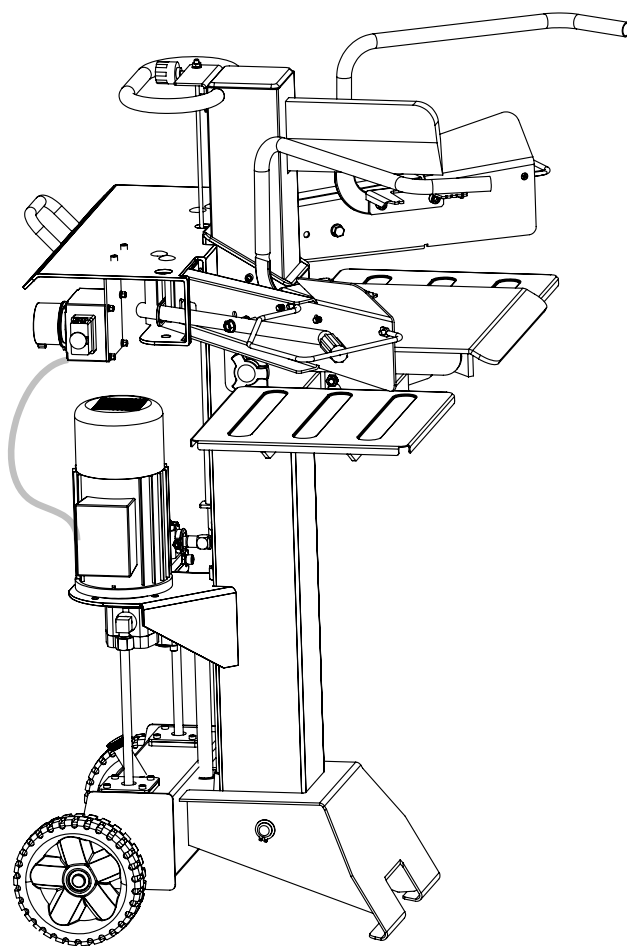




**ORIGINAL INSTRUCTIONS MANUAL**

**ELECTRIC LOG SPLITTER**






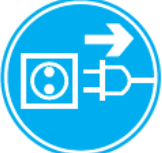





**RACFBE7T55**






**RACING**

32, rue Aristide Bergès - ZI 31270 Cugnaux – France



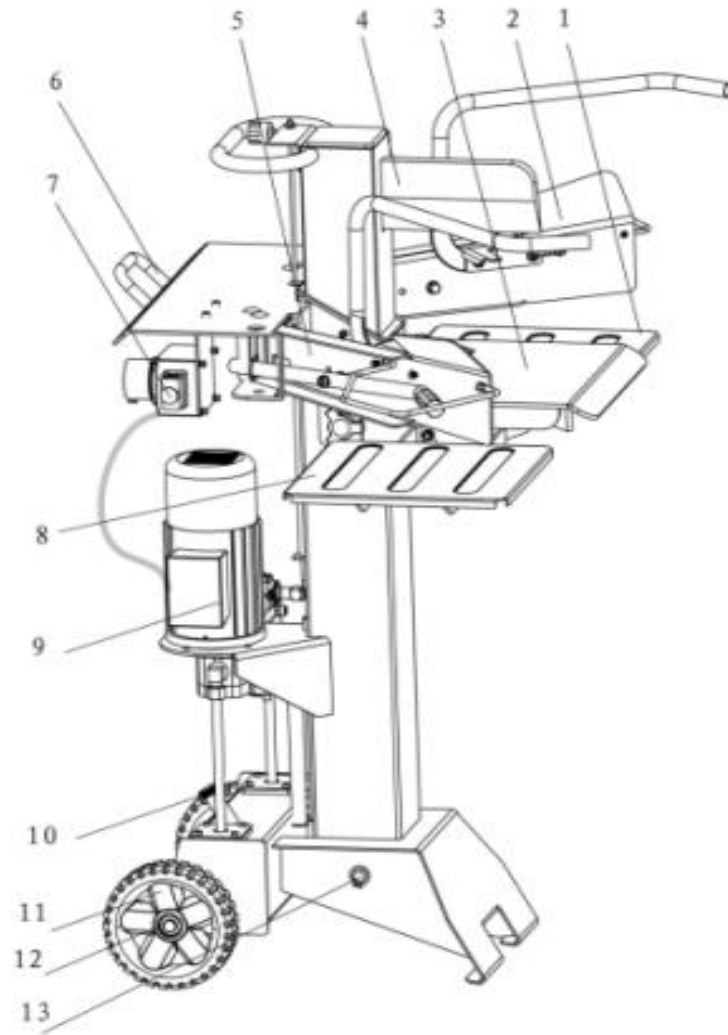
	Read manual before operation
	Use safety footwear
	Use work gloves
	Wear ocular protection
	Use hearing protection
	Remove plug from mains before maintenance or if cord is damaged
	Other people should keep a safe distance from the work area, especially when the log splitter is under operations.
	WARNING! Electricity - Risk of electric shock.
	The log splitter must be always operated by one person only. Never use another people to help you with freeing jammed log.
	No smoking in the working area
	Keep hands out of the way of all moving parts. "Danger! Keep clear of moving parts!"

	Warning: Risk of slipping
	Warning: Floor-level obstacle
	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.

**For your safety**

**Read and understand the entire manual before operating the machine.**

**Save This Manual for Future Reference.**

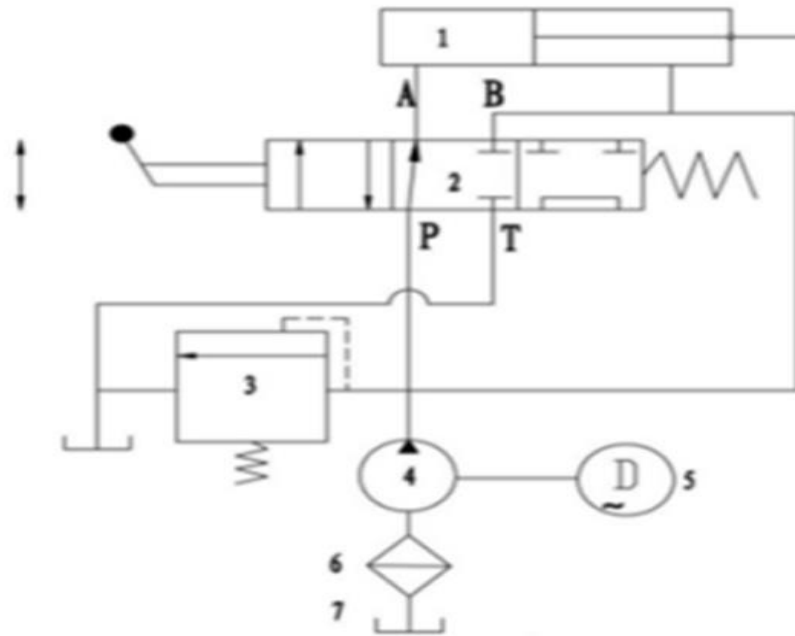


- |  |                             |                         |                            |
|--|-----------------------------|-------------------------|----------------------------|
| <b>1. right storage;</b>                   | <b>2.right log support;</b> | <b>3.working table;</b> | <b>4.splitting wedge;</b>  |
| <b>5. left handle guard;</b>               | <b>6.transport handle;</b>  | <b>7.switch;</b>        | <b>8.left log support;</b> |
| <b>9. motor(3KW\230V);</b>                 | <b>10.oil dipstick;</b>     | <b>11.wheel;</b>        | <b>12.axle;</b>            |
| <b>13. Connecting shaft (for cylinder)</b> |                             |                         |                            |

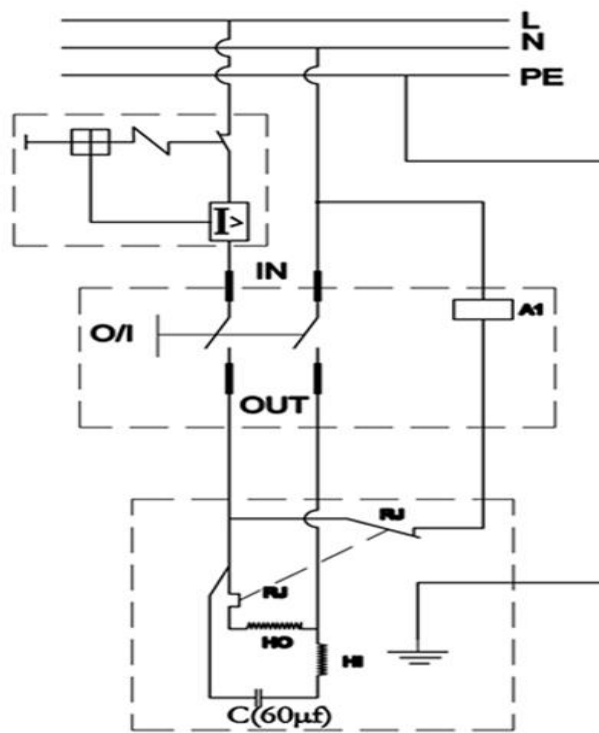
## Technical data

Engine		Electrical motor
Input power(P1)	kW	3.0
Voltage	V	230V~ 50Hz
Motor speed	/min	2800
Operating mode		S6/40%
Dimensions L/W/H	mm	955*750*1575
Height of the lowered cylinder	mm	1110
Splitting force	ton	7
Weight	kg	108
Working speed	cm/s	$5 \pm 0.5$
Return speed	cm/s	$12 \pm 0.5$
Hydraulic oil capacity	l	4
Guarantee sound power level:	dB(A)	92
Degree of protection		IP54
Hydraulic pressure	mPa	24
Cutting length	mm	550
Log size capacity diameter	mm	70-400

## Hydraulic diagram

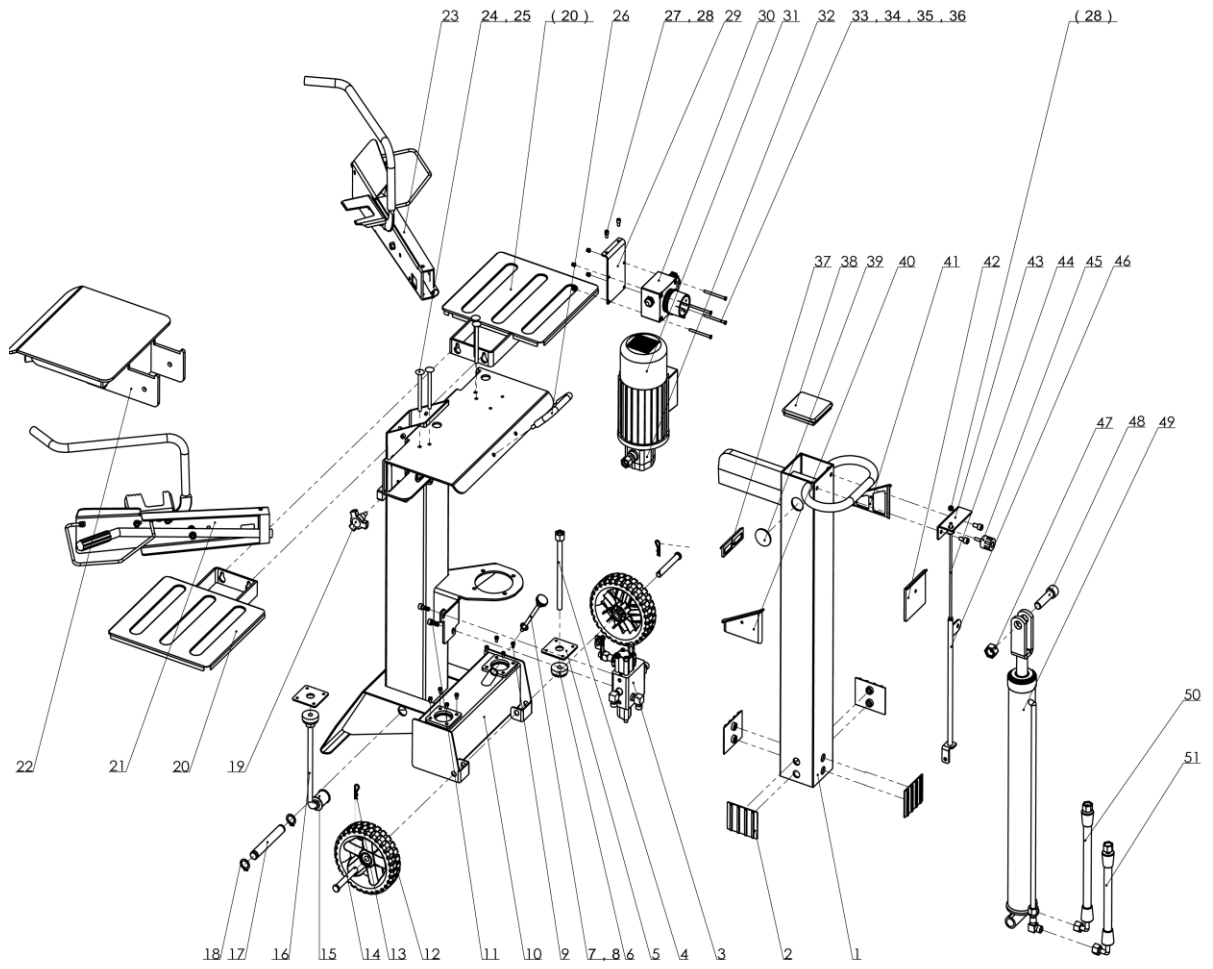


## Wiring diagram



VLS7T-55eH

### Exploding view



## **SAFETY WARNINGS**

### **Keep these instructions for future reference**

1. The log splitter must always be used by one operator only.
2. Nobody must be allowed to use the log splitter unless they have read the instruction manual and have been instructed in the regulations to follow for correct and safe use.
3. Operators must receive necessary training and instructions.
4. The machine must be used by adults only. Use of the log splitter by apprentices of not less than 16 years of age must be supervised by an adult authorized to use the machine.
5. Never wear loose, unbuttoned clothing which may become trapped in moving parts.
6. Check that the logs to be split are free from nails or wire, which may fly up or damage the machine, the ends of the logs must be cut square, branches must be cut off flush with the trunk.
7. Never try to split logs larger than those indicated in the technical specifications. This could be dangerous and may damage the machine.
8. Break wood in the direction of the grain, do not place wood across the log splitter and leave it in that position for splitting; it may be dangerous and may seriously damage the machine.
9. Never attempt to cut two logs at once, one may fly up and hit you.
10. If the log moves away from the blade, retract the blade and turn the log through 90°.
11. Do not attempt to load the log in the log splitter while the blade is in motion, you could get trapped and injured.
12. Keep your hands well away from any splits and cracks which open in the log; these may close suddenly and crush or amputate your fingers.
13. Never force the log splitter for more than 5 seconds keeping the cylinder under pressure in the attempt to split excessively hard wood. After this time interval, the oil under pressure is overheated and the machine could be damaged. It is thus better to stop and rotate the log by 90° to see whether it can be split in a different position. 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 so as not to damage the log splitter.
14. Do not force the blade by pushing the log on the upper part, as this can cause the blade to break or damage the body of the machine. Always set the log on the guides.
15. Never leave the machine unattended while it is running. If you leave the machine, even for a short time, remove the power supply or any possible cause of accidental start-up.
16. The log splitter must never be used by an operator who is under the influence of alcohol, drugs,



medicines, or who is tired. A clear mind is essential for safety.

17. Never request the assistance of another person to help you remove a jammed log.
18. Do not use machines with electric motor if natural gas, petrol fumes or other inflammable vapors are present.
19. 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.
20. Check on the functioning of the machine.
21. Never open the switch box on the motor. Should this be necessary, contact a qualified electrician.
22. Make sure that the machine and the cable never come in contact with water.
23. Treat the power cable with care, do not attempt to move the machine by pulling the cable, and do not yank the cable to unplug it; keep the cable away from excessive heat, oil and sharp objects.
24. Never leave the machine unattended with the power supply “on”, also disconnect the power cable when not in use, when carrying out maintenance work, when changing attachment or moving the machine.
25. Before starting work, hydraulic pipes and hoses shall be inspected and the stopping devices shall be tested.
26. Stop the machine before cleaning or making adjustments.
27. The hazards may arise from particular characteristics of wood when being split (e.g. knots, logs of irregular shape etc.).
28. Operator must receive necessary training and instruction from a qualified person before handling the tool.
29. Use the tool only for the intended use. Misuse (such using material other than log) can damage the tool and cause accidents and injuries.
30. The splitting operation of the machine is designed to be activated by one person. While there is the possibility that additional operators could be working with the machine (e.g. for loading and unloading), only one operator should activate splitting operations;
31. The machine shall not be used by children
32. Wear suitable personal protective equipment (PPE) including safety footwear close fitting clothing and suitable work gloves, eye protection and hearing protection.
33. Tests of the machine's safety devices before use the tool. If safety devices do not work properly, do not use the tool and bring it to a qualified technician for inspection and reparation.
34. The working area shall be free from obstructions; before installation and operation, clear the working area. Keep the working area free from obstructions, e.g. logs, split wood, etc.
35. Do not reach into the splitting zone.

**The machine is built according to the current state of technology and generally recognized safety standards, however, individual residual risks may occur when working with the machine.**

- . Risk of injury to fingers and hands from the cleaver, in the event of improper guidance or support of the wood.
- . Risk of injury from the ejection of the work piece, in the event of inappropriate support or guide.
- . Exposure to electric current, when using inappropriate electric connecting cables.
- . Furthermore, unapparent risks may remain, despite of all the measure taken.
- . Residual risks can be minimized, if the safety instructions, the proper use and the operating instructions are observed.

## 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 20°C to +60°C

This machine must be used and fixed on suitable work table to comply with the height of the control actuators between 850-1650mm from the ground (880 mm recommended).

### Transport instructions

Transport by hand, Fig.1

To transport the machine, completely retract the cleaver blade1. Slightly incline the splitter on the cleaver column, using the handle 2, until the machine tilts on to the wheels and thus can be moved.

Transport by crane:

Never lift by the cleaver blade!

Storage conditions:

Observe the following conditions during storage:

- . Dry, indoor location
- . Max. Humidity 80%
- . Temperature range -20°C to +60°C

Only operate the machine under the following ambient conditions:

	minimum	maximum	recommended
Temperature	5°C	40°C	16°C
Humidity		95%	70%

Set up

Prepare the location where the machine is to be installed.

Provide sufficient space to ensure safe, trouble-free working conditions.

The machine is designed for use on level surface and therefore must be set up on a stable, level and firm surface.

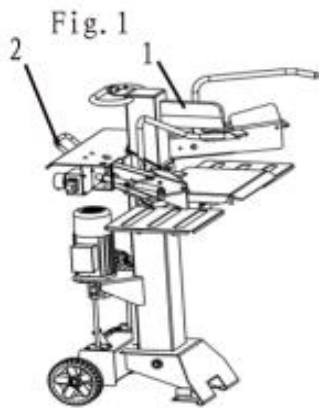


Fig. 2

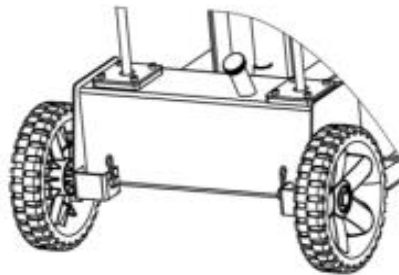


Fig. 3

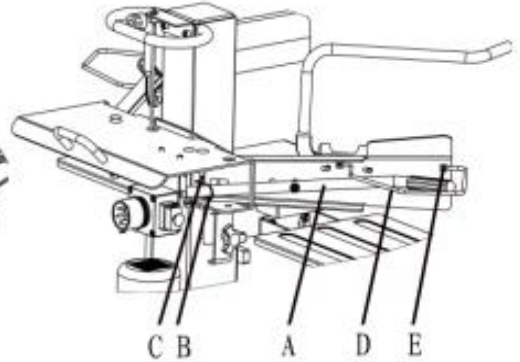


Fig. 4

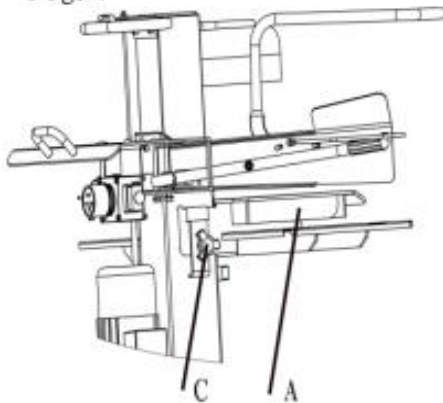
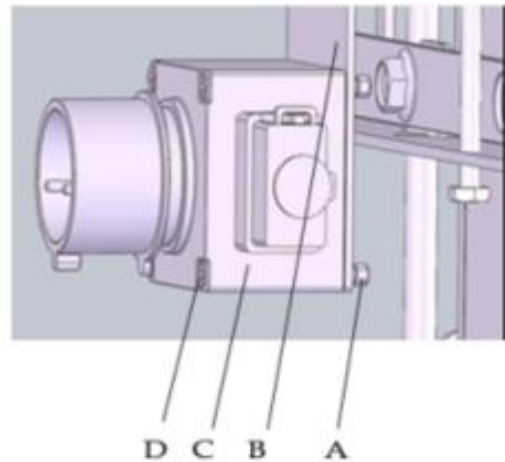


Fig.5



**Assembly**

For packing reasons, your log splitter is not completely assembled.

Mounting the wheels, Fig.2

Assemble on both sides a wheel with a washer and secure both with an R-pin.

**Mounting the control arms, Fig.3**

- . Insert the control arm (A) in the rocker switch (B), and screw it in place with the hexagon bolt(C), the washer and the safety nut. Tighten the lock nut so the control arm can still be moved.
- . Now mount the control arm on the right, following the method described above.
- . Mount the hoop guards (D) to both control arms, using 2 crosshead screws (E) in each case.

**Mount the working table, Fig.4**

Depending on the length of the timber to be cleaved, the table (A) can be mounted at one heights: 55cm.

Locking knobs (C) are available at this position.

Fig. 6

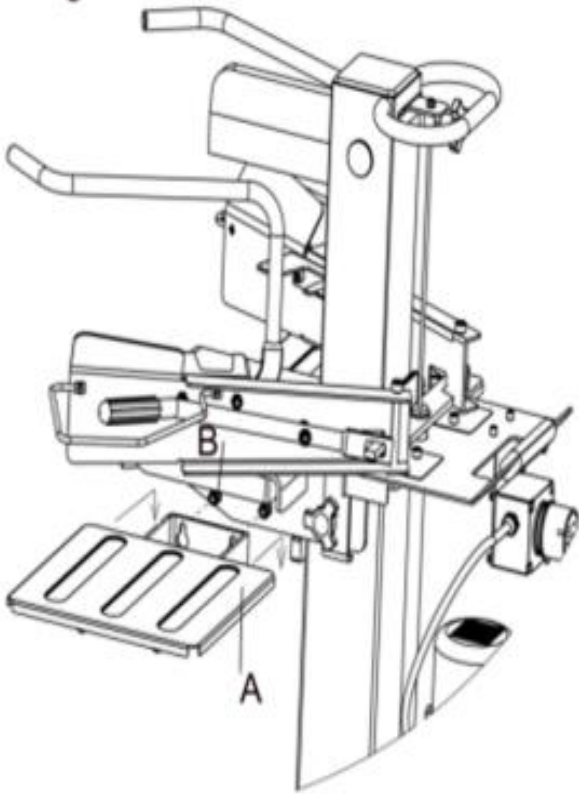
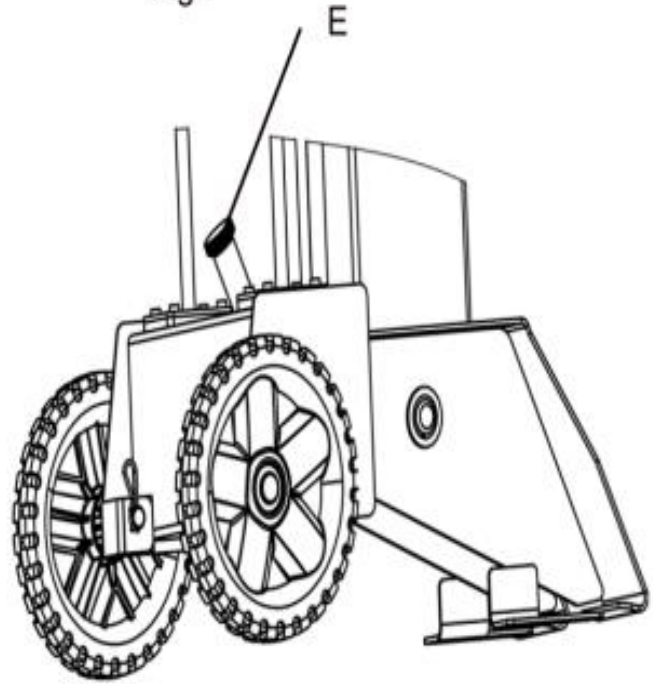


Fig.7



**Mount the switch, Fig.5**

Mount the switch (C) to the board (B), fixed with 4-M4\*60 cross cap bolt (D) and 4-M4 nuts.

**Mount the left/right storage, Fig.6**

The left storage (A) can be mounted according to the direction in Fig.6, and fix with two lock nuts M8 (B).

With the same method, you can mount the right storage.

**Function test**

A functional test must be performed prior to each use.

Action	Result
Press both handles down	Cleaver blade goes down-to approx.10cm above the working table.
Release one handle at a time	Cleaver blade remains in the selected position.
Release both handles	Cleaver blade runs back to the upper position.

## Splitting

- . Place the log on the log splitter table, hold the log firmly with the two control handles, and press both operating handles down simultaneously. Once the cleaver blade penetrates into the log, push the handles outward with simultaneous pressure downward. This prevents pressure from being exerted on the retaining plates.
- . Only cleave logs that are sawed straight off.
- . Cleave the logs vertically.
- . Never split horizontally or crosswise.
- . Wear safety gloves when cleaving the logs.

Efficient operation:

- . Upper position approx.5cm above the log.
- . Lower position approx.10cm above the log.

## Start-up

Ensure that the machine is assembled completely and correctly before each use, and check:

- . The connecting cables for defects (splits, cuts, etc.).
- . The machine for any damage.
- . All screws are tightening.
- . For any possible leaks in the hydraulic system.
- . The oil level
- . Protection guard
- . Hydraulic hose and soft hose

## Venting, Fig.7

Bleed the hydraulic system, before you put the log splitter into operation.

- . Loosen the dipstick (E) by a few turns, so that air can escape from the oil tank.
- . Leave the cap open during operation.
- . Close the cap again, before moving the splitter, otherwise the oil may leak.
- . If the hydraulic system is not vented, the trapped air will damage the seals and thus the splitter.

Fig.8



Fig.9



## Switching on/off, Fig.8/9

Open the protective cap (C).

Press the green button (A) to switch the appliance on.

Press the red button (B) to switch the appliance off.

Press the emergency stop (D), in the event of emergencies.

**Note:** prior to each use, check the function of the on/off switch by switching the device on and off.

### Restart protection in case of power failure (No-voltage release switch)

The equipment will switch off automatically in the event of a power failure, accidental removal of the plug or if a fuse is triggered. Press the green button on the switch until to restart the machine.

### Finishing work

- Bring the cleaver blade to the lower position.
- Release one of the control arms.
- Switch the machine off and disconnect the power.
- Tighten the bleed screw.
- Follow the general maintenance instructions.

## Electrical connection

Check the electrical connecting cables regularly for any damage. When checking the connecting cables, make sure that they are not connected to the mains.

Electrical connecting cables must comply with the relevant VDE and DIN regulations. Only use connecting cables labeled H07RN.

It is mandatory that the type designation be printed on the connecting cable.

Use a portable safety switch (PRCD), if a residual-current -operated protective device (RCD) with a nominal residual current of max.0.03 A is not provided in supply network.

### Defective electric connecting cables:

## **Connecting cables often suffer insulation damage.**

### **The causes are:**

- . Pressure marks, when the connecting cables are led through windows or door gaps.
- . Kinks, due to improper mounting or leading of the connecting cables.
- . Cuts, from crossing the connecting cables.
- . Insulation damage, from pulling the cables out of the wall socket.
- . Cracks, due to the aging of the insulation.

**Such defective electric connecting cables must not be used and are dangerous to life because of the damaged insulation!**

13

## **Ac motor 230V/50HZ**

### **Supply voltage 230V/50HZ.**

The mains connection and the extension cable must be 3-wire=P+N+SL. (L/N/PE).

The extension cables must have a minimum cross section of 1.5mm<sup>2</sup>.

The mains connection is fused for a maximum of 16 A.

## **Maintenance and repair**

Only carry out conversion, adjustment and cleaning work when the machine is switched off.

Disconnect the appliance.

Skilled mechanics may carry out small repairs on the machine.

**Repair and maintenance work on the electrical system may only be carried out by qualified electricians.**

**All protective and safety devices must be immediately replaced after repair and maintenance work.**

### **We recommend:**

- . Clean the machine thoroughly after each use.

- . **Cleaver blade**

The cleaver blade is a wearing part that should be reground or replaced with a new blade, as required.

- . **Two -hand guard**

The combined clamping and control device must remain smooth running. Lubricate occasionally with a few drops of oil.

- . **Moving parts**

Keep the cleaver blade guides clean. (Dirt, wood chips, barks, etc.)

Lubricate the slide rails with oil spray or lubricating grease.

- . Checking the hydraulic oil level

Check hydraulic fittings and connections for leaks and wear. If necessary, tighten the bolted connections.

Fig.10

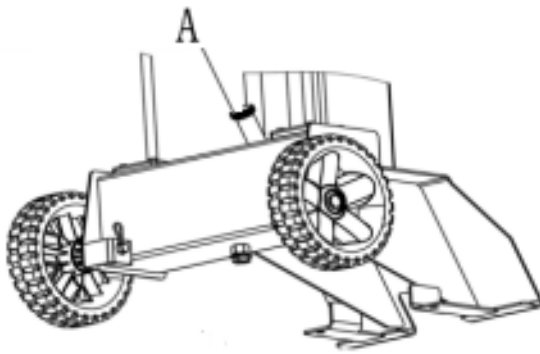
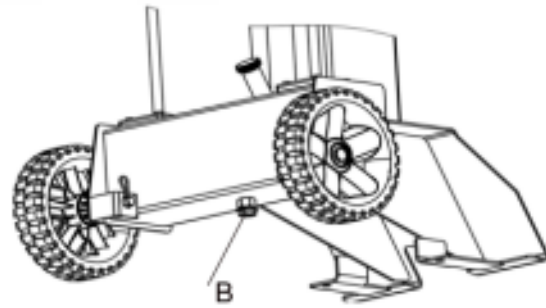


Fig.11



### Checking the oil level

The hydraulic system is a closed system with oil tank, oil pump and control valve. Check the oil regularly before each use. Too low an oil level can damage the oil pump. The oil level must lie within the marks on the dipstick.

The cleaver column must be retracted before checking the oil; the machine must be on a level surface.

### When should I change the oil?

The first oil change should be carried out after 50 hours use, and then after every 500 hours use.

### Changing the oil, Fig.10/11

- . Moving the cleaver column in completely.
- . Place a container
- . Loosen the vent cap **A**.
- . Open the drain plug **B** located under the oil tank to allow the oil to flow out.
- . Close the drain plug **B** again.
- . Pour in 4 l of new hydraulic oil using a funnel.
- . Replace the vent cap.

**Dispose of the waste oil properly at a local oil disposal point. The waste oil must not be poured into the ground or mixed with other waste.**

### We recommend the following hydraulic oils:

Aral vitam gf 22

Bp energol HLP-HM22

Mobil DTE 11

Shell Tellus 22 or equivalent

**Do not use any other types of oil!** The use of any other type of oil will adversely affect the operation of the hydraulic cylinder.

### Splitter blade

The splitter blade must be slightly lubricated before commissioning. This procedure must be repeated after every 5 hours use. Lightly apply grease or spray oil. **The blade must not run dry.**

### Hydraulic system

The hydraulic system is a closed system with oil tank, oil pump and control valve.



Do not alter or tamper with the factory installed system.

Check the oil level regularly.

Too low an oil level can damage the oil pump.

Check the hydraulic and screw connections regularly for leaks, tighten them if necessary.

Clean the work area and keep the appropriate tools in good condition before starting any maintenance and inspection work.

The time intervals indicated here refer to normal use, hence; if the machine is exposed to heavy loads, reduce these times accordingly.

Only clean the machine enclosures, the covers and control levers with a soft, dry cloth or dampen it slightly with neutral detergent; do not solvents, such as alcohol or gasoline, because they can damage the surface.

Keep oils and lubricants out of the reach of unauthorized personnel; read the instructions on the containers carefully and follow them without fail, avoid direct contact with skin and rinse well after use.

### **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.

### **⚠ Accident prevention standards**

The machine must only be operated by qualified personnel, who are familiar with the contents of this manual.

Please check that the safety devices are whole and working correctly before using the machine.

You should also familiarize yourself with the machine's control mechanisms, by reading the operating instructions carefully before using the machine.

The machine's stated performance must not be exceeded. The machine must never be used for any purpose other than the one for which it is intended.

In accordance with the regulatory laws of the country, in which the machine is used, personnel must also wear working clothes as prescribed in that countrywide. Do not wear loose, flittering clothes, belts, rings and necklaces; long hair should preferably be tied back.

The work area should always be kept as neat and clean as possible, and tools, accessories and screw wrenches must always be within easy reach.

During cleaning and maintenance work, the machine must never be connected to the electric mains.

**Never** operate the machine without the safety devices or with the safety mechanisms turned off.

**Never** remove or modify the safety devices.

**Do not carry out any maintenance or adjustment work before carefully reading this manual.**

The periodical maintenance plan specified in this manual must be observed, both safety reasons and for the

efficient operation of the machine.

Always keep the safety labels clean and legible and pay attention to them without fail to prevent accidents; if the safety labels are damaged or lost, or are among the parts, which have been replaced ,they must be replaced with new ,original labels, and be affixed to the specified position; you can obtain new labels from the manufacturer.

In the event of fires, only use powder fire extinguishers. Do not extinguish fire in the machine with water; otherwise, there is a risk of a short circuit.

If the fire cannot be extinguished immediately, pay attention to leaking liquids.

In the event of a longer fire, the oil tank or the lines, which are under pressure, can explode: therefore, make sure you do not come into contact with leaking liquids.

### **Dismounting and disposal**

The machine does not contain any harmful or polluting substances, as it is made of completely recyclable materials or of materials that can be disposed of in the normal way.

For disposal, contact specialist companies or qualified personnel who are well acquainted with the potential dangers and who have read and follow the present operating instructions strictly.

When the machine is no longer of use, proceed as follows, paying attention to all the accident prevention standards:

- . Disconnect the energy supply (electric or PTO).
- . Remove all power cables and take them to a specialized collection point, in accordance with the applicable provisions in the respective country.
- . Empty the oil tank; take the oil in sealed containers to a collection point, in accordance with the applicable provisions in the respective country.

**Make sure that every machine part is disposed to in accordance with the applicable provisions in the respective country.**

# EC-declaration of conformity



Declaration of conformity

**RACING**

ZI du Casque, 32 rue Aristide Bergès – 31270 Cugnaux - France

Declares that the machine:  
ELECTRIC LOG SPLITTER  
**RACFBE7T55**

Is in conformity with the following standards and Directives

**Machine directive 2006/42/EC**

**EMC Directive 2014/30/UE**

**ROHS 2011/65/EU**

**EN609-1: 2017**

**EN60204-1: 2006+A1:2009**

EN 55014-1:2017

EN 55014-2:2015

EN 61000-3-2:2014

EN 61000-3-11:2000

The people name holding the technical file: Mr Olivier Patriarca

Cugnaux, 28/07/2019