

# **Instruction Manual for Hydraulic Log Splitter**



## **FOR YOUR SAFETY**

**Read and understand the entire manual  
before operating machine  
Save This Manual for Future Reference**

**MODLE NUMBER:HLS15TG**

## SAFETY WARNINGS&CAUTIONS

### SAFETY WARNINGS&INSTRUCTIONS

### SYMBOL AFFIXED TO THE MACHINE

#### ● 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.

#### ● 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.

#### ● AVOID DANGEROUS CONDITIONS

Put the log splitter on a 60-75cm 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.

Keep your work area clean and well lighted. Cluttered areas invite injuries.

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.

#### ● INSPECT YOUR LOG SPLITTER

Check your log splitter before turning it on. Keep guards in place and in working order. From 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.

#### ● DRESS PROPERLY

Do not wear loose clothing, gloves, neck ties 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 getting caught in machinery.

#### ● 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 and/or face shield. Everyday eyeglasses have only impact resistant lenses.

They are not safety glasses.

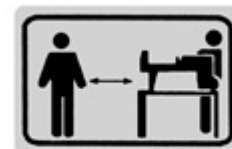
Do not put the log splitter on the ground for operations. This is awkward operating position that the operator has to bring his face close to the machine, and thus risks being struck by wood chips or debris.



SAFETY WARNINGS & INSTRUCTIONS	SYMBOL AFFIXED TO THE MACHINE
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● **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 of 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.



SAFETY WARNINGS&INSTRUCTIONS	SYMBOL AFFIXED TO THE MACHINE
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● **PROTECT YOUR HANDS**

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 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 the tool until it has come to a complete stop.

● **PROTECT THE ENVIRONMENT**

Take used oil to an authorized collection point or follow the slipulations 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.

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## APPLICATION CONDITIONS

This log splitter is a home use model. It 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 less than 50% at 40°C. It can be stored or transported under ambient temperatures between -25°C and 55°C.

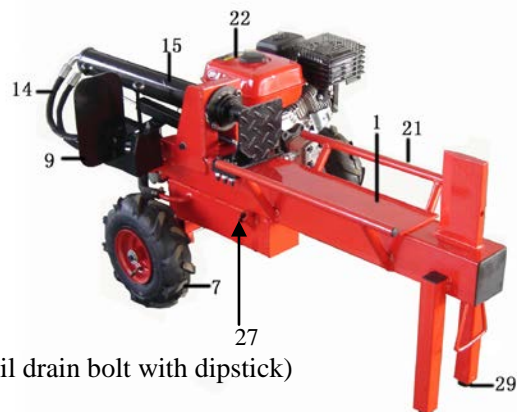
## SPECIFICATIONS

Model Number		HLS15TG
Engine power output		6.5HP/4.8KW 3600rpm
Log Capacity	Diameter*	7~40cm
	Length	52cm
Splitting Force		15T
Hydraulic Pressure		21Mpa
Hydraulic Oil Capacity		3L
Overall Size	Length	1480mm(working-state)
	Width	800mm
	Height	570mm
Weight		87kg

\*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.

## SET UP AND PREPARATION FOR OPERATION

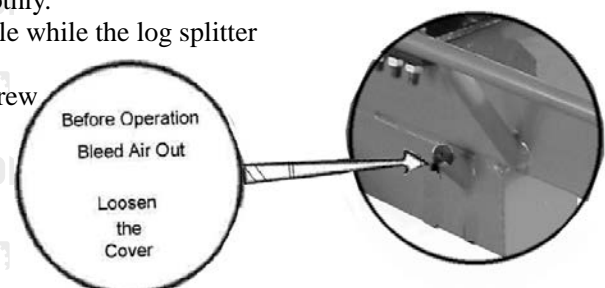
- A. Place it on a stable, flat and level work surface.
- B. Familiarize yourself with the controls and features of this log splitter in the illustrations.
  1. work table welding unit
  7. wheel
  9. control structure
  14. high pressure oil pipe
  15. oil cylinder
  21. wood supporting frame
  22. gasoline engine
  27. pushing part



Before operating the log splitter, the Bleed Screw (oil drain bolt with dipstick) should be loosened by some rotation until air can go in and out of the oil tank smoothly.

Air flow thru the Bleed Screw hole should be detectable while 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.

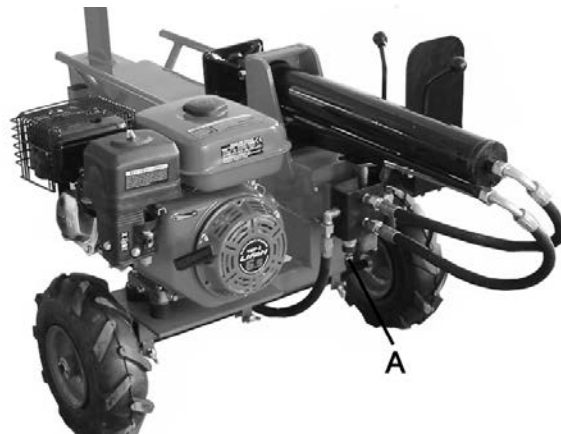
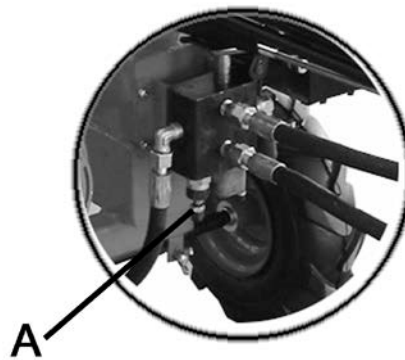




FAILED TO LOOSEN THE BLEED SCREW WILL KEEP THE SEALED AIR IN HUDRAULIC SYSTEM BEING COMPRESSED AFTER BEING DECOMPRESSED. SUCH CONTINUOUS AIR COMPRESSION AND DECOMPRESSION WILL BLOW OUT THE SEALS OF THE HYDRAULIC SYSTEM AND CAUSE PERMANENT DAMAGE TO THE LOG SPLITTER.

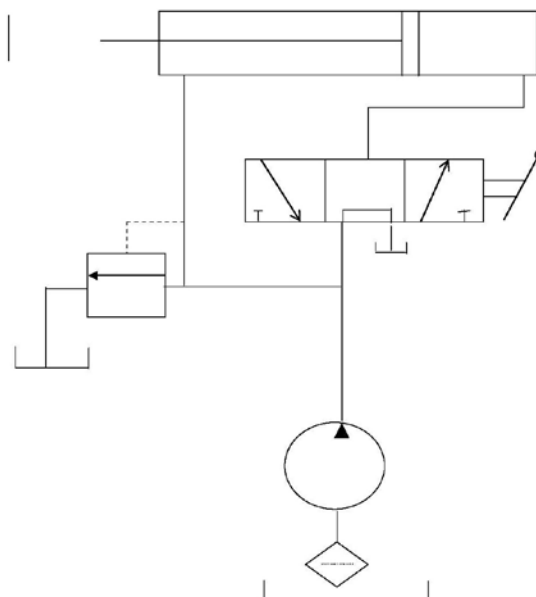
A. Max Pressure Limiting Screw  
DO NOT ADJUST THE  
MAX PRESSURE  
LIMITING SCREW!

Max pressure was set before  
The log splitter ex work and  
The max pressure limiting  
Screw is sealed to ensure  
The log splitter works  
Under pressure no more than  
15 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.



Plumbing diagram

Hydraulikplan





## ASSEMBLING THE WHEEL, PUSHING PART & CONTROL STRUCTURE



fig 1



fig 2



fig 2A



fig 2B



fig2C

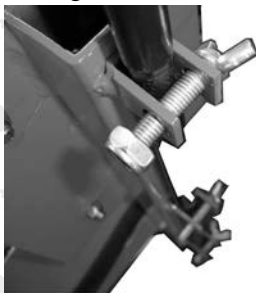


fig 2D



fig 2E



fig 2F

1. After opening the carton, Pls take out machine from The carton and put it on the ground. as figure 1
2. Put wheel axle into axle holder as fig 2 showing and fix by using 3 bolts M10X45 and 3 locking nut M10. as fig 2A, fig 2B, fig 2C, fig 2D, fig 2E, fig 2F



fig 3



fig 3A



fig3B  
locking pin



fig 3C



fig 3D

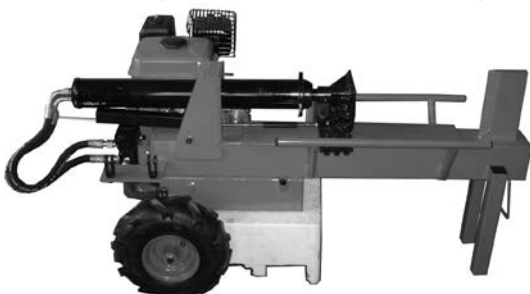


fig 3E

3. Then put the two wheels into the two ends of the axel and be sure to put the locking pin. As fig3,fig3A, fig3B,fig3C,fig3D, fig 3E

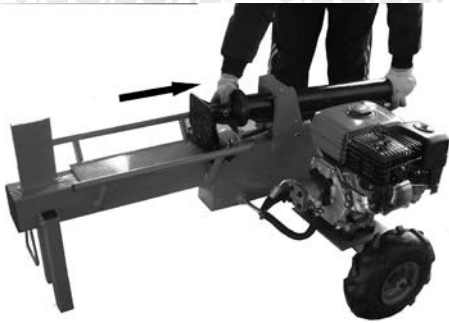


fig 4

4. Please move the oil cylinder to the opposite direction of splitting wedge as shown in fig 4



fig 5

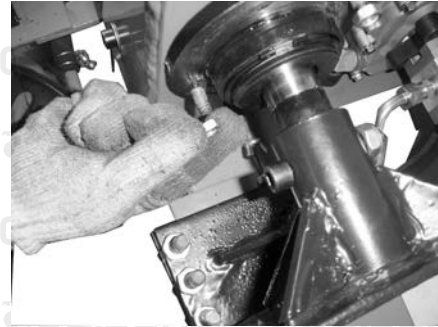


fig 5A

5. Then fix push plate by 2 locking nuts M8. As fig 5 fig, 5A showing.

6. Assemble control handle and control structure. see fig 6, fig 6A, fig 6B, fig 6C, fig 6D, fig 6E, fig 6F, fig 6G, fig 6H

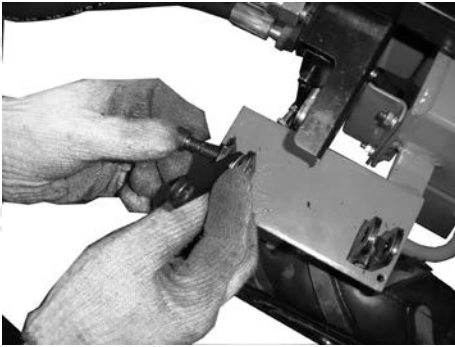


fig 6



fig 6A



fig 6B



fig 6C



fig 6D

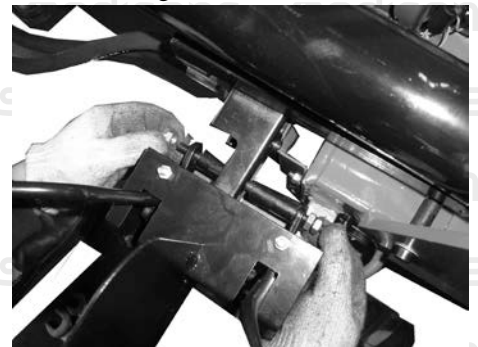


fig 6E

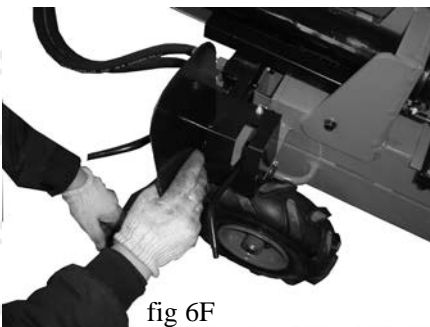


fig 6F

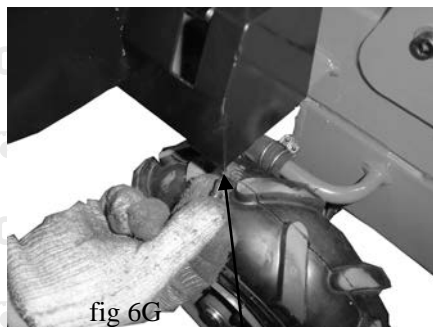


fig 6G

put screw on below side



fig 6H

put screw handle knob

6.Completion of assembly as fig 7



fig 7

Fig 5

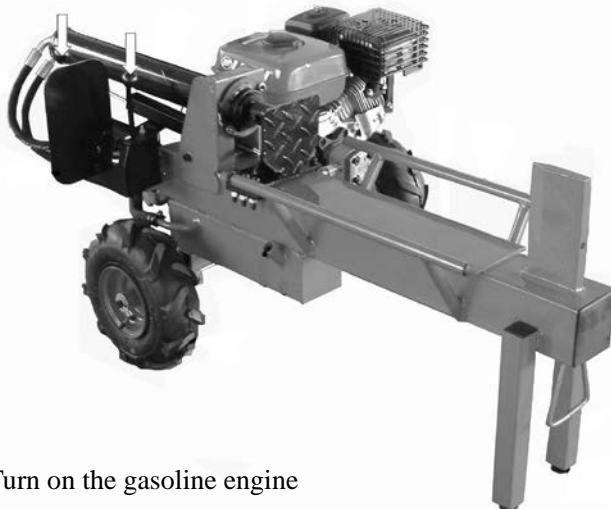


fig 8

Pls adjust the wing-nut for purpose of desired splitting length according e size of splitted wood.

7.Adjust for the splitted wood  
See Fig8

## LOG SPLITTER OPERATION



Turn on the gasoline engine

This log splitter is equipped with “ZHB” control system that requires to be operated by both hands of the user-left hand controls the one hydraulic control lever while right hand controls the other hydraulic control.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.



NEVER FORCE THE LOG SPLITTER FOR MORE THAN 5 SECONDS BY KEEPING PRESSURE ON IT TO SPLIT EXCESSIVELY HARD WOOD.

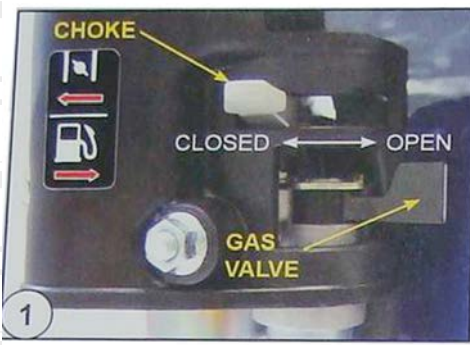
After this time interval, the oil under pressure will be overheated and the machine could be damaged.

For such extremely hard log, rotate it by 90°C to see whether it can be split in a different direction.

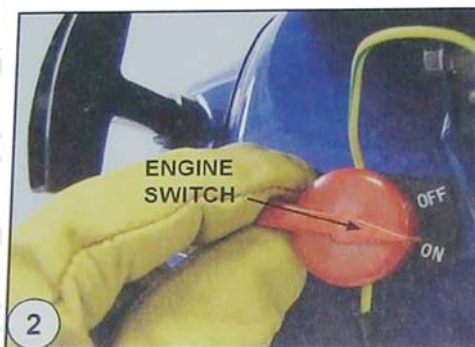
In any case, if you are not able to split the log, this means that its hardness exceeds the capacity of the machine and thus that log should be discarded to protect the log splitter.



## GAS ENGINE START UP GUID



**BEFORE STARTING**, check and fill engine with approximately 0.6 litres SAE10W-30 oil. Fill the fuel tank with 93+octane unleaded gasoline  
**NOTE:** This engine includes an automatic low oil shutdown sensor that disables the engine if the oil level is too low



### Starting The Enging:

1. Open The Gas Valve By Moving To The Right. Close The Choke By Moving it To The Left.  
 Note: If The Engine Is Already Hot, It Is Not Necessary To Close

Open The Throttle By Moving To The Left (Rabbit Symbol) See Bottom

2. Turn The Engine Switch To The On Position.
3. Gently Pull The Recoil Starter Handle Until It Engages, Then Pull It All The Way Out In A Rapid Pull. May Take 5 pulls To Start.

Once The Engine Starts, Move The Choke To 1/2 choke Position.

After 15 Seconds, Open Choke By Moving To Right.

Note: Moving The Choke Too Fast Can Kill The Engine.

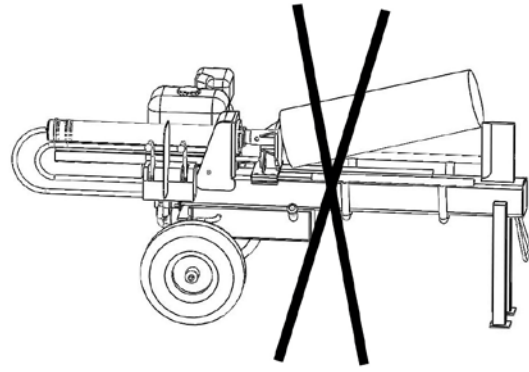
4. Adjust The Throttle To The Speed You Desire.  
**IMPORTANT:** Allow The Engine To Warm Up With No Load For At Least 1 Minute After Each Start-Up.



### Stopping The Enging:

1. Move The Throttle Lever To The Right (Idle Position).
2. Turn The Engine Switch To The OFF Position.

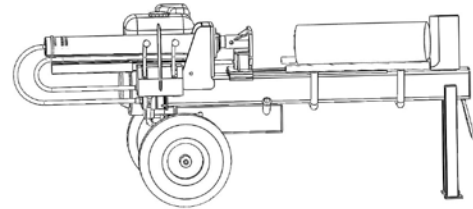
**Always set logs firmly on the log retaining plates and work table. Make sure logs will not twist, rock or slip while being split. Do not force the blade by splitting the log on the upper part. This will break the blade or damage the machine.**



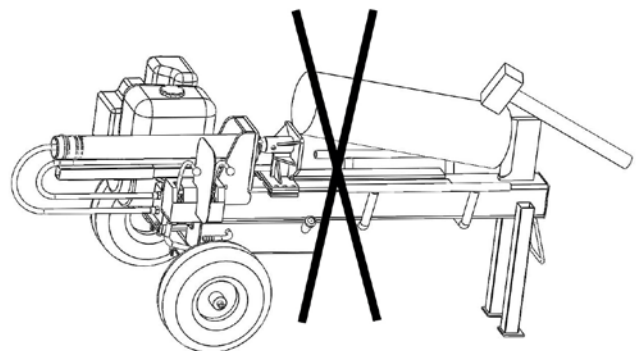
Break log in the direction of its growing grain. Do not place log across the log splitter for splitting. It may be dangerous and may seriously damage the machine. Do not attempt to split 2 pieces of logs at the same time. One of them may fly up and hit you.

#### **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.



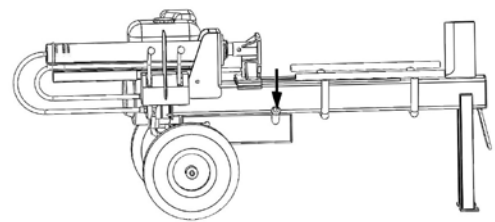
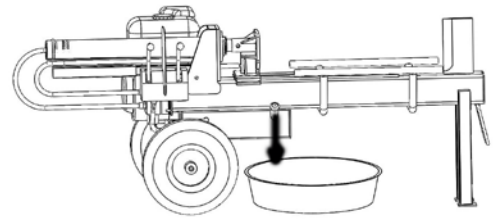
**Do not try to knock the jammed log off. Knocking about will damage the machine or may launch the log and cause accident.**



## 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.
- Over an 4 liters capacity container to drain the hydraulic oil off.
- 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 placing 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 GF22

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.



PROBLEM	PROBABLE CAUSE	REMEDY SUGGESTED
Motor Stops Staring	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 some 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





2#	guiding support	2
3#	lower guiding	2
4#	guiding linen	2
5#	Wing bolt M10x35	3
6#	oil level indicator	1
7#	12" wheel	2
8#	hinge seat	2
9#	control structure	1
10#	operation handle-left	1
11#	operation handle-right	1
12#	axle for limiting rod	1
13#	pressing plate for valve pole	1
14#	high pressure oil pipe 550mm	1
15#	oil cylinder	1
16#	return oil pipe	1
17#	double speed valve	1
18#	limiting screw rod	1
19#	seat for valve	1
20#	limiting pipe	1
21#	Wood supporting frame	1
22#	gasoline engine	1
23#	pump	1
24#	shock absorbing rubber pad	4
25#	wheel axle	1
26#	pushing plate	1
27#	bolt M10x45& nut M10	6
28#	rubber pad for stand	2
29#	high pressure oil pipe 550mm	1
30#	high pressure oil pipe 490mm	1
31#	Inner oil pipe	1



**Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death consult the points below and additionally, the information available at [www.datastreamserver.com/safety](http://www.datastreamserver.com/safety)**

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognised training course before being given access to the product.

- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example) there is always a small chance of a technical issue that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee or could financially affect the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error considering the points above simply contact the retailer directly for details of their returns policies if required.

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