



# SCHEPPACH HL460 Log splitter Woodworking machine Instructions

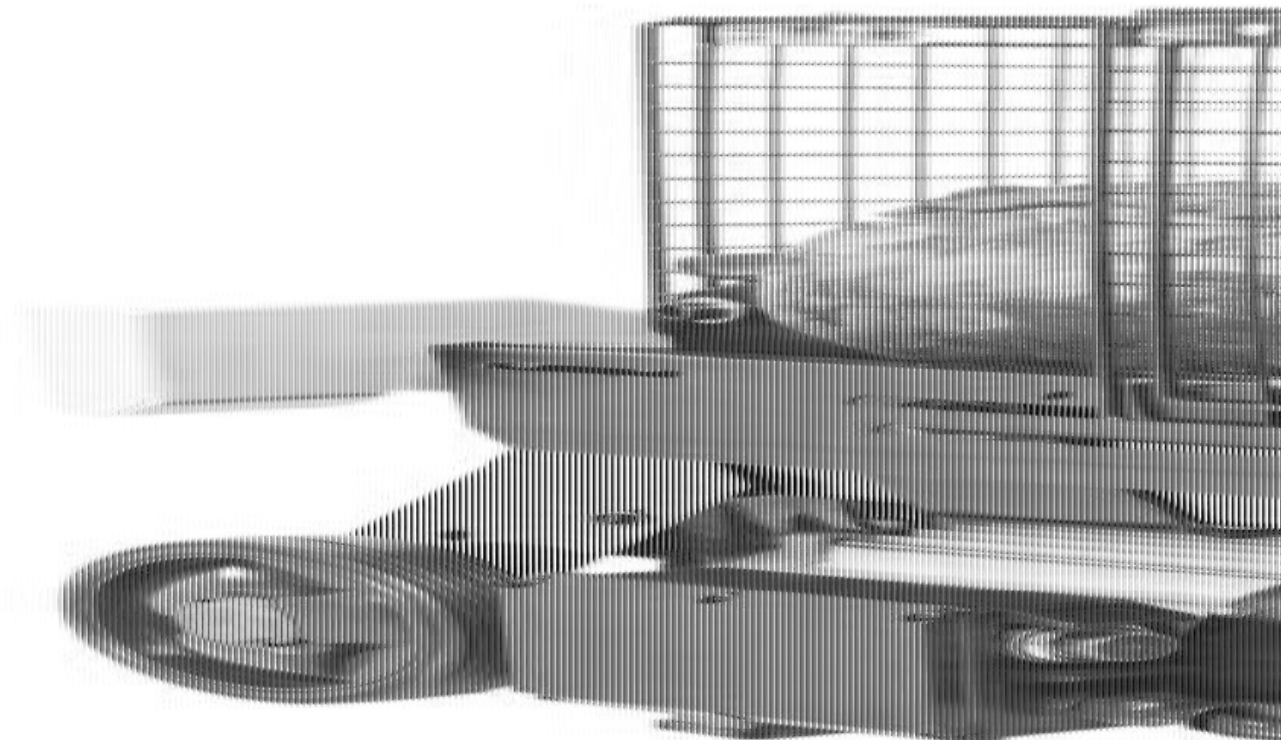
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The Scheppach logo, featuring the brand name in a stylized, blue, lowercase font.


**SCHEPPACH HL460 Log splitter Woodworking machine**



## Explanation of the symbols on the equipment

The use of symbols in this manual is intended to draw your attention to possible risks. The safety symbols and the explanations that accompany them must be perfectly understood. The warnings in themselves do not remove the risks and cannot replace correct actions for preventing accidents.

	Please read the manual before start-up
	Use hearing protection
	Wear safety footwear
	Use safety goggles
	Wear work gloves

	Do not remove or modify protection and safety devices.
	Do not spill hydraulic oil on the floor Dispose of waste oil correctly (waste oil collection point on site). Do not dump waste oil in the ground or mix it with waste.
	Caution! Switch off the engine before repair, maintenance and cleaning. Unplug the mains plug.
	High-voltage, danger to life!
	Do not reach into the rift area! Risk of injury! Risk of cutting and crushing!
	Do not reach into the machine without any protection!
	Caution! Moving parts!
	Only the operator is allowed in the work area of the machine. Keep other people and animals (minimum distance 5 m) at a distance.
m <b>Attention!</b>	In this operating manual, we have used this sign to mark all sections that concern your safety.

## Introduction

### Manufacturer:

scheppach  
Fabrikation von Holzbearbeitungsmaschine GmbH Günzburger Straße 69  
D-89335 Ichenhausen

### Dear customer,

We hope your new tool brings you much enjoyment and success.

### Note:

According to the applicable product liability laws, the manufacturer of the device does not assume liability for damages to the product or damages caused by the product that occurs due to:

- Improper handling,
- Non-compliance of the operating instructions,
- Repairs by third parties, not by authorized service technicians,
- Installation and replacement of non-original spare parts,
- Application other than specified,
- A breakdown of the electrical system that occurs due to the non-compliance of the electric regulations and VDE regulations 0100, DIN 57113 /VDE0113.

**We recommend:**

Read through the complete text in the operating instructions before installing and commissioning the device.

The operating instructions are intended to help the user to become familiar with the machine and take advantage of its application possibilities in accordance with the recommendations.

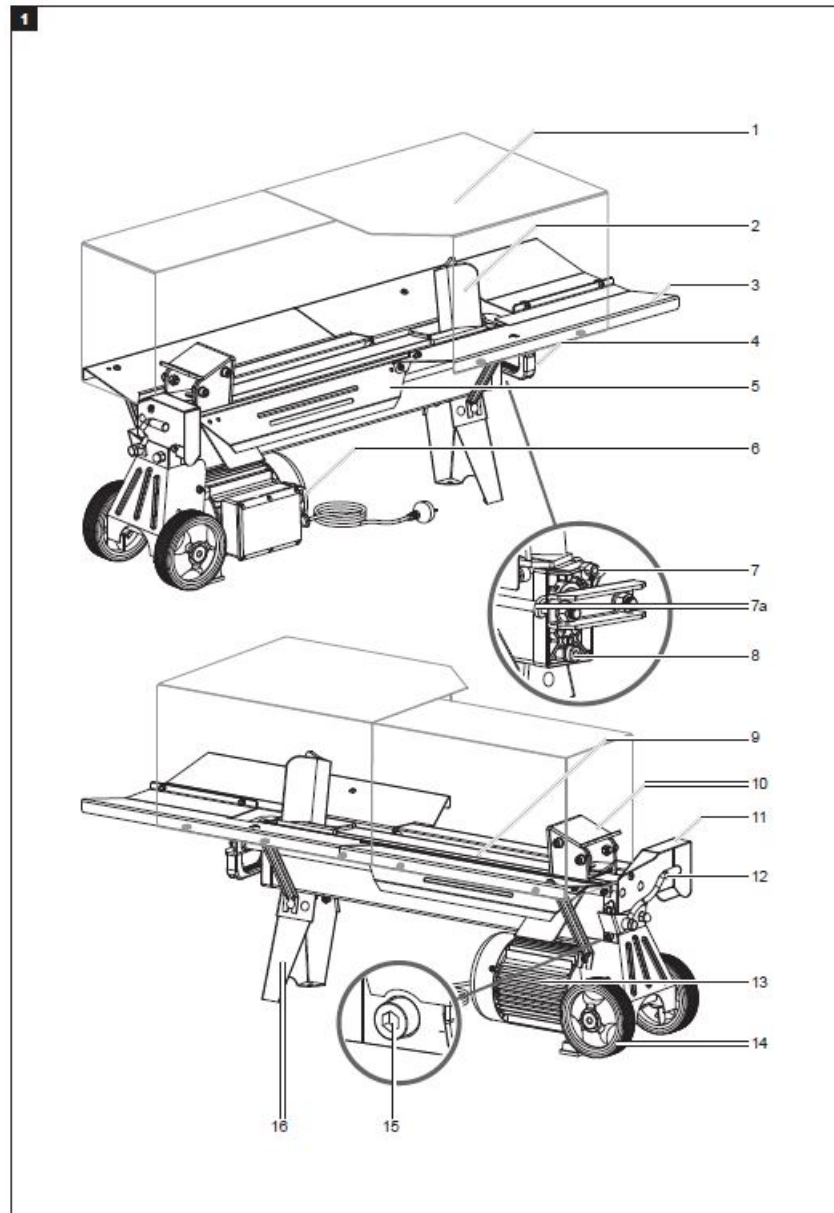
The operating instructions contain important information on how to operate the machine safely, professionally and economically, how to avoid danger, costly repairs, reduce downtimes and how to increase reliability and service life of the machine.

In addition to the safety regulations in the operating instructions, you have to meet the applicable regulations that apply for the operation of the machine in your country.

Keep the operating instructions package with the machine at all times and store it in a plastic cover to protect it from dirt and moisture. Read the instruction manual each time before operating the machine and carefully follow its information. The machine can only be operated by persons who were instructed concerning the operation of the machine and who are informed about the associated dangers. The minimum age requirement must be complied with.

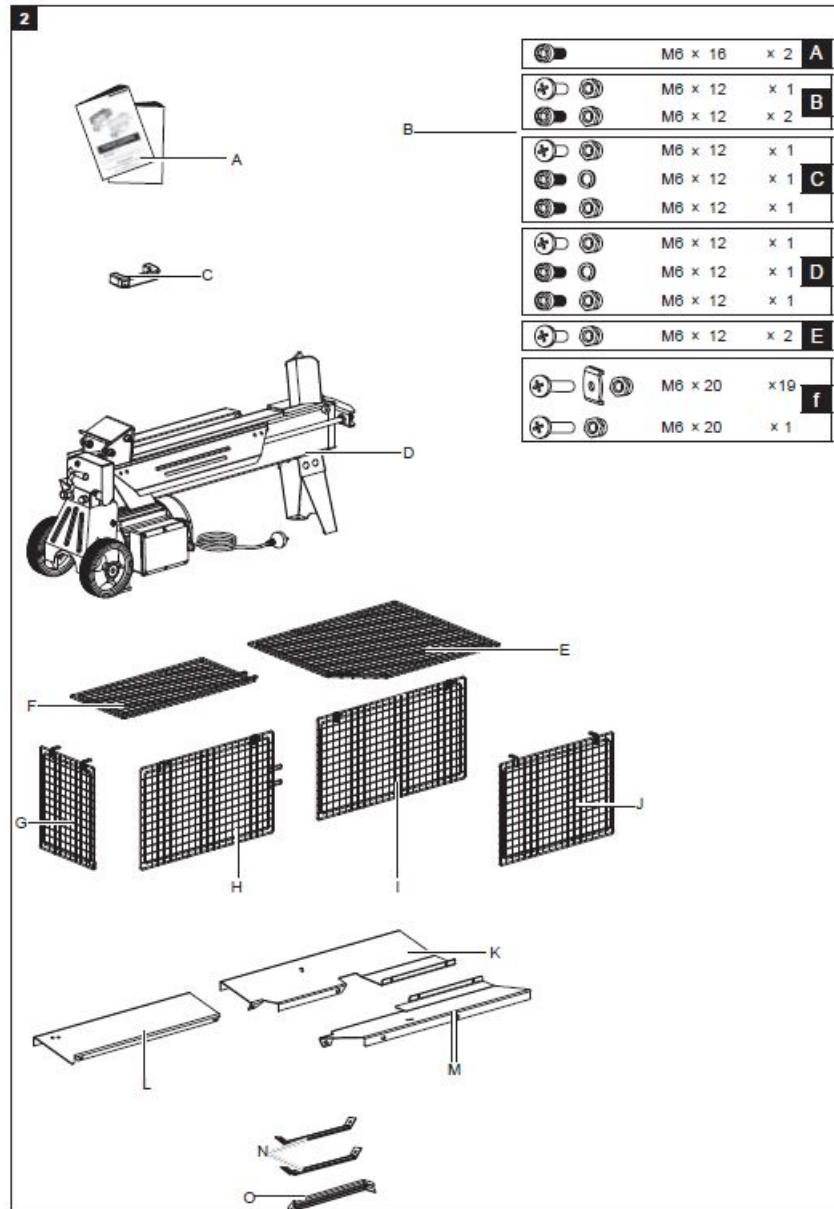
In addition to the safety instructions in this operating manual and the separate regulations of your country, the generally recognised technical rules for operating woodworking machines must also be observed. We accept no liability for accidents or damage that occur due to a failure to observe this manual and the safety instructions.

## Device description



1. Guard
2. Riving knife
3. Tray table for split logs
4. Handle
5. Trunk guide plate
6. Triggering button
7. Ventilation screw
8. Oil drain screw with dipstick
9. Support surface
10. Pressure plate
11. Control lever protection
12. Control lever
13. Motor
14. Transport wheels
15. Pressure limiting screw
16. Foot

## Scope of delivery



- **A.** Operating manual
- **B.** Enclosed accessories bag (a, b, c, d, e, f)
- **C.** Handle
- **D.** Log splitter
- **E.** Top guard 1
- **F.** Top guard 2
- **G.** Left guard
- **H.** Rear guard 1
- **I.** Rear guard 2
- **J.** Front guard
- **K.** Tray table 1
- **L.** Protective guard
- **M.** Tray table 2
- **N.** Struts (2x)
- **O.** Strut

## Intended use

The equipment is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user/operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

To use the equipment properly you must also observe the safety information, the assembly instructions and the operating instructions to be found in this manual.

All persons who use and service the equipment have to be acquainted with this manual and must be informed about the equipment's potential hazards. It is also imperative to observe the accident prevention regulations in force in your area. The same applies for the general rules of health and safety at work.

The manufacturer will not be liable for any changes made to the equipment nor for any damage resulting from such changes.

- The hydraulic log splitter is only suitable for horizontal operation. Wood may only be split while horizontal and in the direction of the grain. Dimensions of wood to be split: maximal 37 cm.
- Never split wood against the grain or while in an upright position.
- The manufacturer's safety, operation and maintenance instructions as well as the technical data given in the calibrations and dimensions must be adhered to.
- Relevant accident prevention regulations and other generally recognized safety and technical rules must also be adhered to.
- The machine may only be used, maintained or repaired by trained persons who are familiar with the machine and have been informed about the dangers. Unauthorized modifications of the machine exclude a liability of the manufacturer for damages resulting from the modifications.
- Any other use is considered to be not intended. The manufacturer excludes any liability for resulting damages, the risk is exclusively borne by the user.
- Keep work area clean and free of obstacles.
- Operate the unit only on a flat and firm surface.
- Check the proper function of the splitter before each start-up.
- Operate only in areas with a maximum altitude of 1000 m above sea level.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the equipment is used in commercial, trade or industrial businesses or for equivalent purposes.

## Safety notes

**WARNING:** When you use electric machines, always observe the following safety instructions in order to reduce the risk of fire, electric shock, and injuries.

Please read all the instructions before you work with this machine.

- Observe all safety notes and warnings attached to the machine.
- See to it that safety instructions and warnings attached to the machine are always complete and perfectly legible.
- Protection and safety devices on the machine may not be removed or made useless.
- Check electrical connection leads. Do not use any faulty connection leads.
- Before putting into operation check the correct function of the two-hand control.
- Operating personnel must be at least 18 years of age. Trainees must be at least 16 years of age, but may only operate the machine under adult supervision.

- Children may not work with this device
- Wear work and safety gloves, safety goggles, close-fitting work clothes, and hearing protection (PPE) while working.
- Caution when working: There is a danger to fingers and hands from the splitting tool.
- Before starting any conversion, setting, cleaning, maintenance or repair work, always switch off the machine and disconnect the plug from the power supply.
- Connections, repairs, or servicing work on the electrical equipment may only be carried out by an electrician.
- All protection and safety devices must be replaced after completing repair and maintenance procedures.
- When leaving the work place, switch off the machine and disconnect the plug from the power supply.
- Removing or working without guards is prohibited.
- When splitting, the properties of the wood (e.g. growths, trunk slices of irregular shape, etc.) can result in hazards such as ejecting parts, splitter blocking, and crushing.

### **Additional safety instructions**

- The log splitter may only be operated by one person.
- Never split logs containing nails, wire, or other foreign objects.
- Already split wood and wood chips can be dangerous. You can stumble, slip or fall down. Keep the working area tidy.
- While the machine is switched on, never put your hands on moving parts of the machine.
- Only split logs with a maximum length of 37 cm.

**WARNING!** This electric tool generates an electromagnetic field during operation. This field can im-pair active or passive medical implants under certain conditions. In order to prevent the risk of serious or deadly injuries, we recommend that persons with medical implants consult with their physician and the manufacturer of the medical implant prior to operating the electric tool.

### **Remaining hazards**

The machine has been built using modern technology in accordance with recognized safety rules. Some remaining hazards, however, may still exist.

- The splitting tool can cause injuries to fingers and hands if the wood is incorrectly guided or supported.
- Thrown pieces can lead to injury if the work piece is not correctly placed or held.
- Injury through electric current if incorrect electric connection leads are used.
- Even when all safety measures are taken, some remaining hazards which are not yet evident may still be present.
- Remaining hazards can be minimized by following the safety instructions as well as the instructions in the chapter Authorized use and in the entire operating manual.
- Health hazard due to electrical power, with the use of improper electrical connection cables.
- Release the handle button and switch off the machine prior to any operations.
- Avoid accidental starts of the machine: Do not press the start button while inserting the plug into the socket.
- Use the tools recommended in this manual to obtain the best results from your machine.
- Always keep hands away from the work area when the machine is running.

### **Technical data**



- Dimensions L x W x H :995 x 425 x 610 mm
- Wood ø max: 25 cm
- Wood length max: 37 cm
- Weight: 45 kg
- Motor: 230/50 V/Hz
- Input P1: 1500 W
- Output P2: 1100 W
- Rating: S1
- Splitting Power: max. 4 t
- Cylinder rise: 290 mm
- Cylinder speed (fast fwd.): 3,86 cm/sec
- Cylinder speed (return): 6,44 cm/sec
- Hydraulic fluid capacity: 2,4 l
- Operating pressure: 165 bar
- Motor speed: 2850 1/min

Subject to technical changes!

#### **Noise**

**WARNING:** Noise can have serious effects on your health. If the machine noise exceeds 85 dB (A), please wear suitable hearing protection.

### **Unpacking**

- Open the packaging and remove the device carefully.
- Remove the packaging material as well as the packaging and transport bracing (if available).
- Check that the delivery is complete.
- Check the device and accessory parts for transport damage.
- In case of complaints the dealer must be informed immediately. Subsequent complaints will not be accepted.
- If possible, store the packaging until the warranty period has expired.
- Read the operating manual to make yourself familiar with the device prior to using it.
- Only use original parts for accessories as well as for wearing and spare parts. Spare parts are available from your specialized dealer.
- Specify our part numbers as well as the type and year of construction of the device in your orders.

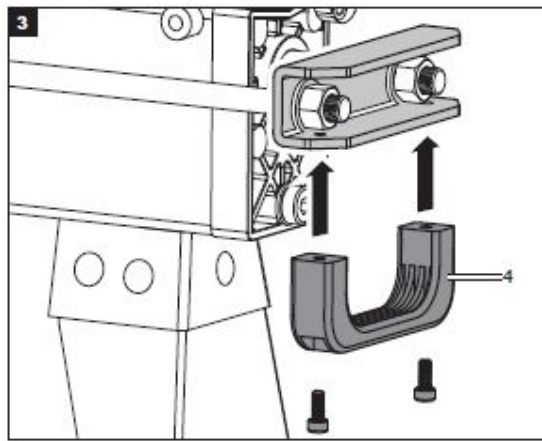
#### **ATTENTION**

The device and packaging materials are not toys! Children must not be allowed to play with plastic bags, film and small parts! There is a risk of swallowing and suffocation!

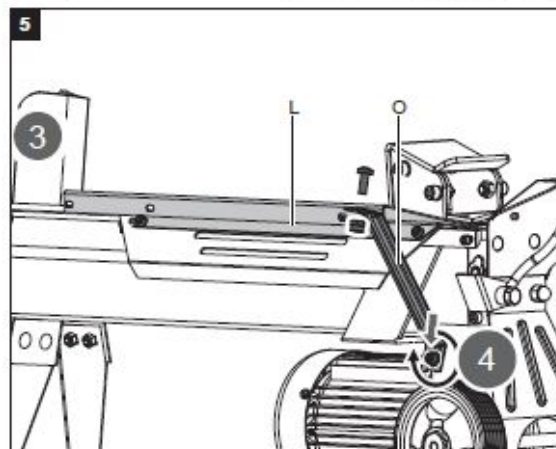
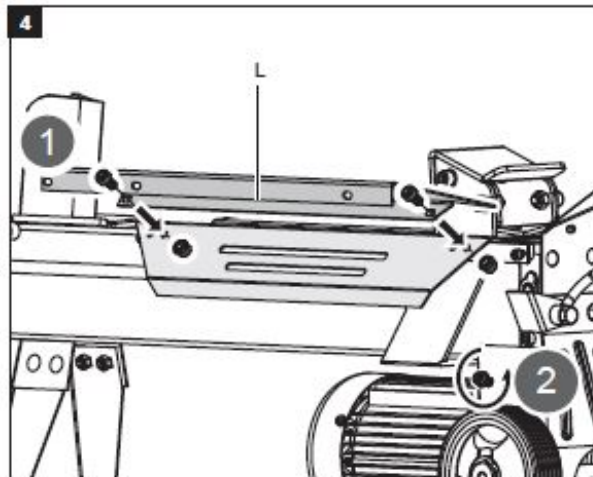
### **Attachment / Before starting the equipment**

At least two people are required to install the device.

Fasten the handle to the U-bar with two cylindrical screws. **Installing the handle (4) (enclosed accessories bag a) (fig. 3)**

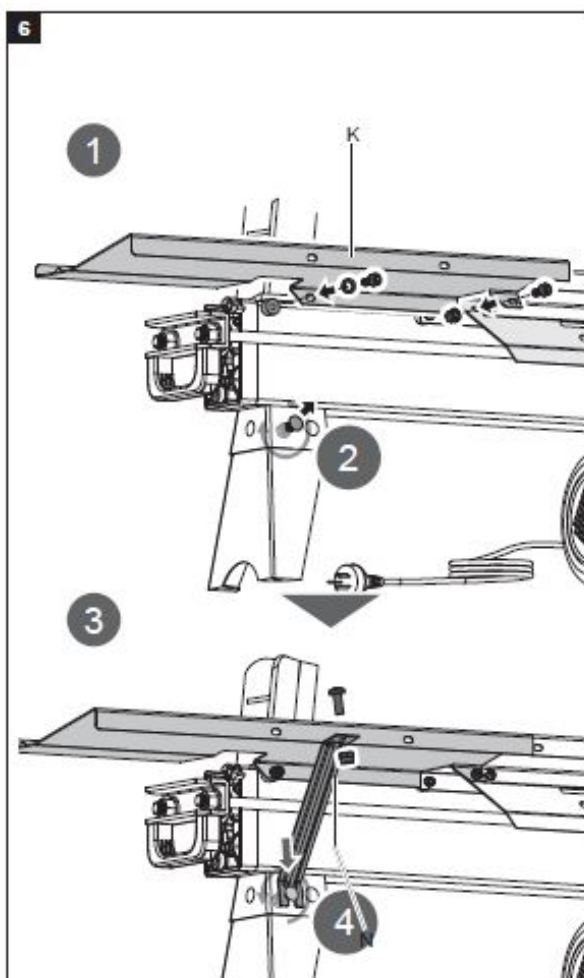


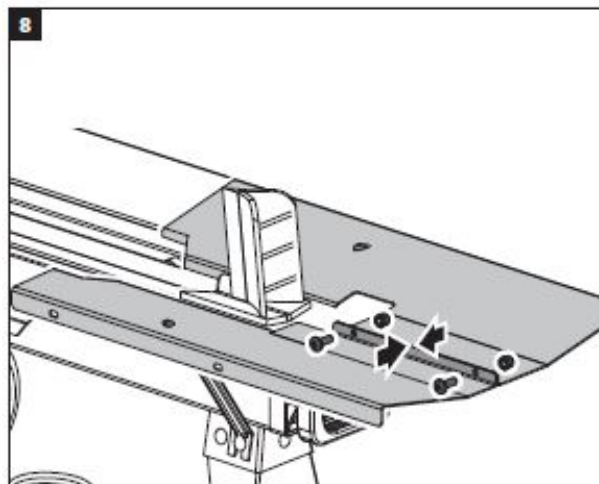
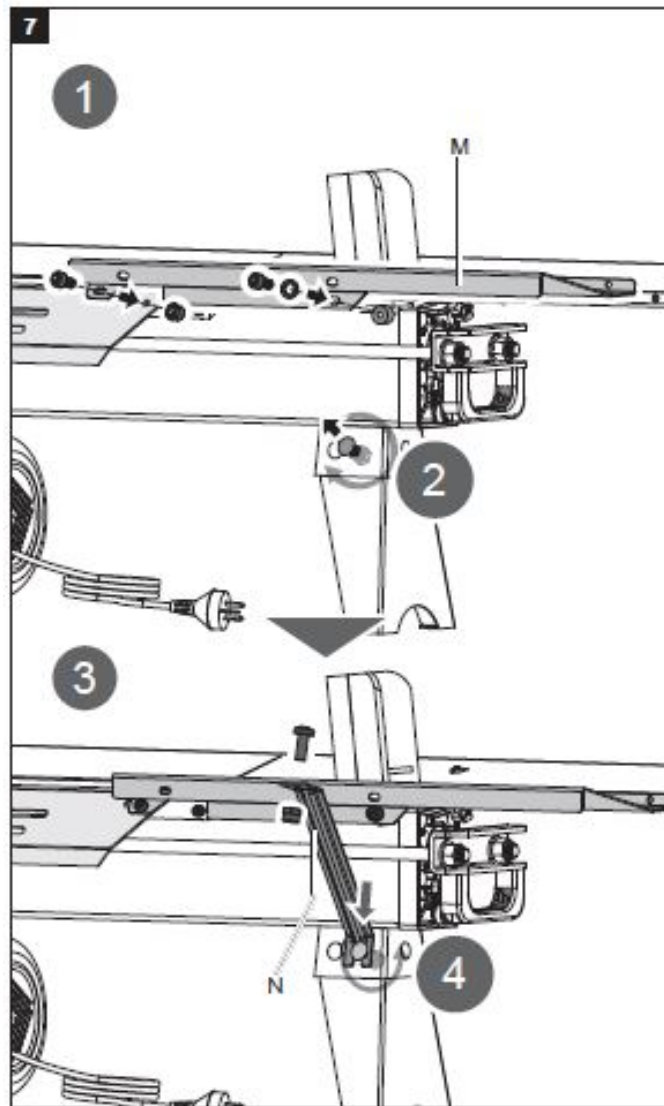
**Installing the protective guard (L) (enclosed accessories bag b) (fig. 4 + 5)**



1. Fit the protective guard (L) to the trunk guide plat (5) and use the enclosed cylindrical screws and nuts to affix it.
2. Undo the cylindrical screw with washer that is located on the wheel bracket.
3. Fasten the other end of the strut to the protective guard using the Phillips head screw and nut. (3)
4. Now guide the open end of the strut (O) between the washer and the wheel bracket, tighten the cylindrical screw (4) again firmly.

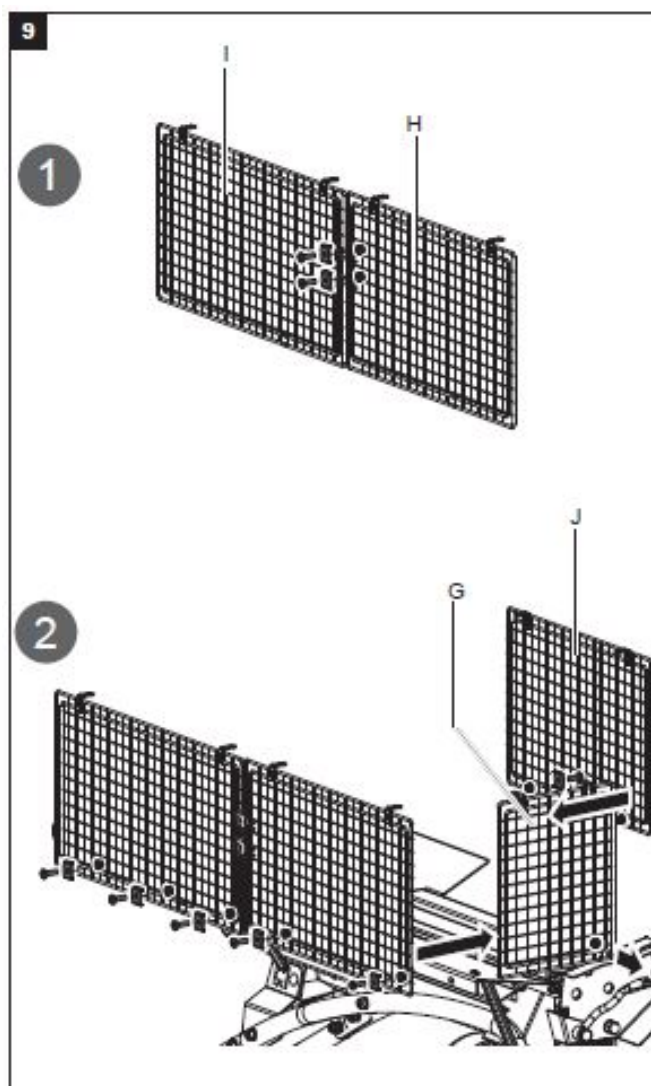
**Installing the tray table (K + M) (enclosed accessories bag c + d + e) (fig. 6 + 7 + 8)**

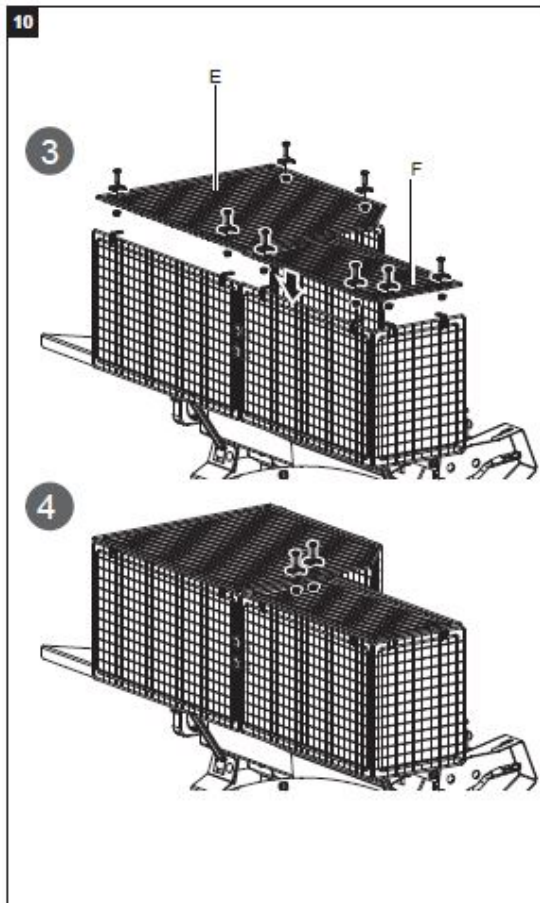




1. Attach the tray table (K) to the same side as the protective guard (L). Use two cylindrical screws and spring washers to affix the table to the log splitter. (1)
2. Ensure that the table and the protective guard are level in relation to each other.
3. Undo the screw on the left of the foot.
4. Fasten the other end of the strut to the protective guard using the Phillips head screw and nut, align everything and tighten the screws firmly.
5. Now guide the open end of the strut (N) between the screw and the foot bracket, tighten the screw slightly.
6. Repeat the process on the other side.
7. Align both tables in relation to each other and use the Phillips head screws and nuts (e) to affix them.

Installing the guard (E – J) (enclosed accessories bag f) (fig. 9 + 10)





1. Connect the guards (H) and (I) together, use two Phillips head screws, clamping brackets and nuts to affix it.
2. Fasten the guards (H, I, J) to the holes provided for this. These are on the side of the table and the protective guard. Fasten the guard with seven Phillips head screws, clamping brackets and nuts. Fit the protective guard (G) to the control lever protection (11) and use a Phillips head screw and a nut to affix it.
3. Now fasten the guards (E + F) on the top. Fasten them with eight Phillips head screws, clamping brackets and nuts.
4. Fasten the guards (E + F) together using two Phillips head screws, clamping brackets and nuts.

### IMPORTANT!

You must fully assemble the appliance before using it for the first time!

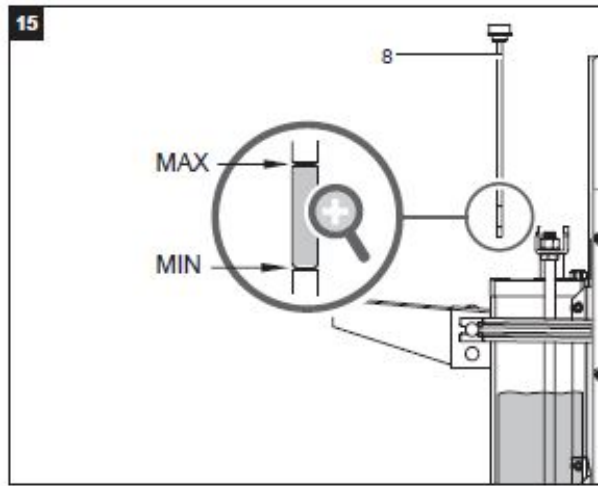
### Initial operation

Before start-up, place the splitter on a stable, level and flat workbench so that the splitter tray table sits at a height of 72 – 85 cm. If the machine should slip during splitting work, fasten it to the table with two screws (M8 x X = thickness of the table). To do so, use the two holes on the foot (16).

Make sure the machine is completely and expertly assembled. Check before every use:

- the connection cables for any defective spots (cracks, cuts etc.).
- the machine for any possible damage.
- the firm seat of all bolts.
- the hydraulic system for leakage.
- the oil level and
- the safety devices

## Checking the oil level (Fig. 15)



The hydraulic unit is a closed system with oil tank, oil pump and control valve. Check the oil level regularly before every use. Too low an oil level can damage the oil pump. If the oil level is at the lower notch, then the oil level is at a minimum. Should this be the case, oil must be immediately added. The upper notch indicates the maximum oil level. The machine must be on level ground. Screw in the oil dipstick fully, to measure the oil level.

### Ventilation screw

Before operating your machine, the bleed screw (7) should be loosened by some rotations until air can go in and out of the oil tank smoothly. Failed to loosen the bleed screw will keep the sealed air in hydraulic system being compressed after being decompressed. Such continuous compression/decompression will blow out the seals of the hydraulic system and cause permanent damage to your machine. Before moving your machine, make sure the bleed screw is tight-ened to avoid oil leaking from this point.

### Splitting logs

Only split logs that have been sawn off straight. To do this, proceed as follows:

1. Place the log plain onto the work table (9).
2. Your machine is equipped with Two-hands Control System that requires to be operated by both hands of the user – left hand controls the control lever (12) while right hand controls the push button switch (6).
3. Simultaneously push button switch (6) to start the splitting action.

The log splitter will freeze upon absence of either hand.

Never force your machine 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 should be discarded to protect the log splitter.

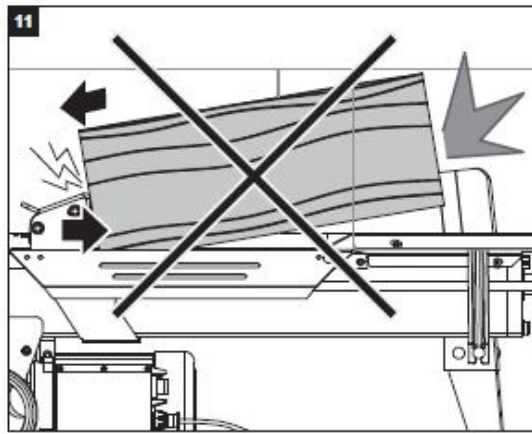
### Hoist limiting

It is reasonable to limit the hoist of the pressure plate (10) for short splitting material. There to press the control lever (12) and the release button (6) and let the pressure plate (10) move just in front of the splitting material. Release the release button now and mount the hoist limiting ring (7a) to the housing and tighten it. Afterwards you can release the hydraulics lever.

The pressure plate will now be resting in the selected position.

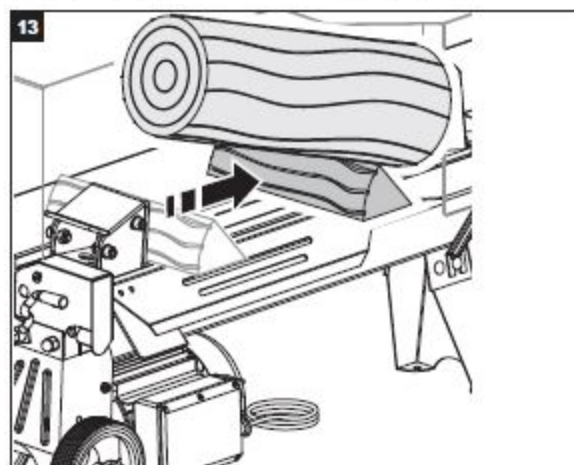
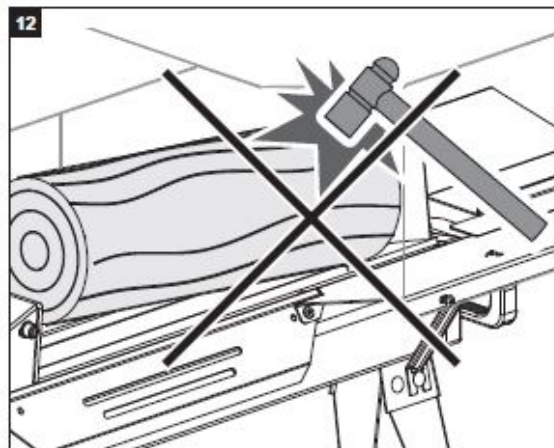
## Wrongly placed log (Fig. 11)





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 logs on the upper part. This will break the blade or 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.

### Jammed log (Fig. 12 + 13)



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

1. Release both controls.
2. After the log pusher moves back and completely stops at its starting position, insert a wedge wood under the jammed log (see figure 15).
3. Start the log splitter to push the wedge wood under the jammed one.
4. Repeat above procedure with sharper slope wedge woods until the log is completely freed.



## Electrical connection

The electrical motor installed is connected and ready for operation. The connection complies with the applicable VDE and DIN provisions.

The customer's mains connection as well as the extension cable used must also comply with these regulations.

### Damaged electrical connection cable

The insulation on electrical connection cables is often damaged.

This may have the following causes:

- Passage points, where connection cables are passed through windows or doors.
- Kinks where the connection cable has been improperly fastened or routed.
- Places where the connection cables have been cut due to being driven over.
- Insulation damage due to being ripped out of the wall outlet.
- Cracks due to the insulation ageing.

Such damaged electrical connection cables must not be used and are life-threatening due to the insulation damage.

Check the electrical connection cables for damage regularly. Make sure that the connection cable does not hang on the power network during the inspection. Electrical connection cables must comply with the applicable VDE and DIN provisions. Only use connection cables with the marking „H07RN“.

The printing of the type designation on the connection cable is mandatory.

For single-phase AC motors, we recommend a fuse rating of 16A (C) or 16A (K) for machines with a high starting current (starting from 3000 watts)!

### AC motor 230 V/ 50 Hz

#### Mains voltage 230 Volt / 50 Hz.

- The mains connection and the extension cable have to be three-core cables = P + N + SL. – (1/N/PE).
- Extension cables must have a minimum cross-section of 1.5 mm<sup>2</sup>.
- Mains fuse protection is 16 A maximum.

## Cleaning

### ATTENTION!

Pull out the power plug before carrying out any cleaning work on the equipment.

We recommend that you clean the equipment immediately after you use it.

Clean the equipment regularly with a damp cloth and some soft soap. Do not use cleaning agents or solvents; these may be aggressive to the plastic parts in the equipment. Ensure that no water can get into the interior of the equipment.

## Transport

The log splitter is equipped with two wheels for easy transport.

The machine can be transported on the wheels at an angle. Use the transport handle, lift and pull or push. (Fig. 14)

## Storage

Store the device and its accessories in a dark, dry and frost-proof place that is inaccessible to children.

The optimum storage temperature is between 5 and 30°C.

Cover the electrical tool in order to protect it from dust and moisture.  
Store the operating manual with the electrical tool.

## Maintenance

### ATTENTION!

Pull out the power plug before carrying out any maintenance work on the equipment.

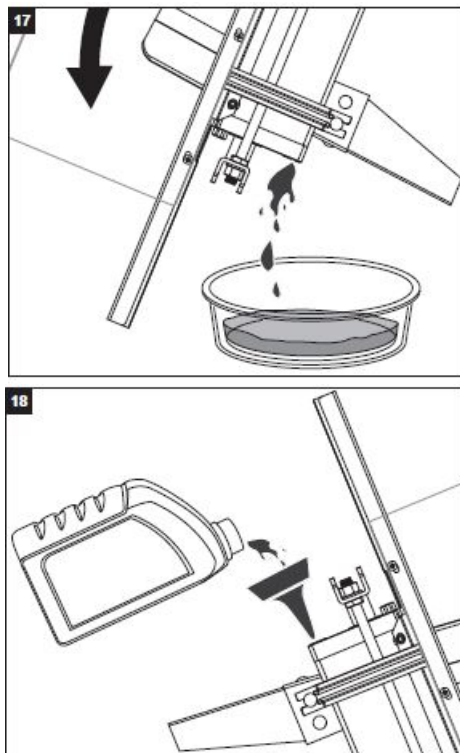
### We recommend:

- The splitting wedge is a wearing part that needs to be sharpened or replaced after wear.
- The combined gripping and controlling device must remain smooth running. Lubricate with a few drops of oil when necessary.
- Keep splitting wedge drive clean of dirt, wood shavings, bark, etc.
- Lubricate slide rails with grease.

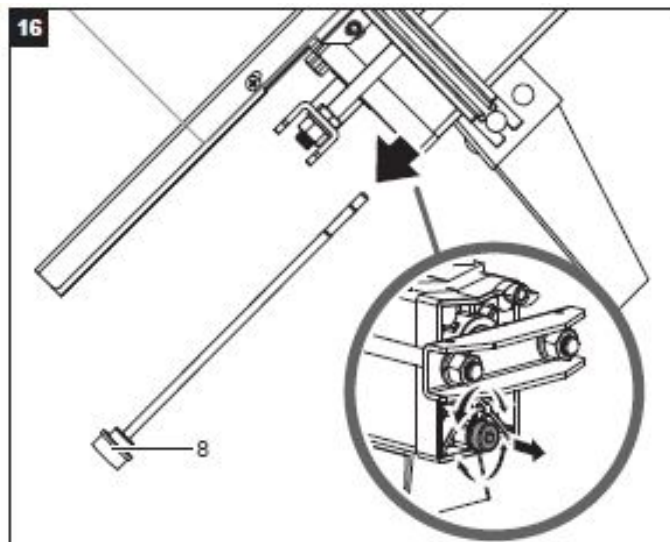
### When must the oil be changed?

Change the oil after 150 working hours.

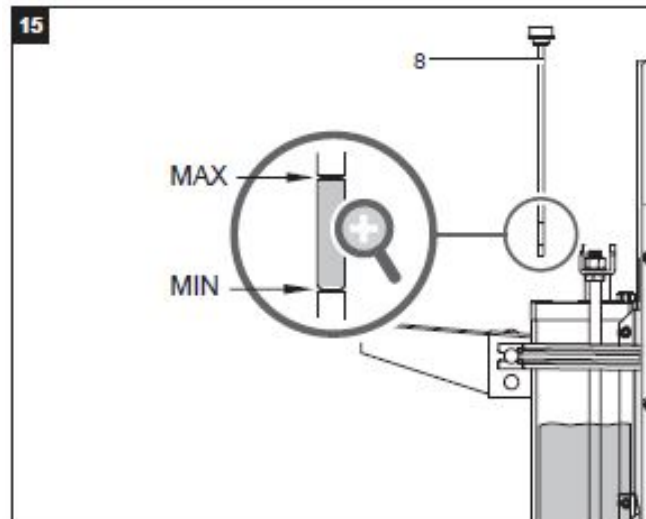
### Oil change (Fig. 15 – 18)



1. Move the log splitter into the start position and pull out the mains plug.
2. Undo the oil drain screw with dipstick (8) and put it to one side. (Fig. 16)



3. Turn the log splitter on the support leg side as shown in fig. 17 over a 4 litre capacity container to drain the hydraulic oil off. Recycle carefully! Dis-pose of the waste oil in an environmentally friend-ly manner!
4. Turn your machine on the motor side as shown in Fig. 18 to refill about 2,4 l fresh oil.
5. Clean the oil drain screw with dipstick (8) and screw it back in to the machine that is still in a vertical position. Unscrew it again; there should be an oil film between the two notches. (Fig. 15)



6. Now screw the oil drain screw with dipstick back in tightly. Afterwards start splitting without actually splitting log several times.
7. Check the oil level one last time and top up with a little oil if required.

Dispose of the used oil in a correct manner at a public collection facility. It is prohibited to drop old oil on the ground or to mix it with waste.

We recommend oil from the HLP 32 range.

### Connections and repairs

Connections and repairs of electrical equipment may only be carried out by an electrician.

Please provide the following information in the event of any enquiries:

- Type of current for the motor
- Machine data – type plate
- Machine data – type plate

### Service information

Please note that the following parts of this product are subject to normal or natural wear and that the following parts are therefore also required for use as consumables.

Wear parts\*: splitting wedge guides, hydraulic oil, splitting wedge

\* Not necessarily included in the scope of delivery!

## **Disposal and recycling**

The equipment is supplied in packaging to prevent it from being damaged in transit. The raw materials in this packaging can be reused or recycled. The equipment and its accessories are made of various types of material, such as metal and plastic.

Defective components must be disposed of as special waste. Ask your dealer or your local council.

Old devices must not be disposed of with household waste!

This symbol indicates that this product must not be disposed of together with domestic waste in compliance with the Directive (2012/19/EU) pertaining to waste electrical and electronic equipment (WEEE). This product must be dis-

posed of at a designated collection point. This can

occur, for example, by handing it in at an authorised

collecting point for the recycling of waste electrical and electronic equipment. Improper handling of waste equipment may have negative consequences for the environment and human health due to potential hazardous substances that are often contained in electrical and electronic equipment. By properly disposing of this product, you are also contributing to the effective use of natural resources.

You can obtain information on collection points for waste equipment from your municipal administration, public waste disposal authority, an authorised body for the disposal of waste electrical and electronic equipment or your waste disposal company.


## **Troubleshooting**

The table below contains a list of error symptoms and explains what you can do to solve the problem if your tool fails to

work properly. If the problem persists after working through the list, please contact your nearest service workshop.

Problem	Possible Cause	Remedy
Motor stops starting	Overload protection device disengaged to protect the log splitter from being damaged	Contact a qualified Electrician.
Fails to split logs	Log is improperly positioned	Refer to "operation" section to perfect log loading
	Size of log exceeds the capacity of the machine	Reduce log size before operating
	Wedge cutting edge is blunt	Sharpen cutting edge
	Oil leaks	Locate leak(s) and contact your dealer
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 refilling. Contact your dealer
Oil leaks around the 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 bleed screw up before moving the log splitter
	Oil drain screw loose	Tighten the oil drain screw firmly
	Hydraulic control valve assembly and/or seal(s) worn	Contact your dealer

## Documents / Resources

	<p><a href="#">SCHEPPACH HL460 Log splitter Woodworking machine</a> [pdf] Instructions HL460, splitter Woodworking machine, Log splitter</p>
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## References

- [scheppach | scheppach](#)