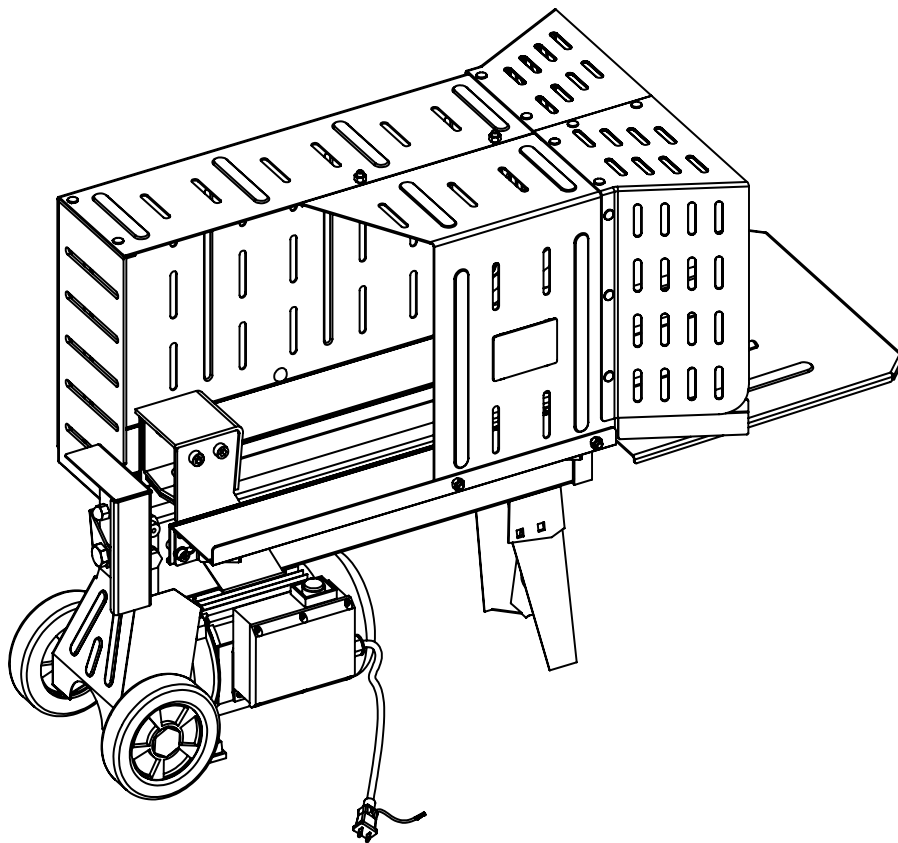


ORIGINAL INSTRUCTIONS

**FEIDER**  
MACHINES

**ELECTRIC LOGSPLITTER**

FFBE4T-UK



**READ THIS INSTRUCTIONS MANUAL BEFORE USING THE TOOL**

FEIDER 32, rue Aristide Bergès - ZI 31270 Cugnaux – France Made in PRC 2019



## 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.

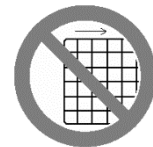
Keep your work area clean and well lighted. Cluttered areas invite injuries.

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 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.



- **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 2.5mm<sup>2</sup> 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, please 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.

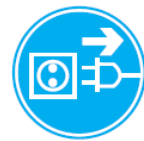
Don't use log splitter for a purpose for which it was not intended.

### ● 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.

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.  
Operators must receive necessary training and instructions.
3. 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.
4. Never wear loose, unbuttoned clothing which may become trapped in moving parts.
5. 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.
6. Never try to split logs larger than those indicated in the technical specifications. This could be dangerous and may damage the machine.
7. 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.

8. Never attempt to cut two logs at once, one may fly up and hit you.
9. If the log moves away from the blade, retract the blade and turn the log through 90°.
10. Do not attempt to load the log in the log splitter while the blade is in motion, you could get trapped and injured.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. Never request the assistance of another person to help you remove a jammed log.
17. Do not use machines with electric motor if natural gas, petrol fumes or other inflammable vapors are present.
18. 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.  
Check on the functioning of the machine.
19. Never open the switch box on the motor. Should this be necessary, contact a qualified electrician.
20. Make sure that the machine and the cable never come in contact with water.
21. Treat the power cable with care, do not attempt to move the machine by pulling the cable, do not yank the cable to unplug it; keep the cable away from excessive heat, oil and sharp

objects.

22. 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.
23. Before starting work, hydraulic pipes and hoses shall be inspected and the stopping devices shall be tested.
24. Keep the working area free from obstructions, e.g. logs, split wood etc.
25. Stop the machine before cleaning or making adjustments.
26. The hazards may arise from particular characteristics of wood when being split (e.g. knots, logs of irregular shape etc.)
27. Operator must receive necessary training and instruction from a qualified person before handling the tool.
28. Use the tool only for the intended use. Misuse (such using material other than log) can damage the tool and cause accidents and injuries.
29. 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.
30. The machine shall not be used by children.
31. Wear suitable personal protective equipment (PPE), including safety footwear; close fitting clothing and suitable work gloves, eye protection and hearing protection.
32. Before starting work, hydraulic pipes and hoses shall be inspected and the stopping devices shall be tested.
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 repair.
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 leave the machine unattended when running;
36. Do not reach into the splitting zone;

## **Symbols**



**WARNING!** Electricity - Risk of electric shock.



Warning: Floor-level obstacle



Warning: Risk of slipping



No smoking in the working area



The log splitter must be always operated by one person only. Never use another people to help you with freeing jammed log.

## 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.

This log splitter is only intended to be used to split logs! Serious injury may occur if this log splitter is used for any other purpose.

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.

## SPECIFICATIONS

<b>Model Number</b>		FFBE4T-UK
<b>Motor</b>		230V~ 50Hz 1500W S3 50% IP54
<b>Speed</b>		2800/min
<b>Log Capacity</b>	<b>Diameter</b>	5 ~ 25cm
	<b>Length</b>	37cm
<b>Splitting Force</b>		4t
<b>Hydraulic Pressure</b>		16Mpa
<b>Hydraulic Oil Capacity</b>		2.4 L
<b>Overall Size</b>	<b>Length</b>	1100mm
	<b>Width</b>	480mm
	<b>Height</b>	705mm
<b>Weight</b>		54 kg
<b>Noise level</b>		91dB(A)

The diameter of the log is indicative – a small log can be difficult to split when it has knots 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

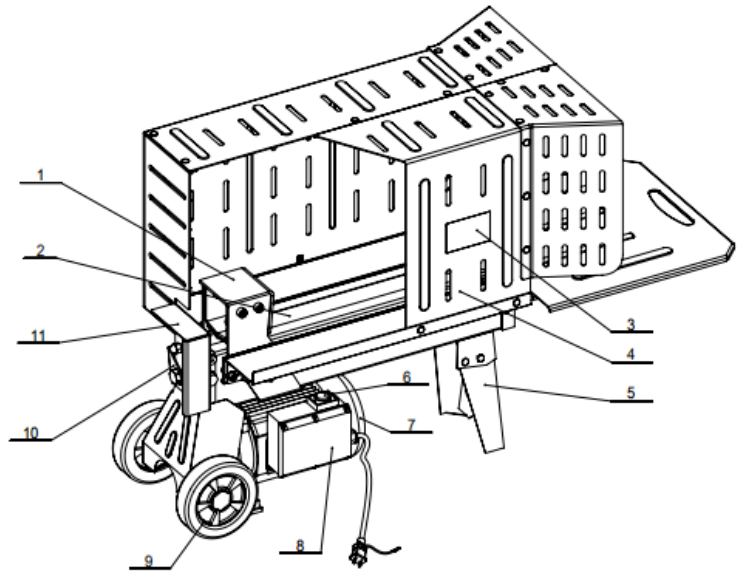
Connect the main leads to a standard 230V $\pm$ 10% (50Hz $\pm$ 1Hz) electrical supply which has protection devices of under-voltage, over-voltage, over-current as well as a residual current device (RCD) which maximum residual current rated at 0.03A.

## 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
2. Work Table
3. Wedge
4. Shield
5. Support Leg
6. Switch
7. Motor
8. Pushbutton Box
9. Wheels for Minor Moving ONLY.
10. Hydraulic Control Lever.
11. Control Lever Guard
12. Bleed Screw
13. 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.**



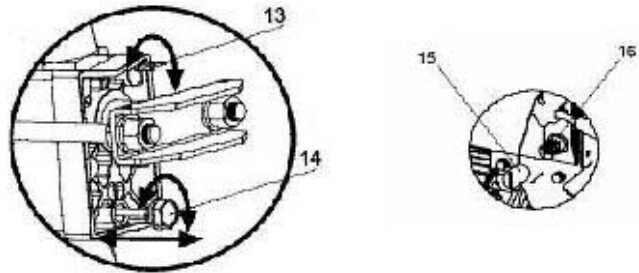
***FAILED TO LOOSEN THE BLEED SCREW WILL KEEP THE SEALED AIR IN HYDRAULIC SYSTEM BEING COMPRESSED AFTER BEING DECOMPRESSED. SUCH CONTINUOUS AIR COMPRESSION AND DECOMPRESSION WILL BLOW OUT THE SEALS OF THE HYDRAULIC SYSTEM AND CAUSE PERMANT DAMAGE TO THE LOG SPLITTER.***

15. Max Pressure Limiting Screw

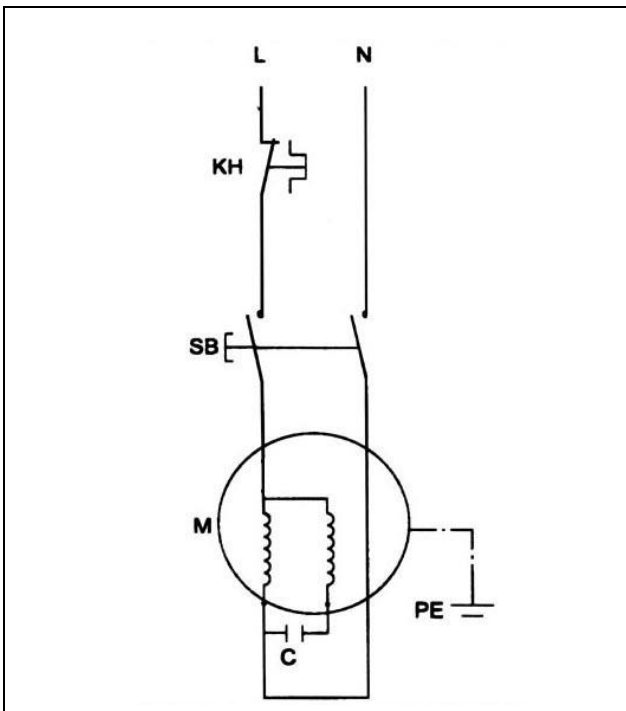
**DO NOT ADJUST THE MAX PRESSURE LIMITING SCREW!**

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.

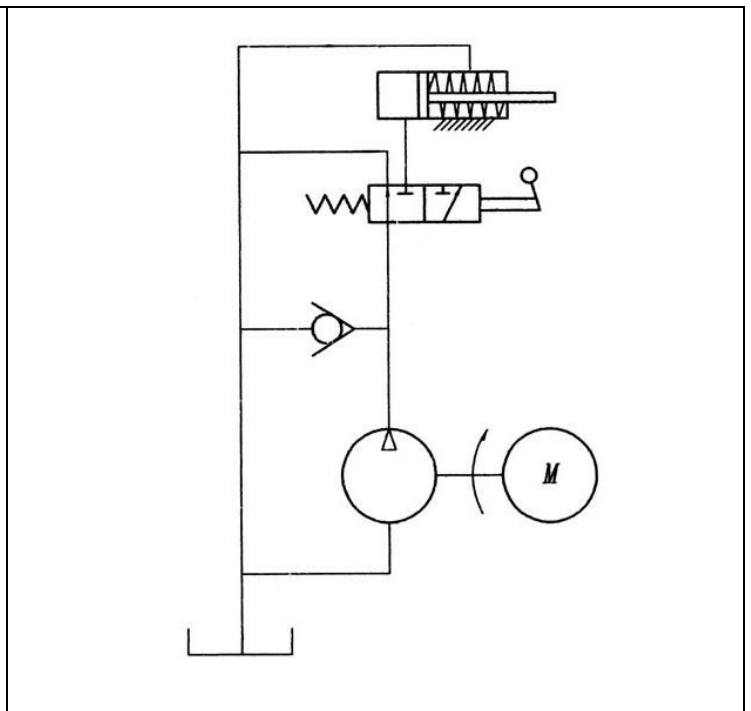
Unauthorized resetting will cause the hydraulic pump fail to output enough splitting pressure or **RESULT IN SERIOUS INJURY AS WELL AS DAMAGE TO THE MACHINE.**



**WIRING DIAGRAM**

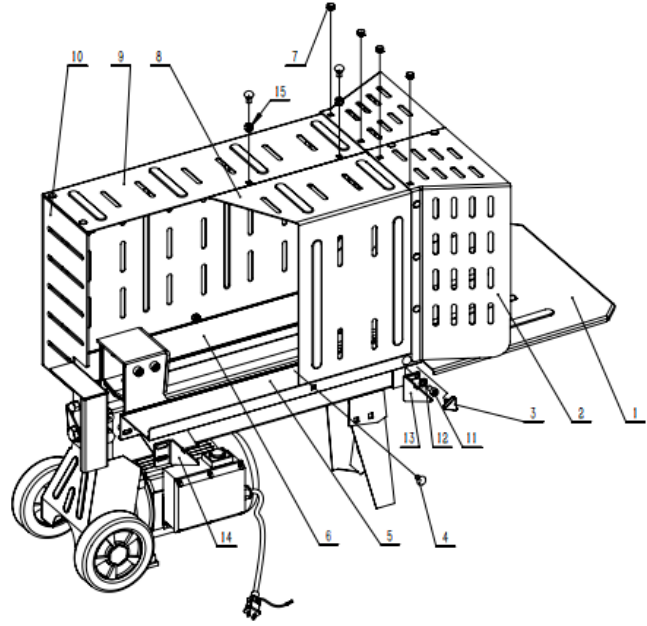


**PLUMBING DIAGRAM**



## Assembly:

- 1、 extension table 1pcs
- 2、 front cover 1pcs
- 3、 M6 rotary knob 1pcs
- 4、 M8 half-round head square neck bolt 7pcs
- 5、 left support plate 1pcs
- 6、 right support plate 1pcs
- 7、 Nylon square neck connector 17pcs
- 8、 left cover 1pcs
- 9、 right cover 1pcs
- 10、 back cover 1pcs
- 11、 M8×16 semicircle head square neck bolts 5pcs
- 12、 flat washer 8 5pcs
- 13、 left reinforcing rib 2pcs
- 14、 right reinforcing rib 2pcs
- 15、 locknut M8 7pcs



1.The hexagon socket wrench is used to connect 1pcs M8x16 semicircle head square neck bolts (no.11) through the hole centers of 1pcs flat washers 8( no. 12) and 1pcs left reinforcing rib (no.13) and 1pcs left support plate respectively, and tighten the connection with the corresponding screw hole seat on the working table. Then make 1pcs M8x16 semicircle head square neck bolts (no.11) successively through the hole centers of 1pcs flat washers 8( no. 12) and 1pcs right reinforcing rib (no.13) and 1pcs left support plate (no.5)respectively, and tighten the connection with the corresponding screw hole seat on another side of working table.. See figure 1a,1b.

2.Use the same wrench to connect 1pcs M8x16 semicircle head square neck bolts (no.11) through the hole centers of 1pcs flat washers 8( no. 12) and 1pcs left reinforcing rib (no.13) and 1pcs right support plate respectively, and tighten the connection with the corresponding screw hole seat on the working table. Then make 1pcs M8x16 semicircle head square neck bolts (no.11) successively through the hole centers of 1pcs flat washers 8( no. 12) and 1pcs right reinforcing rib (no.13) and 1pcs right support plate(no.6) respectively, and tighten the connection with the corresponding screw hole seat on another side of working table.. See figure 1a,1b.

3.Pass 2pcs M8 semicircle head square neck bolts(no.11) through the installation holes of the left cover (no.8) and left support plate (no.5), and tighten 2pcs M8 lock nuts and 2pcs M8 semicircle head square neck bolts(no.11) with a wrench

4. Pass 3pcs M8 semicircle head square neck bolts(no.11) through the installation holes of the right cover (no.9) and right support plate (no.6), and tighten 3pcs M8 lock nuts and 3pcs M8 semicircle head square neck bolts(no.11) with a wrench.

5. Pass 2pcs M8 semicircle head square neck bolts(no.11) through the installation holes of the left cover (no.8) and right cover (no.9), and tighten 2pcs M8 lock nuts and 2pcs M8 semicircle head square neck bolts(no.11) with a wrench

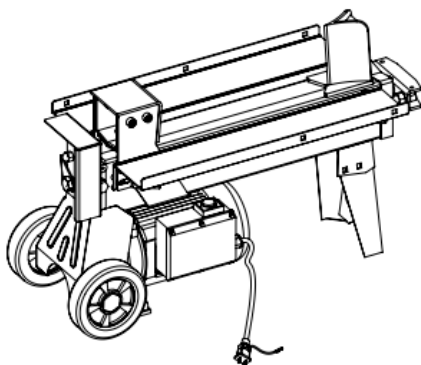


figure 1

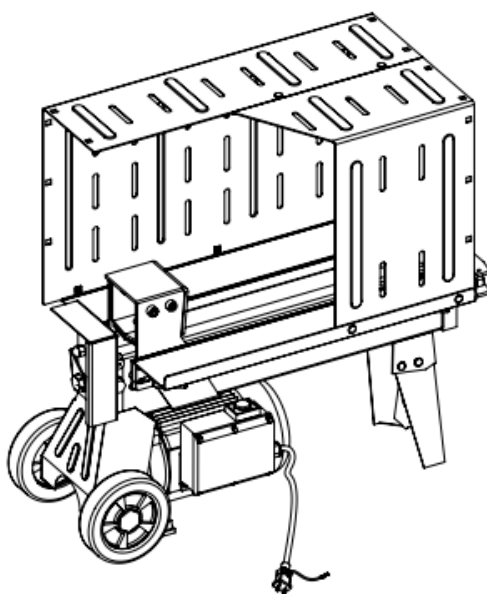


figure 2

6. Making the hook in the front of the extension table contact with the cylindrical boss of the working table, and put the other side on the head of the cylinder. Screw two M6 knobs into the corresponding holes of left and right support plates (loosen two M6 knobs when dismantling the extension table). See figure 3

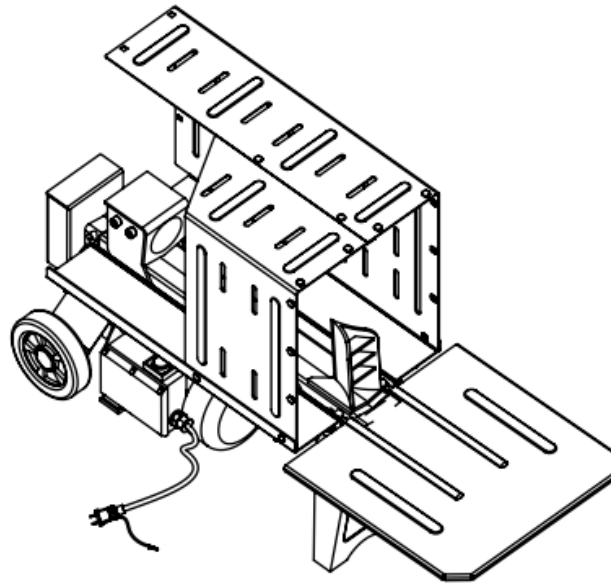


Figure 3

7. Use wooden hammer to make 17 pcs nylon square neck connector (no. 7) knocked into corresponding installation holes of front cover (no. 2) and back cover (No. 10) respectively, then knock nylon square neck connectors (no. 7) gently into the installation holes of left cover (no. 8) and right cover (No. 9), as shown in figure 4.

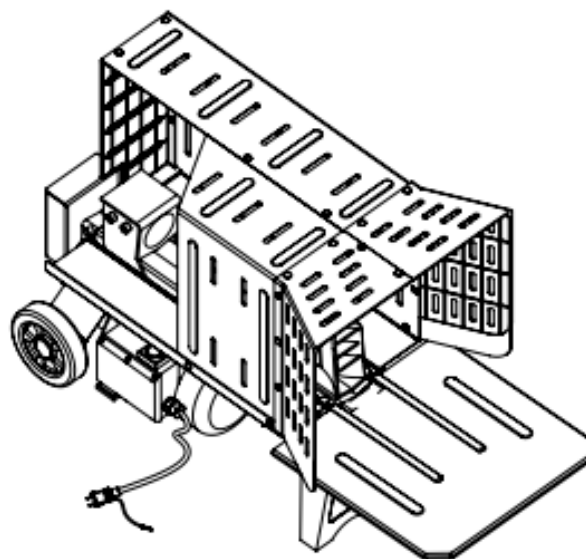
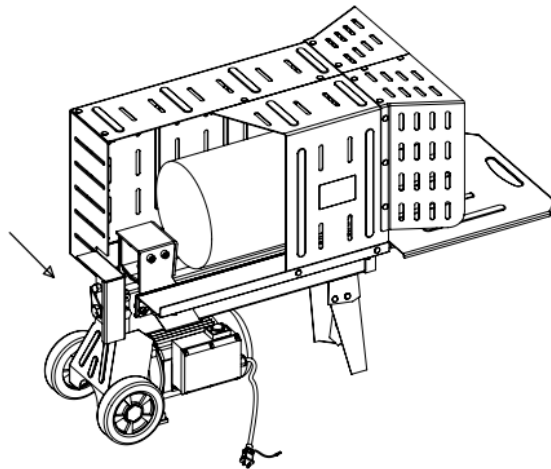


figure 4

Finishing above steps, a complete machine is assembled. If you choose a machine without extra legs or stand, please place the machine safely on a workbench with 850mm above the ground before using.

## 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.

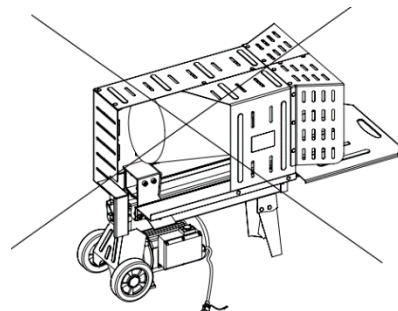
Trigger type lock-out device is adopted to avoid accidental Hydraulic Control Lever pushdown. To operate the Hydraulic Control Lever, draw the Trigger backward with the index finger before push the Hydraulic Control Lever forward.



**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.

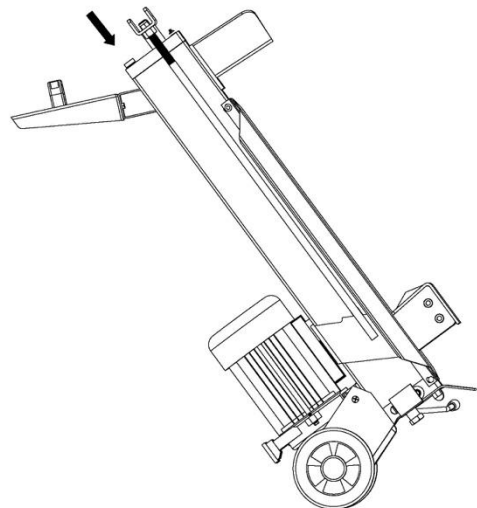
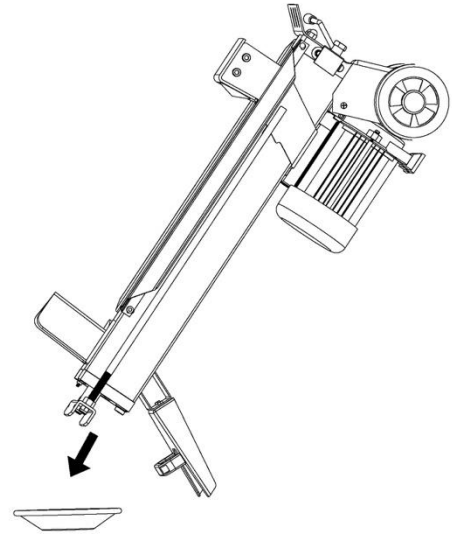
Do not try to knock the jammed log off. Knocking about will damage the machine or may launch the log and cause accident.

## 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 a 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.



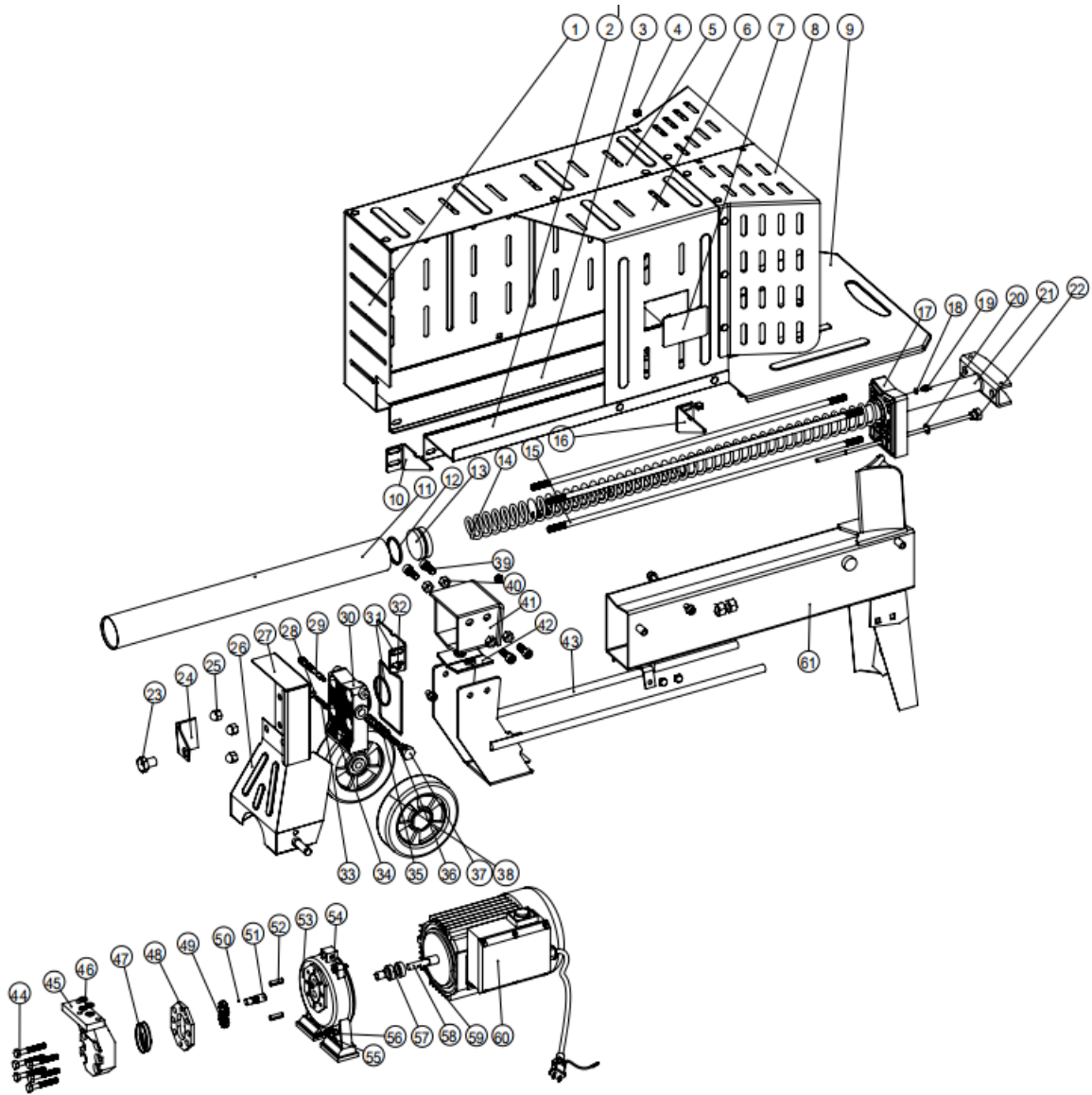
## TROUBLE SHOOTING

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

### DISPOSAL

Electrical products should not be discarded with household products. According to the European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation into national law, electrical products used must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

### EXPLODED VIEW



**Declaration  of conformity**

**FEIDER**

**ZI, 32, rue Aristide Bergès – 31270 Cugnaux - France  
Tel: +33 (0)5.34.502.502 Fax : +33 (0)5.34.502.503**

**Declare that this machine:**

**ELECTRIC LOGSPLITTER**

**Model: FFBE4T-UK**

**Is in conformity with the Directive 2006/42/EC and the regulations transposing it;**

**Also in conformity with the following Directives:**

**RoHS Directive 2011/65/UE**

**EMC Directive 2014/30/UE**

**Also in conformity with the following standards:**

**EN609-1:2017**

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

**EN55014-1:2017**

**EN55014-2:2015**

**EN61000-3-2:2014**

**EN61000-3-11:2000**

**Responsible of technical file: Olivier Patriarca**

**Cugnaux, le 17/06/2019**



**Philippe MARIE / PDG**