

Bäumer-AG

Electric Log Splitter

User Manual



RETAIN THIS MANUAL FOR FUTURE REFERENCE

PLEASE READ THIS MANUAL CAREFULLY BEFORE USE

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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.

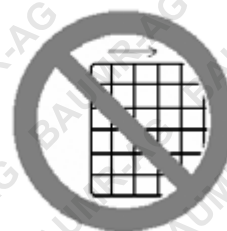
Keep your work area clean and well lighted. Cluttered areas invite injuries.

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. 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.



- **DRESS PROPERLY**

Do not wear loose clothing, gloves, neckties or jewellery (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.



SAFETY WARNINGS & INSTRUCTIONS

SYMBOL AFFIXED TO THE MACHINE

- **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.

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.



- **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.

- **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.

SAFETY WARNINGS & INSTRUCTIONS

SYMBOL AFFIXED TO THE MACHINE

- **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 are 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.

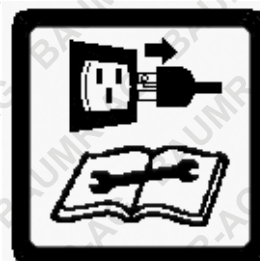
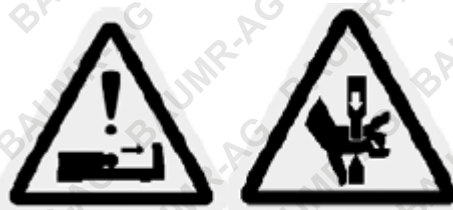
Don't use log splitter for a purpose for which it was not intended.

- **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.



SAFETY WARNINGS & INSTRUCTIONS

SYMBOL AFFIXED TO THE MACHINE

- **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.



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 be less than 50% at 40°C. It can be stored or transported under ambient temperatures between -25°C and 55°C.

Specifications

Model Number		LS7T-52
Motor		230V~ 50Hz 1500W IP54
Log Capacity	Diameter	5 ~ 25cm
	Length	52cm
Splitting Force		7 t
Hydraulic Pressure		16Mpa
Hydraulic Oil Capacity		4.2L
Overall Size	Length	940mm
	Width	260mm
	Height	480mm
Weight		44kg

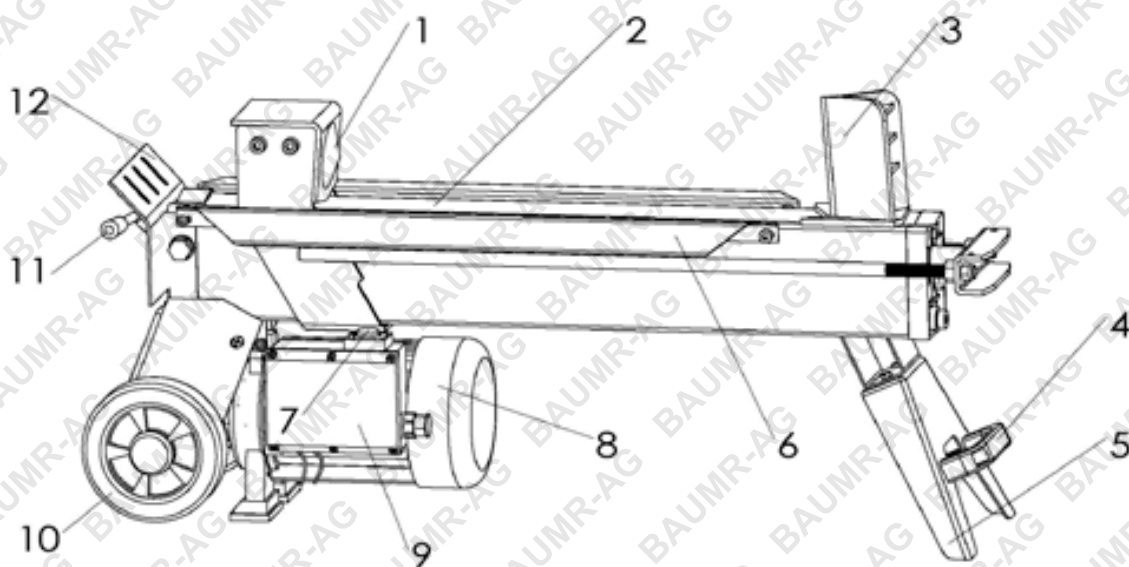
The diameter of the log is indicative – a small log can be difficult to split when it has knobs or a particularly tough fibre. On the other hand, it may not be difficult to split logs with regular fibres even if its diameter exceeds the max. figure indicated above.

Electrical Requirements

Connect the main leads to a 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) with a 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 60 – 75cm 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 | 8. Motor |
| 2. Work Table | 9. Pushbutton Box |
| 3. Wedge | 10. Wheels for Minor Moving ONLY. |
| 4. Lift Handle | 11. Hydraulic Control Lever |
| 5. Support Leg | 12. Control Lever Guard |
| 6. Log Retaining Plates | 13. Bleed Screw |
| 7. Switch | 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 moving through the Bleed Screw hole should be detectable when the log splitter is operating.

Before moving the log splitter, make sure that the Bleed Screw has been tightened to avoid oil leaking at this point.



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

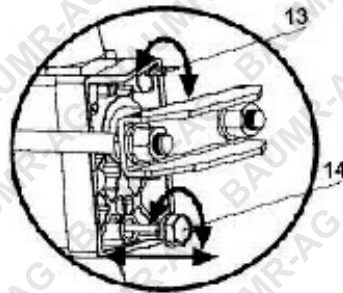
15. Max Pressure Limiting Screw



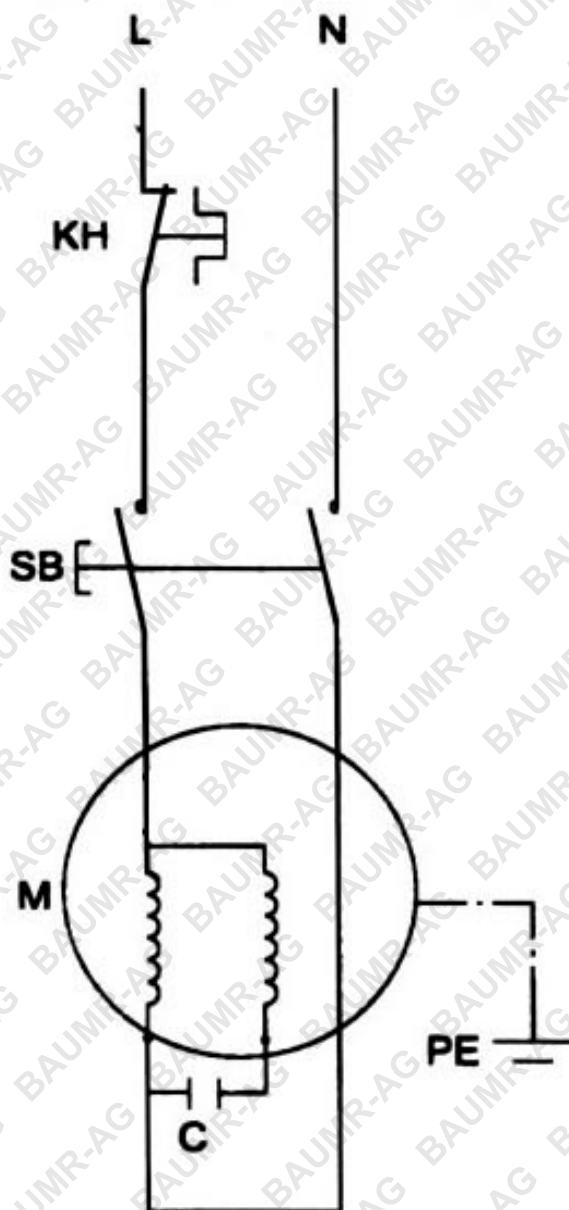
**DO NOT ADJUST THE MAX
PRESSURE LIMITING
SCREW!**

Max pressure was set before the log splitter will work and the max pressure limiting screw is sealed with glue to ensure that the log splitter works under pressure of no more than 7 tons. The setting was done by a qualified mechanic with professional instruments.

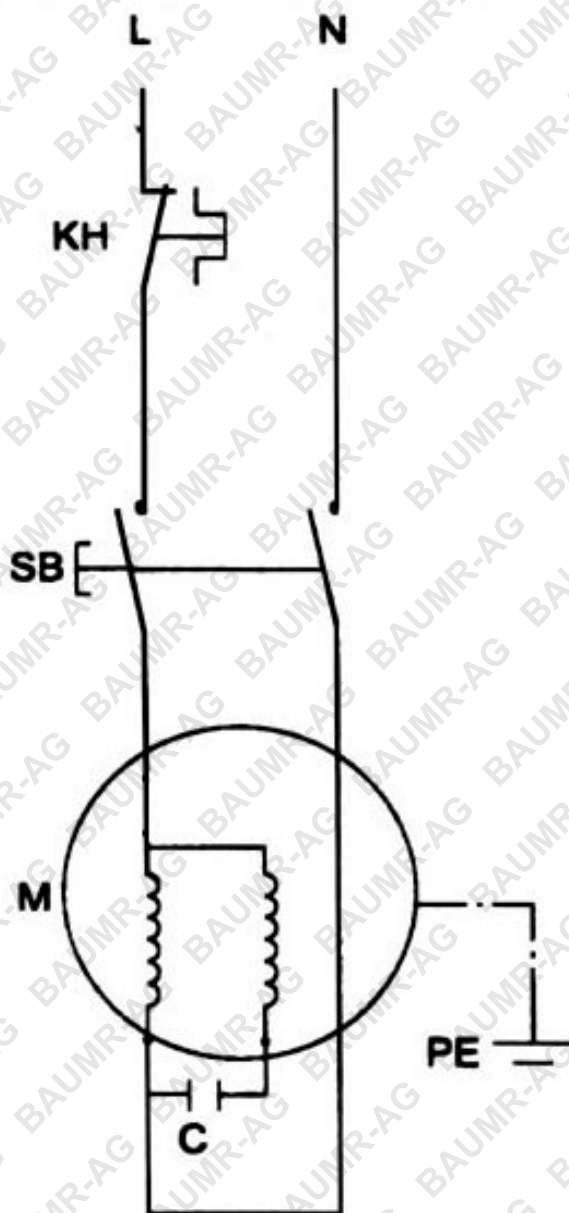
Unauthorized resetting will cause the hydraulic pump to fail to give enough splitting pressure or **WILL RESULT IN SERIOUS INJURY AS WELL AS DAMAGE TO THE MACHINE .**



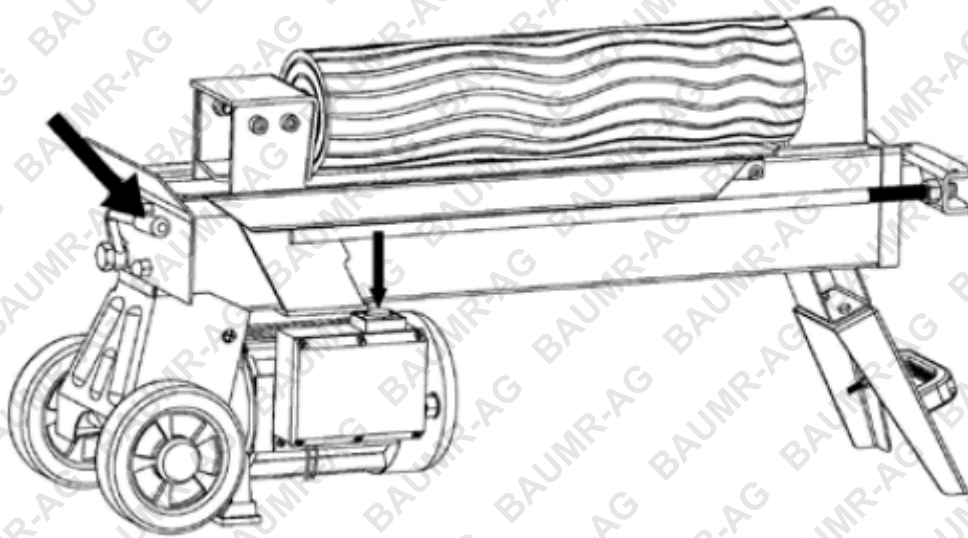
Wiring Diagram



Plumbing Diagram



Log Splitter Operation



This log splitter is equipped with a “ZHB” control system that requires operation by both hands of the user – Left hand controls the hydraulic control lever while the right hand controls the push button switch. The log splitter will freeze upon absence of either hand. Only after both hands are released from the controls will the log pusher start to return backward to the starting position.

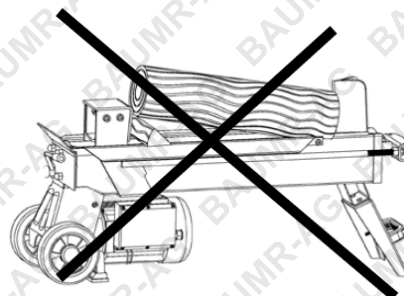
Trigger type lock-out device is adopted to avoid accidental Hydraulic Control Lever pushdown. To operate the Hydraulic Control Lever, draw the Trigger backward with the index finger before pushing the Hydraulic Control Lever forward.



Never force the log splitter to operate 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 logs, 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 the log should be discarded to protect the log splitter.

Always set logs firmly on the log retaining plates and work table. Make sure that 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.

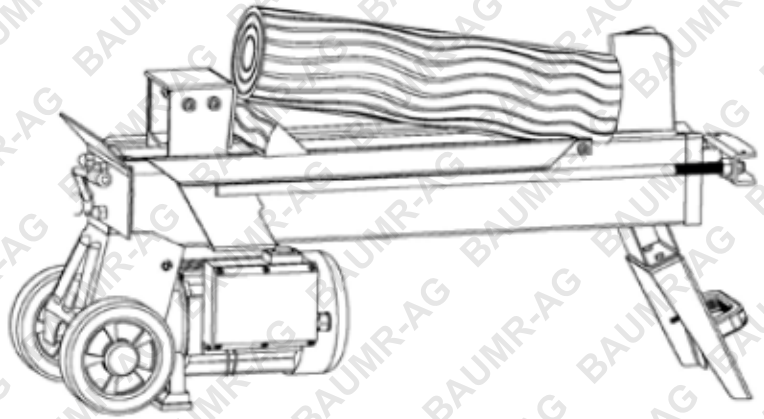


Break the log in the direction of its growing grain. Do not place the log across the log splitter for splitting. It is dangerous and may seriously damage the machine.

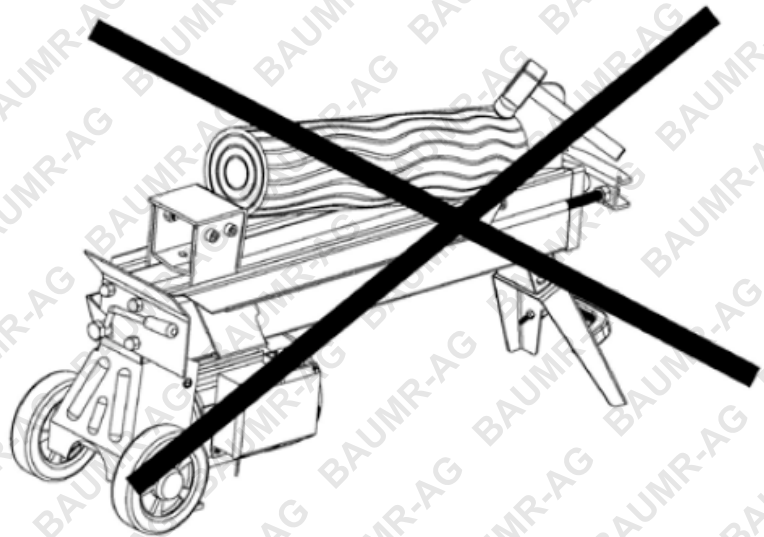
Do not attempt to split 2 pieces of logs at the same time. One might fly up and hit you.

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 it out will damage the machine or may launch the log and cause an accident.



Replacing the Hydraulic Oil

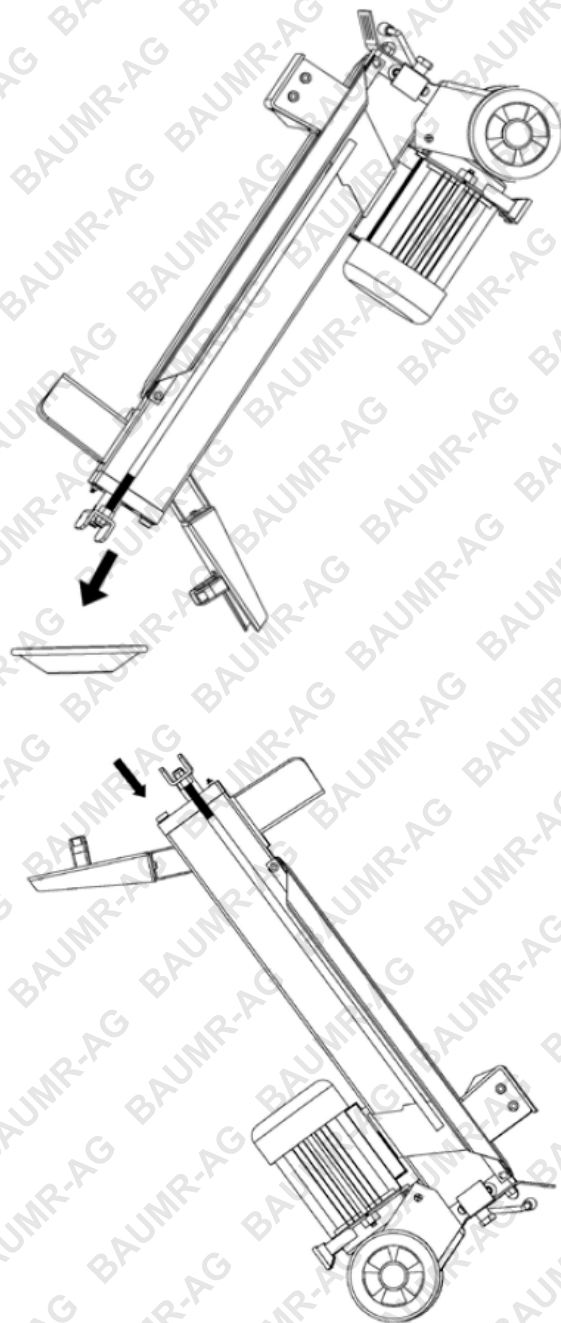
Replace the Hydraulic oil in the log splitter after every 150 hours of use. Take the following steps to replace it:

- Make sure that all moving parts are not moving and the log splitter is unplugged.
- Unscrew the Oil Drain Bolt with the Dipstick to remove it.
- Turn the log splitter on the Support Leg side over a 4-litre capacity container to drain the hydraulic oil off.
- Turn the log splitter on the motor side.
- Refill the hydraulic oil at the volume as per the hydraulic oil capacity of a particular model indicated in the above specifications table.
- Clean the surface of the Dipstick on the Oil Drain Bolt and put it back into the oil tank while keeping the log splitter vertical.
- Make sure that the level of the refilled oil is just between 2 grooves around the Dipstick.
- Clean the Oil Drain Bolt before threading them back. Make sure that they are tightened to avoid leakage before placing the log splitter horizontally.

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

Using hydraulic oils or its equivalents are recommended for the log splitter's hydraulic transmission system:

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



Sharpening the 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.

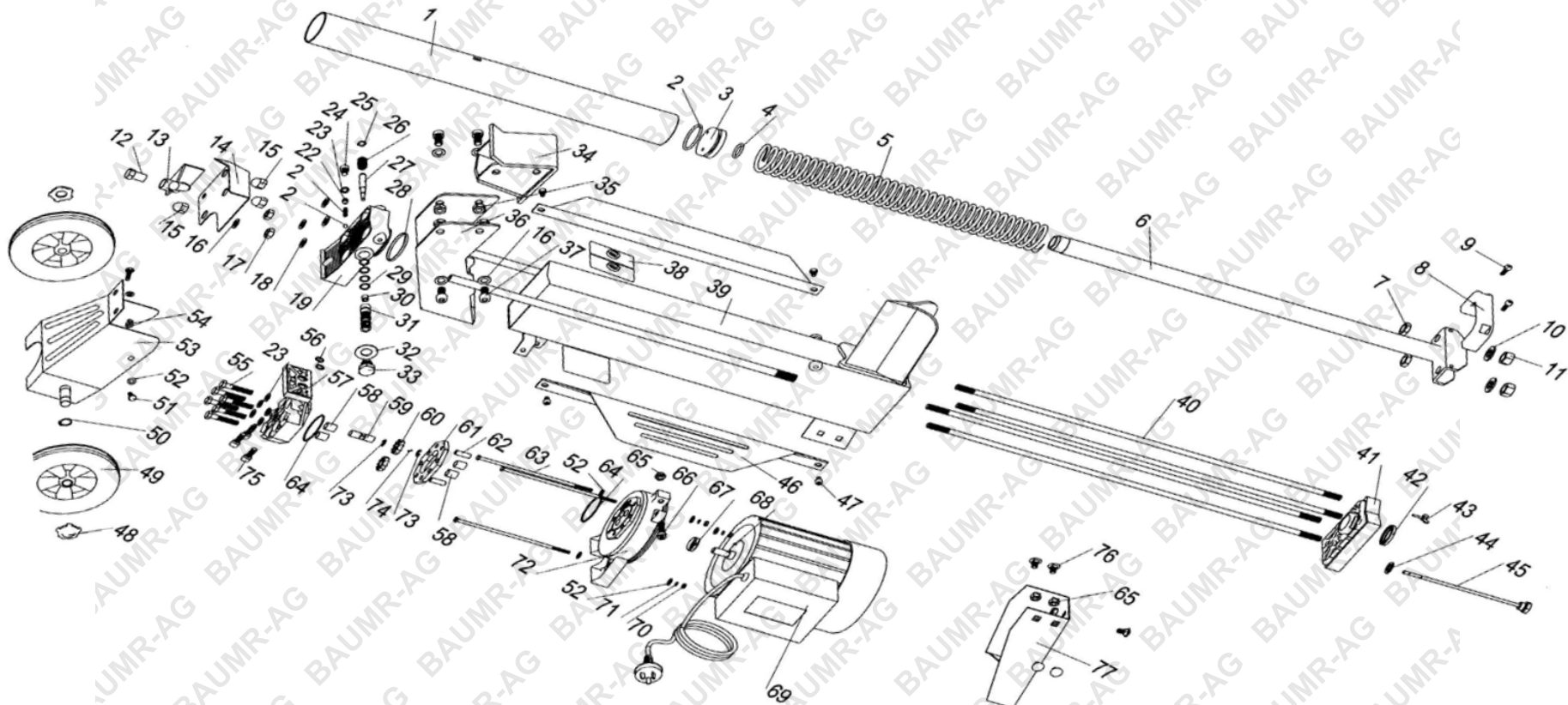
Trouble Shooting

PROBLEM	PROBABLE CAUSE	REMEDY SUGGESTED
Motor suddenly stops	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, emits unfamiliar noises or vibrates 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 the cylinder ram or from other points.	Air is 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.



Electrical waste products should not be disposed of with household waste. Please recycle where facilities exist, check with our local authority or retailer for recycling advice.

Parts Schematic



Electric Log Splitter

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No	Name	Quantity	No	Name	Quantity
1	Oil cylinder	1	30	Inner sheath	1
2	ST-Style gasket 44X55	1	31	Small spindle sheath	1
3	Piston	1	32	Gasket 16	1
4	ST-Style gasket		33	Screw M14X1.5	1
5	Big spring	1	34	Pushing plate	1
6	Piston rod	1	35	Nut M10	4
7	Nuts M14	2	36	Support bracket	1
8	Lift handle	1	37	Inner hexagon bolt M8X15	4
9	Inner hexagon bolt M6X16	2	38	Plastic pad 1	1
10	Washer 14	2	39	Workable tank	1
11	Anti-loose nuts M14	2	40	Two-head bolt	4
12	Fixing nut for handle	1	41	Oil tank aluminum cover	1
13	Operation handle	1	42	CK-type dust-proof ring 30X41.8	1
14	Handle guard	1	43	Butterfly-style Nut M4X16	1
15	Cover-type nut M10	3	44	Gasket 10	1
16	Washer M10	3	45	Oil ruler	1
17	Nuts M10	4	46	Support & Protection guard	2
18	Gasket	4	47	Inner hexagon bolt M6X10	4
19	Aluminum block	1	48	Red plastic cover	2
20	Steel ball S6(diameter)	1	49	Wheel	2
21	Spring 6.2X1.6	1	50	Spindle stop 13	2
22	Fixing bolt M8X8	1	51	Cross half-round head bolt M6X10	2
23	O ring 8X1.8	1	52	Washer 6	5
24	Column head bolt M8X10	1	53	Back steel-plate support	1
25	Stop ring 6	1	54	Nut M6	2
26	Small Spring 7.8	1	55	Six angle head bolt M8X55	6
27	Small spindle	1	56	O ring 10X2.65	2
28	Gasket 55X3.1	1	57	Gear pump housing	1
29	O ring 10.6X1.8	5	58	Roll spindle 13X11X15	2
59	Gear spindle	1			
60	Gear	2			

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No	Name	Quantity	No	Name	Quantity
61	Middle clapboard	1			
62	Column pin 8X25	2			
63	Motor connecting spindle	3			
64	Ring 46.2X1.8	2			
65	Nut 6	6			
66	Inner six angle bolt M6X30	1			
67	Framework oil seal	1			
68	Motor spindle	1			
69	Motor	1			
70	Nut 6	3			
71	Stretching pad 6	3			
72	Frontal aluminum cover of motor	1			
73	steel stop 11	1			
74	Ball 2.5	1			
75	Six angle head nut M8X30	3			
76	Bolt with small half round head and low square neck M8X20	5			
77	Frontal support stand	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

- 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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