

FOR YOUR SAFETY

**READ AND UNDERSTAND THE ENTIRE MANUAL
BEFORE OPERATING MACHINE**

MODEL NUMBER : LS8T-230V

SERIAL NUMBER : _____

Both model number and serial number may be found on the main label .
You should record both of them in a safe place for future use.

Save This Manual for Future Reference

8 TON VERTICAL LOG SPLITTER

Owner's Manual

SAFETY WARNINGS & CAUTIONS

SAFETY WARNINGS & INSTRUCTIONS	SYMBOL AFFIXED TO THE MACHINE
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1 UNDERSTAND YOUR LOG SPLITTER

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.



1 DRUGS, ALCOHOL AND MEDICATION

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.

1 AVOID DANGEROUS CONDITIONS

Always operate your log splitter on dry, solid, level ground. Never operate your log splitter on slippery, wet, muddy, or icy surfaces. The location you choose should be free from any tall grass, brush, or other interferences. There should be plenty of room for handling, and help the operator stay alert. Keep your work area clean and well lighted. Cluttered areas invites injuries. To avoid tripping, do not leave tools, logs, or other components laying around the work area. Do not use the log splitter in wet or damp areas or expose it to rain. Do not use it in areas where fumes from paint, solvents or flammable liquids pose a potential hazard.



1 INSPECT YOUR LOG SPLITTER

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. Make sure all nuts, bolts, screws, hydraulic fittings, hose clamps, etc. are securely tightened. Always check the oil level in the hydraulic oil tank. Never operate your log splitter when it is in need of repair or is in poor mechanical condition.



1 DRESS PROPERLY

Do not wear loose clothing, gloves, neckties or jewelry (rings, wrist watches). They can be caught in moving parts. 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.



I PROTECT YOUR EYES AND FACE

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.



I 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 10m 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.

I 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 switch / plug box. Should this be necessary, contact a qualified electrician. Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging the log splitter.

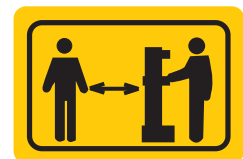
I PREVENT FIRES

Do not smoke or have open flames when operating or refilling the log splitter. Never operate the log splitter near a flame or spark. Oil is flammable and can be exploded.



I KEEP BYSTANDERS AWAY

Allow only one person to load and operate the log splitter. Always keep bystanders, including visitors, children and pets away from the work area, especially when the log splitter is under operations. Only the operator should stand near the machine and only within the safe operating area prescribed in this manual. Never use another people to help you with freeing jammed log. No one under the age of 16 should be allowed to operate the log splitter. Any individual under the age of 18 should has the necessary training, skills to perform the functions properly and safely and should always be under the supervision of adult.



I INSPECT YOUR LOG

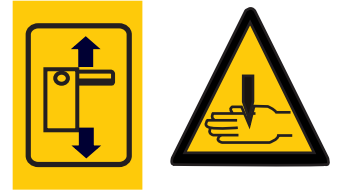
Never attempt to split logs containing nails, wire or debris. Always make sure that both ends of the log you are splitting are cut as square as possible. This will prevent the log from sliding out of position while under pressure. Branches must be cut of flush with the trunk.

1 DON'T OVERREACH

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.

1 AVOID INJURY FROM UNEXPECTED ACCIDENT

Do not straddle or reach across the splitting area when operating the log splitter. Never pile logs to be split in a manner that will cause you to reach across the log splitter. Only use your hands to operate the control levers. Never use your foot, knee, a rope, or any other extension device. Always pay full attention to the movement of the wedge ram. Never attempt to load your log splitter while the ram is in motion. Keep hands out of the way of all moving parts. Never try to split two logs on top of each other. One of them may fly up and hit you.



1 PROTECT YOUR HANDS

When the ram of the log splitter is in the return mode, keep your hands off the machine – the log splitter is designed to automatically stop when the cylinder is full retracted. Keep you 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 you hands.



1 DON'T FORCE TOOL

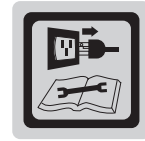
It will do a better and safer job at its design rate. Don't use log splitter for a purpose for which it was not intended. Do not, under any circumstances, alter your log splitter. This equipment was designed and engineered to be used in accordance with the operating instructions. Altering the equipment, or using the equipment in such a way as to circumvent its design capabilities and capacities, could result in serious or fatal injury and will void the warranty. Never try to split logs larger than those indicated in the specifications table. This could be dangerous and may damage the machine.

1 NEVER LEAVE TOOL RUNNING UNATTENDED

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

1 DISCONNECT POWER

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



1 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.



1 MAINTAIN YOUR LOG SPLITTER WITH CARE

Always clean the unit after each use. Keep the log splitter clean for best and safest performance. Follow instructions for lubricating. Inspect all hydraulic seals, hoses and couplers for leaks prior to use. Control levers and power switch must be kept clean, dry and free from oil and grease at all times.

1 MAKE THE WORKSHOP CHILDPROOF

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

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APPLICATION CONDITIONS

This log splitter is designed for operating under ambient temperatures between +5°C and 40°C and for installation at altitudes no more than 1000m above M.S.L. The surrounding humidity should be less than 50% at 40°C. It can be stored or transported under ambient temperatures between -25°C and 55°C.

SPECIFICATIONS

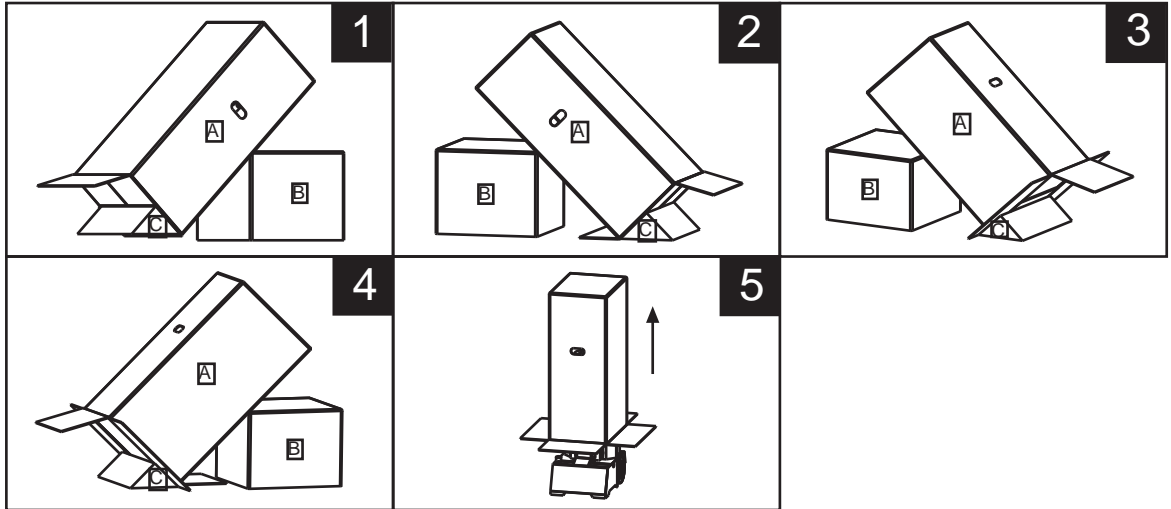
Modell Nummer		LS8T-230V
Motor		230V~ 50Hz 3000W IP54
Log Size Capacity	Dia.	12cm ~ 32cm
	Length	104 cm / 78 cm / 52 cm
Maximum Force		8 t
Hydraulic Pressure		22Mpa
Hydraulic Oil Capacity		5 L
Ram Travel		480mm
Forward Speed		3.9cm / sec.
Retract Speed		14.5cm / sec
Noise Level		80.1dbA under no load ; 92.5dbA under full load
Overall Sizes	Length	83cm
	Width	93cm
	Height	147cm
Weight		115 kg

ELECTRICAL REQUIREMENTS

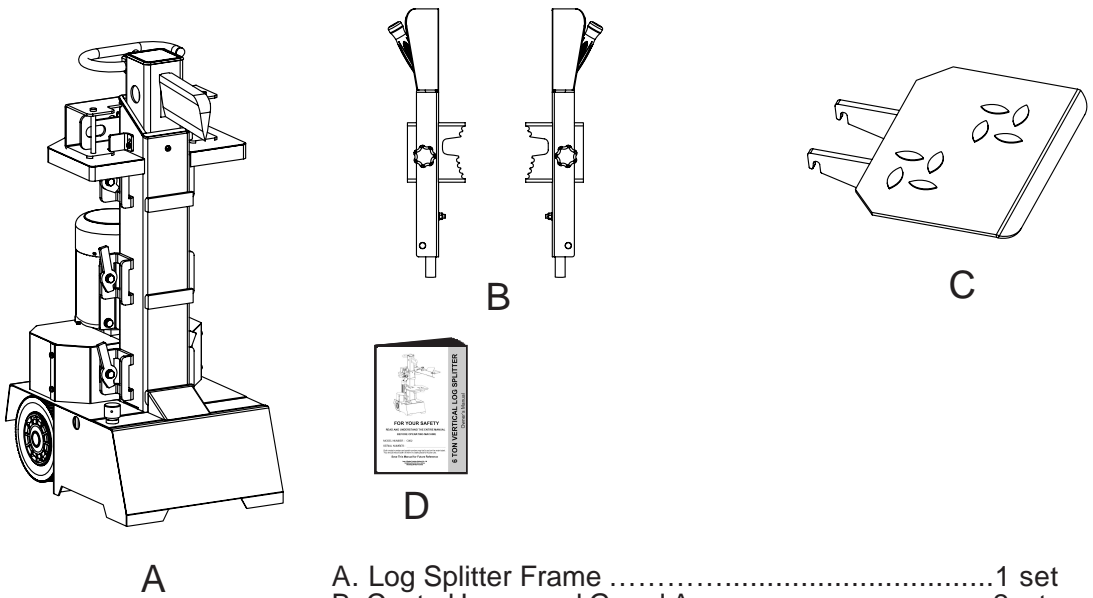
With 230 Volt / 50Hz motor, the log splitter should be connected to standard 230V \pm 10% / 50Hz \pm 1Hz. Electrical supply which has protection devices of under-voltage, over-voltage, over-current as well as a residual current device (RCD) which maximum residual current rated at 0.03A. Electrical connection rubber cables must comply with EN60245 which are always marked with symbol H 07 RN. Cables should be identified, as it is a legal requirement.

UNPACKING

At least 2 people required to unpack the log splitter package. Take the following steps to put the Log Splitter on the ground by tipping every side of the carton by 45 degree. Make sure put Block (B) to support the Log Splitter package (A) at the point a little higher than the middle. The other side of Block (B) shall be against steady object, such as a wall. Wedge (C) shall be arranged under the tipped Log Splitter Package (A) every step to avoid slipping. Then remove the carton off the Log Splitter.



CONTENTS OF THE SHIPPING CONTAINER

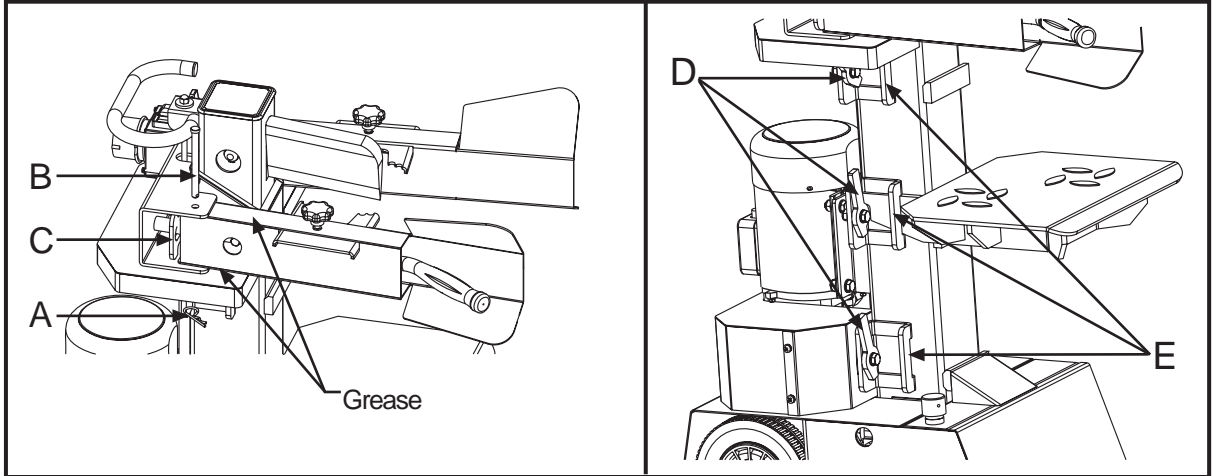


- A. Log Splitter Frame1 set
- B. Control Lever and Guard Assy.....2sets
- C. Removable Support Table.....1 pc
- D. Owner's Manual1 pc

SET UP AND PREPARATION FOR OPERATION

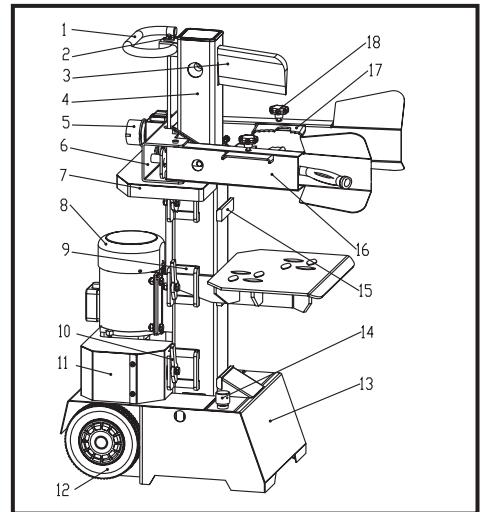
1. Pull Spring Pin (A) to remove the Lock Pin (B). Apply a thin coat of grease to both surfaces of the Control Lever Guard as illustrated. Insert the Control Lever and Guard Assy and make sure the Control Lever End goes into the slot of Connection Bracket (C). Lock the Control Lever and Guard Assy. down with the Lock Pin (B) and Spring Pin (A). Follow the same steps to install the other Control Lever and Guard Assy on the other side.

2. 3 installation positions available for the Support Table for different splitting length. At every installation position, Lock Down Hooks (D) are available. Insert the Support Table in the selected Brackets (E). Turn the Lock Down Hooks (D) on both side by 90 degrees to lock the Support Table down.

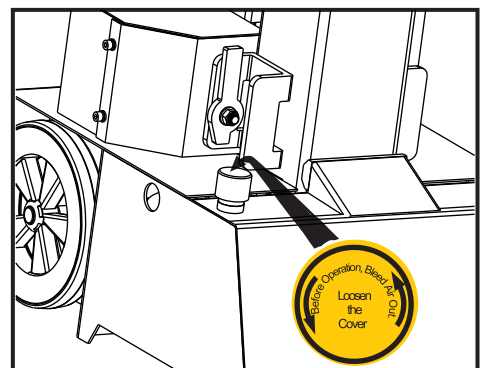


3. Familiarize yourself with the controls and features of this log splitter in the illustrations.

1. Transport Handle
2. Ram Travel Adjusting Rod
3. Split Wedge
4. Ram
5. Plug & switch
6. Control Levers Connection Bracket
7. Top Motor Shield
8. Motor
9. Side Bracket for Support Table
10. Table Lock Down Hook
11. Base Cover
12. Wheels
13. Base
14. Oil Tank Cover / Air Bleeder
15. Front Bracket for Support Table
16. Control Lever Guard
17. Adjustable Log Holder
18. Log Holder Adjusting Knob



Bleed the air out of the hydraulic system before starting the log splitter. The cover of the hydraulic oil tank should be loosened by some rotations until air can go in and out of the oil tank smoothly. Air flow thru the oil tank filler should be detectable during the operations. Before moving the log splitter, make sure the cover of the oil tank is tightened to avoid oil leaking from this point.





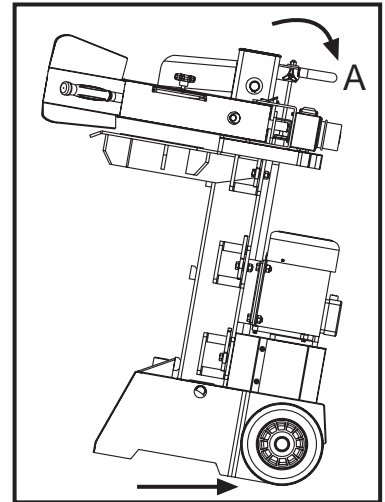
FAILED TO LOOSEN THE OIL TANK COVER WILL KEEP THE SEALED AIR IN HYDRAULIC SYSTEM BEING COMPRESSED AFTER BEING DECOMPRESSED. SUCH CONTINUOUS AIR COMPRESSION AND DECOMPRESSION WILL BLOW OUT THE SEALS OF THE HYDRAULIC SYSTEM AND CAUSE PERMANT DAMAGE TO THE LOG SPLITTER.

DELIVERING LOG SPLITTER TO WORK SITE

The log splitter is equipped with 2 wheels for minor moving. To move the log splitter to the work site. Grip the handle (A) to tilt the log splitter slightly after making sure the oil tank cover is tightened.

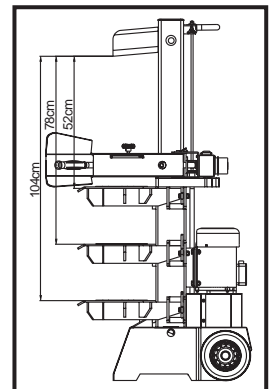


If using a crane, lay hoist sling around the housing. Never try to lift the log splitter at the Handle (A).



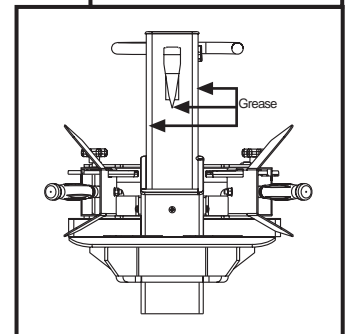
LOG SPLITTER OPERATION

1. Plan your work site. Work safely and save effort by planning your work before hand. Have your logs positioned where they can be easily reached. Have a site located to stack the split wood or load it onto a nearby truck or other carrier.
2. Prepare the logs for splitting. This splitter accommodates logs up to 104cm in length. When cutting up limbs and large sections, do not cut sections any longer than 100cm. With 3 support table positions for splitting for 52cm, 78cm 104cm in length. Insert the support table in position nearest the log length, and secure the support table with the locking hook.



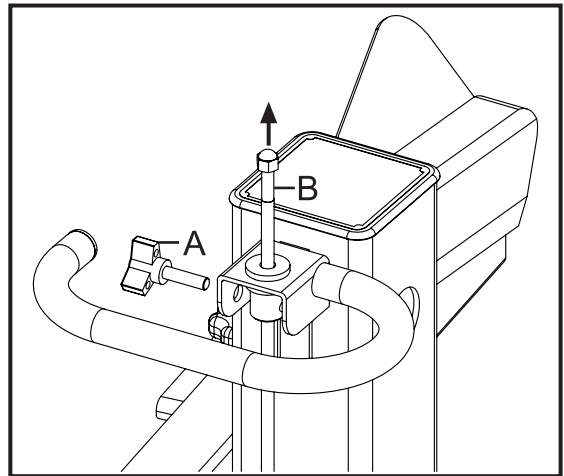
Do not attempt to split green logs. Dry, seasoned logs split much more easily, and will not jam as frequently as green wood.

3. To Apply a thin coat of grease to the surfaces of the ram before operation will lengthen the durability of the ram.




4. Route the power cord. Route the cord from the power source to the splitter in a way that safeguards against tripping on the cord, or the cord becoming damaged during the work session. Protect the power cord from impacts, pulling or corrosive materials.
5. Open the Air Bleed. Loosen the oil tank cover a few turns whenever the splitter being used. Retighten this cover when you finished.
6. While operating under extremely low temperature, keep the log splitter running under no load for 15 minutes to preheat the hydraulic oil.
7. Before initial operation, check to be sure the two-handed operation is properly functioning by following steps:
 - (1) Lower both control levers, splitting wedge lowers to approx 5cm above the take above the highest table position.
 - (2) Release either of the levers, splitting wedge should remains in the original position.
 - (3) Release both levers, the ram should rise to the highest position automatically.
- 8 To set wedge ram stroke, take the following steps:

- (1) Move splitting wedge to desired position. The upper position of the ram wedge travel should be about 3~5cm over the logs to be split.
- (2) Release a control lever or switch off motor
- (3) Release the Setscrew (A) with L key. Raise Adjusting Rod (B) until Adjusting Rod (B) is started to be stopped by the spring inside. Tighten the Setscrew (A).
- (4) Release both control levers or switch on motor
- (5) Check upper position of splitting wedge.

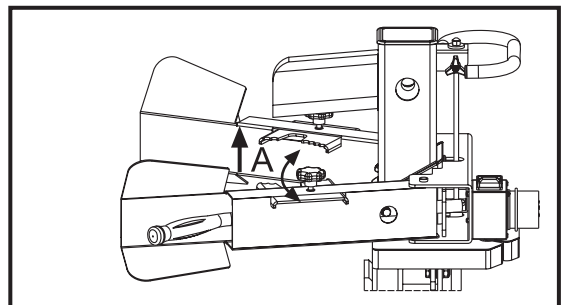


9. Place log onto splitter. Place the log onto the support table vertically and sitting flat on the support table. Be sure the wedge and support table will contact the log squarely on the ends. Never attempt to split a log at an angle.

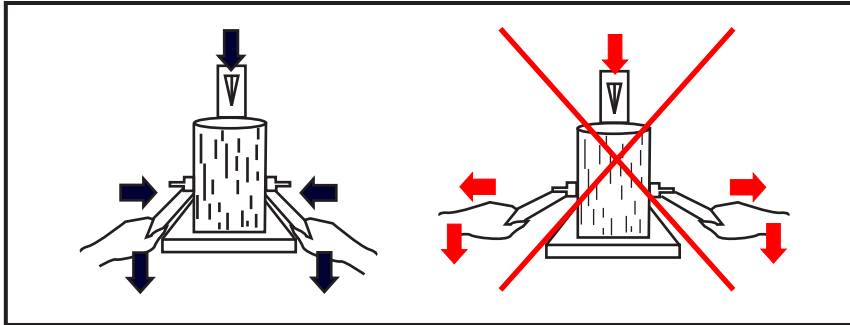


Break log in the direction of its growing grain. Do not place log across the log splitter for splitting. It may be dangerous and may seriously damage the machine.

10. Adjust the Log Holders (A) according to the diameter of the log to obtain most comfortable Control Levers angle.



11. Hold the log with clamping brackets closely in the control lever guards. Lower levers to start the splitting. Releasing either lever stops the motion of the splitting wedge. Releasing both handles to return the splitting wedge to the upper position.



12. Stack as you work. This will provide a safer work area, by keeping it uncluttered, and avoid the danger of tripping, or damaging the power cord.



Accumulated split wood and wood chips can create a hazardous work environment. Never continue to work in a cluttered work area which may cause you to slip, trip or fall.

REPLACING HYDRAULIC OIL

The hydraulic system is a closed system with oil tank, oil pump and control valve. Check oil level regularly with dipstick. Low oil levels can damage the oil pump. Oil Level should measure approx. 1 ~ 2 cm lower than the upper surface of the oil tank. The oil should be completely changed once a year.

- 1 Make sure moving parts stops and the log splitter is unplugged.
- 1 Make sure that no dirt or debris finds its way into the oil tank
- 1 Collect used oil and responsibly recycle.
- 1 Following an oil change, activate the log splitter a few times without actually splitting

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

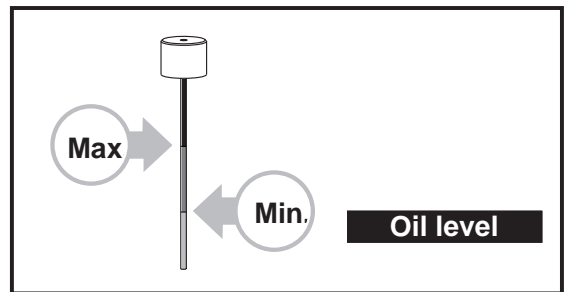
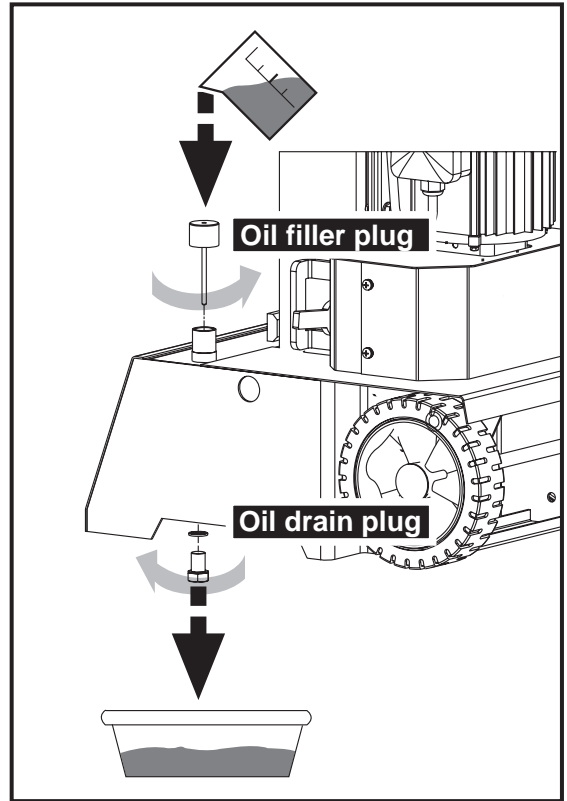
SHELL Tellus 22
MOBIL DTE 11
ARAL Vitam GF 22
BP Energol HLP-HM 22

Use a drain pan to aid in the removal of all used oil and particles.

Remove oil drain plug to drain oil from the hydraulic transmission system. Examine oil for metal chips as a precaution to future problems.

After oil has been completely drained from the machine, reinstall drain plug.

Add the hydraulic transmission system with recommended oil through filler plug opening.



Read dipstick to determine the maximum and minimum of the oil level. Low oil can damage the oil pump. Overfilling can result in excessive temperature in the hydraulic transmission system.

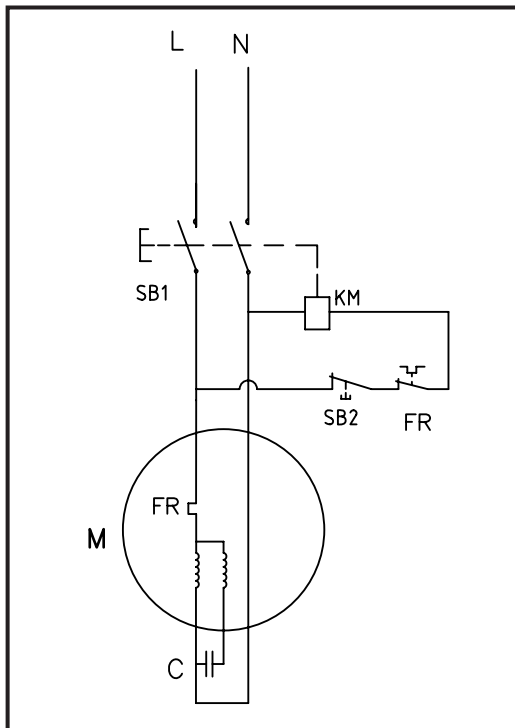
SHARPENING WEDGE

This log splitter is equipped with reinforced splitting wedge which blade is specially treated, After long periods of operation, and when required; sharpen the wedge using a fine-toothed file removing any burrs or flat spots on the edge.

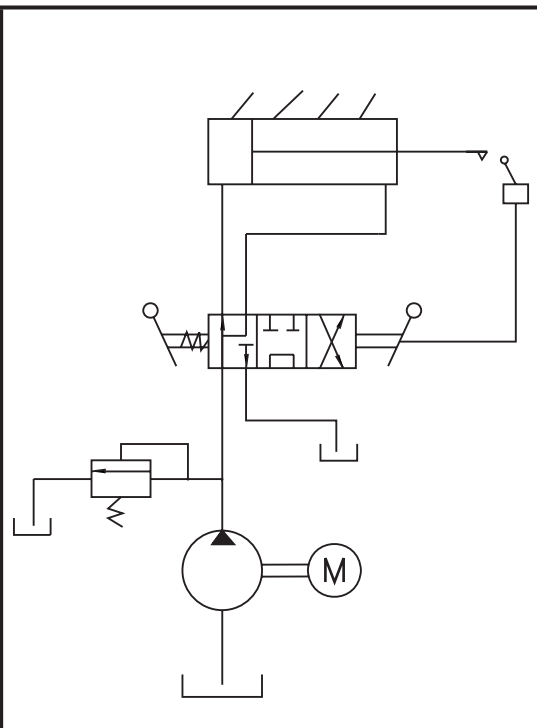
TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	REMEDY SUGGESTED
Motor does not start	No current in the socket	Check mains fuse
	Electrical extension line defective	Unplug, Check and replace.
	Switch or capacitor defective.	Have checked by Electrician
Incorrect motor rotation direction	Incorrect connection	Change pole switching device in the plug with a screw driver
		Reverse polarity by electrician.
Log Splitter does not work while motor running	Valve is not opened owing to the connection parts loosening	Check and tighten the parts.
	Control Levers or Connection parts bent.	Repair the bent parts
	Lower hydraulic oil level	Check and refill hydraulic oil.
Log Splitter works with abnormal vibration and noise	Lower hydraulic oil level	Check and refill hydraulic oil.

WIRING DIAGRAM



PLUMBING DIAGRAM



PARTS SCHEMATIC

