	1	SP-LS05-33-WG	pushing plate	1
SP-LS05-06-WG	Piston rod	1	SP-LS05-34-WG	Locknut M10	6
SP-LS05-07-WG	Nut M14	2	SP-LS05-35-WG	Support bracket	1
SP-LS05-08-WG	Lift handle	1	SP-LS05-36-WG	Inner hexagon bolt M10X20	6
SP-LS05-09-WG	Inner hexagon bolt M6X16	2	SP-LS05-37-WG	Plastic pad 1	1
SP-LS05-10-WG	Washer M6	2	SP-LS05-38-WG	Workable tank	1
SP-LS05-11-WG	Anti-loose nut M14	2	SP-LS05-39-WG	Two-head bolt	4
SP-LS05-12-WG	Fixing bolt M14	1	SP-LS05-40-WG	cylinder aluminum cover	1
SP-LS05-13-WG	Operation handle	1	SP-LS05-41-WG	Silica gel ring CK30	1
SP-LS05-14-WG	Handle guard	1	SP-LS05-42-WG	Butterfly-style Nut M4X16	1
SP-LS05-15-WG	Cover-type nut M10	3	SP-LS05-43-WG	Gasket 14	1
SP-LS05-16-WG	Plastic washer II	1	SP-LS05-44-WG	Oil ruler	1
SP-LS05-17-WG	thicker nut M10	4	SP-LS05-45-WG	Support & Protection guard	2
SP-LS05-18-WG	Washer 10	4	SP-LS05-46-WG	bolt M6X12	4
SP-LS05-19-WG	Aluminum block	1	SP-LS05-47-WG	wheel cover	2
SP-LS05-20-WG	Steel ball Φ6	1	SP-LS05-48-WG	Wheel	2
SP-LS05-21-WG	Inner hexagon bolt M6×10	1	SP-LS05-49-WG	Split washer 12	2
SP-LS05-22-WG	Washer 8	1	SP-LS05-50-WG	Cross pan head bolt M6X16	2
SP-LS05-23-WG	screw M8X8	1	SP-LS05-51-WG	washer 6	2
SP-LS05-24-WG	Split washer 6	1	SP-LS05-52-WG	Back steel-plate support	1
SP-LS05-25-WG	spring	1	SP-LS05-53-WG	Nut M6	2
SP-LS05-26-WG	Small shaft outer sleeve	1	SP-LS05-54-WG	outer hexagon bolt M8X50	6
SP-LS05-27-WG	Gasket 55X3.1	1	SP-LS05-55-WG	O ring 10X2.65	2
SP-LS05-28-WG	O ring 10.6X1.8	5	SP-LS05-56-WG	Gear pump housing	1

No	Name in English	quantity (pcs)	No	Name in English	quantity (pcs)
SP-LS05-57-WG	flat key	1	SP-LS05-84-WG	seal gasket	1
SP-LS05-58-WG	Gear spindle	1	SP-LS05-85-WG	seal gasket	1
SP-LS05-59-WG	Gear	2	SP-LS05-86-WG	Gasket 5.8X1.3	1
SP-LS05-60-WG	Middle clapboard	1	SP-LS05-87-WG	washer	1
SP-LS05-61-WG	outer hexagon bolt M6X40	6	SP-LS05-88-WG	seal gasket	1
SP-LS05-62-WG	Ring 46.2X1.8	2	SP-LS05-89-WG	Inner hexagon bolt M5×10	1
SP-LS05-63-WG	lockNut M6	1	SP-LS05-90-WG	small shaft	1
SP-LS05-64-WG	Inner hexagon bolt M6X35	1	SP-LS05-91-WG	seal gasket	1
SP-LS05-65-WG	oil seal	1	SP-LS05-92-WG	right foot cover	1
SP-LS05-66-WG	motor	1	SP-LS05-93-WG	seal gasket	1
SP-LS05-67-WG	spring washer	1	SP-LS05-94-WG	spring	1
SP-LS05-68-WG	Motor front cover	1			
SP-LS05-69-WG	circlip 10	2			
SP-LS05-70-WG	steel ball Φ2.5	1			
SP-LS05-71-WG	hexagon bolt M8X30	3			
SP-LS05-72-WG	Square neck bolt M8X15	5			
SP-LS05-73-WG	Frontal support stand	1			
SP-LS05-74-WG	washer 8	3			
SP-LS05-75-WG	nut M6x16	2			
SP-LS05-76-WG	flat washer 8	6			
SP-LS05-77-WG	spring washer 8	6			
SP-LS05-78-WG	spring washer 6	6			
SP-LS05-79-WG	Gasket 5.8X1.3	1			
SP-LS05-80-WG	left foot cover	1			
SP-LS05-81-WG	nut M8	5			
SP-LS05-82-WG	washer	2			
SP-LS05-83-WG	washer 6	4			

Limited Warranty

ALL-POWER® warrants to the original purchaser who uses the product in a consumer application (personal, residential or household usage) that all products covered under this warranty are free from defects in material and workmanship for one year from the date of purchase. All products covered by this limited warranty which are used in commercial applications (i.e. income producing) are warranted to be free of defects in material and workmanship for 90 days from the date of original purchase. Products covered under this warranty include air compressors, air tools, service parts, pressure washers, and generators.

ALLPOWER® will repair or replace, at ALL-POWER®'s sole option, products or components which have failed within the warranty period. Service will be scheduled according to the normal work flow and business hours at the service center location, and the availability of replacement parts. All decisions of ALL-POWER® with regard to this limited warranty shall be final.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RESPONSIBILITY OF ORIGINAL PURCHASER (initial User):

- To process a warranty claim on this product, DO NOT return item to the retailer. The product must be evaluated by an Authorized Warranty Service Center. For the location of the nearest Authorized Warranty Service Center call 888-896-6881, or visit our web site @ www.jdna.com
- Retain original cash register sales receipt as proof of purchase for warranty work.
- Use reasonable care in the operation and maintenance of the product as described in the Owners Manual(s).
- Deliver or ship the product to the nearest Authorized Warranty Service Center. Freight costs, if any, must be paid by the purchaser.
- Air compressors with 60 and 80 gallon tanks will be inspected at the site of installation. Contact the nearest Authorized Warranty Service Center that provides on-site service calls for service call arrangements.
- If the purchaser does not receive satisfactory results from the Authorized Warranty Service Center, the purchaser should contact ALL-POWER®

Limited Warranty (cont'd)

THIS WARRANTY DOES NOT COVER:

Merchandise sold as reconditioned, used as rental equipment, or floor or display models.

Merchandise that has become damaged or inoperative because of ordinary wear, misuse, cold, heat, rain, excessive humidity, freeze damage, use of improper chemicals, negligence, accident, failure to operate the product in accordance with the instructions provided in the Owner's Manual(s) supplied with the product, improper maintenance, the use of accessories or attachments not recommended by ALL-POWER[®], or unauthorized repair or alterations.

Repair and transportation costs of merchandise determined not to be defective. Costs associated with assembly, required oil, adjustments or other installation and start-up costs.

Expendable parts or accessories supplied with the product which are expected to become inoperative or unusable after a reasonable period of use.

Merchandise sold by ALL-POWER[®] which has been manufactured by and identified as the product of another company, such as gasoline engines. The product manufacturer's Warranty, if any, will apply.

ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECTS, FAILURE OR MALFUNCTION OF THE PRODUCT IS NOT COVERED BY THIS WARRANTY. Some states do not allow the exclusion, so it may not apply to you. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF ORIGINAL PURCHASE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply.