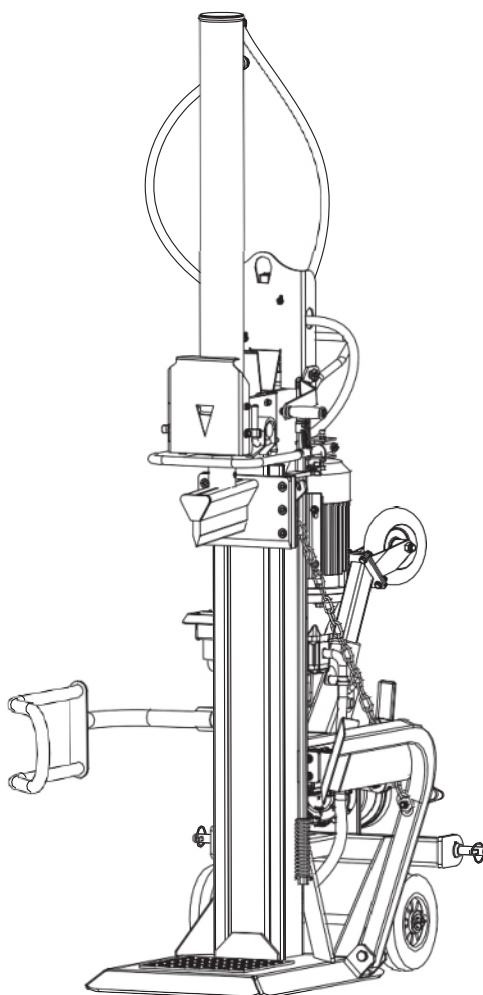




**BLUEBIRD
INDUSTRIES**



Hydraulic log splitter

Operator's Manual

MODEL NUMBER: ☐ LS PTO 30000

SERIAL NUMBER: _____

Both the model number and the serial number are located on the main label.

Both should be recorded in a safe place for future use.

FOR YOUR SAFETY

**READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE USING THE
MACHINE**

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INTRODUCTION

Your new log splitter will more than meet your expectations. It has been manufactured observing strict quality standards to meet performance criteria superior. You will find your new product easy and safe to use, and with proper maintenance, it will provide you with many years of reliable service.



Carefully read the entire manual of the operator before using the new log splitter. Pay special attention to the precautions and the warnings.

RECYCLING AND DISPOSAL



This mark indicates that this product must not be disposed of with other household waste. To avoid possible damage to the environment or human health due to uncontrolled waste disposal, recycle them responsibly to promote the sustainable reuse of material resources. To return the used device, please use the return and collection systems or check with local authorities or local stores for advice on safe recycling for the environment.

SYMBOLS

The nameplate of your machine may display symbols. These represent important product information or instructions for its use.



Read these instructions in full before using the machine.



Wear safety footwear!



Wear protective gloves!



Wear eye protection!
Wear hearing protection!



Keep your workspace tidy! Disorder can cause accidents.



Do not remove or tamper with any protective or safety device.



Dispose of used oil in an environmentally friendly way.



Do not use in the rain.



Danger! Keep away from moving parts!



Do not remove jammed logs with your hands.



Warning! Thrown objects.



Before starting any maintenance or cleaning, always disconnect the power supply.



Avoid injuries caused by the movement of the splitting blade.



Keep bystanders away from the work area.



Do not split wood while transporting the machine.



Do not split wood when the machine is resting.

SAFETY

Instructions and safety warnings

UNDERSTAND YOUR LOG SPLITTER

Read and understand the owner's manual and the labels affixed to the log splitter. Learn its application and its limitations, as well as the potential specific risks that characterize it. Thoroughly understand the controls and the correct use of the device.

DRUGS, ALCOHOL AND MEDICATIONS

Do not use the log splitter under the influence of drugs, alcohol, or any other medication that may affect your ability to use it properly.

AVOID DANGEROUS CONDITIONS

Always use the log splitter on dry, solid, and level ground. Never use the log splitter on slippery, wet, muddy, or icy surfaces. The chosen position must be free from any tall grass, bushes, or other obstructions. There should be plenty of space for handling, and to help the operator remain alert. Keep the work area clean and well lit. Messy areas invite injury. To avoid tripping, do not leave tools, logs, or other components lying around the work area. Do not use the log splitter in damp or wet areas and do not expose it to rain. Do not use it in areas where fumes from paints, solvents, or liquids flammable represent a potential hazard.

INSPECT THE LOG SPLITTER

Check the log splitter before turning it on. Keep guards in place and in proper working order. Get into the habit of checking that wrenches and adjustment keys are removed from the tool area before operating. Replace damaged, missing, or faulty parts before using it. Make sure that all nuts, bolts, screws, hydraulic fittings, hose clamps, etc. are well tightened. Always check the oil level in the hydraulic oil tank. Never use the log splitter when it needs repairs or is in poor mechanical condition. Before starting work, test the stop devices to keep them in safe condition.

WEAR APPROPRIATE CLOTHING

Do not wear loose clothing, gloves, ties, or jewelry (rings, wristwatches). They can become entangled in moving parts. Protective gloves are recommended electrically non-conductive, non-slip footwear, and hearing protection during work. Wear a protective cover to contain long hair, preventing it from getting caught in the machinery.

PROTECT YOUR EYES AND FACE

Any log splitter can throw foreign objects into your eyes. This can cause permanent eye damage. Always wear safety glasses. Everyday glasses only have lenses resistant to impacts. They are not safety glasses.

EXTENSIONS

cause inefficient operation of the log splitter, resulting in overheating. Make sure that the extension cord is no longer than 10 m and that its cross-section is not less than 2.5 mm² to allow sufficient current flow to the motor. Avoid using loose and inadequately insulated connections. The connections must be made with protected material suitable for outdoor use.

AVOID ELECTRIC SHOCKS

Check that the electrical circuit is adequately protected and matches the power, voltage, and frequency of the motor. Check that there is a ground connection. Make the log splitter's ground connection. Avoid body contact with grounded surfaces: pipes, radiators, stoves, and refrigerators. Never open the switch/plug box. If this is necessary, contact a qualified electrician. Make sure that your fingers do not touch the metal pins of the plug when connecting or disconnecting the log splitter.

PREVENT FIRES

Do not smoke or light open flames during operation or refueling of the log splitter. Never use the log splitter near a flame or spark. Oil is flammable and may explode.

KEEP BYSTANDERS AWAY

Allow only one person to load and operate the log splitter. Always keep bystanders, including visitors, children, and pets, away from the work area, especially when the log splitter is in operation. Only the operator should be near the machine and only within the safe operating area prescribed in this manual. Never use other people to help you free a jammed log. No one under the age of 16 should be allowed to use the log splitter. Any individual under the age of 18 must have the necessary training, the skills to perform the functions correctly and safely, and must always be under the supervision of an adult.

INSPECT THE LOG

Never attempt to split logs containing nails, wire, or debris. Always make sure that both ends of the log you are splitting are cut as square as possible. This will prevent the log from slipping out of position while under pressure. Branches must be cut flush with the log.

DO NOT OVERREACH

Always maintain proper support and balance. Never stand on the log splitter. In case of overturning of the tool or accidental contact with cutting tools, serious injuries may occur. Do not place anything on or near the log splitter where someone might stand on the tool to reach it.

AVOID INJURIES FROM UNEXPECTED ACCIDENTS

Do not straddle or reach over the splitting area when using the log splitter. Never stack logs to be split in a way that forces you to cross over the log splitter. Use only your hands to operate the control levers. Never use your foot, knee, a rope, or any other extension device. Always pay close attention to the movement of the wedge piston. Never attempt to load your log splitter while the piston is moving. Keep your hands away from all moving parts. Never attempt to split two logs stacked on top of each other. One of them could fly up and hit you.

PROTECT YOUR HANDS

Keep your hands away from cracks and splits that open in the log. They can close suddenly and crush or amputate your hands. Do not remove jammed logs with your hands.

DO NOT FORCE THE TOOL

It will do a better and safer job at its designed speed. Do not use the log splitter for a purpose for which it was not intended. Do not alter the equipment or use it in a way that bypasses its design capabilities. Never attempt to split logs larger than those indicated in the specifications table.

DISCONNECT THE POWER SUPPLY

Unplug when not in use, before making adjustments, changing parts, cleaning, or working on the log splitter. Consult the technical manual before maintenance.

PERFORM LOG SPLITTER MAINTENANCE

Before cleaning, repairing, inspecting, or adjusting, turn off the machine and make sure all moving parts have stopped. Always clean the appliance after each use. Keep the log splitter clean to achieve the best and safest performance. Follow the lubrication instructions. Inspect all hydraulic seals, hoses, and couplers for any leaks before use. The control levers and power switch must always be kept clean, dry, and free of oil and grease.

PROTECT THE ENVIRONMENT

Take used oil to an authorized collection point or follow the regulations of the country where the log splitter is used. Do not discharge into sewers, soil, or water.

MAKE THE WORKSHOP SAFE

Lock up the shop. Keep the log splitter away from children and other unqualified persons.

Specifications

Model number		LS PTO 30000
Motor (400V 3N~ 50Hz)		S6 11.1V IP54 5500 W
Size of the log	Dia.	8-40 cm
	Length	56~110 cm
Maximum force		30 Ton $\pm$ 10%
Hydraulic pressure		26.1 Mpa
Hydraulic oil capacity		30 L
Piston speed		94,8cm
Speed	Forward	12.5 cm/s
		3.7 cm/s
	Release	6.7 cm/s
Sound pressure level (LpA)		$\leq$ 80 db(A)
Vibration		2.5 m/s ²
Overall dimensions	Length	105 cm
	Width	170 cm
	Height	250 cm
Weight		373,1 kg

* S6 40%, periodic maintenance in continuous operation: the time of a load cycle is 10 minutes, the operating time under load is 4 minutes, the operating time without load is 6 minutes.

DEALING WITH AN ACCIDENT

Always keep a fire extinguisher and a first aid kit available for use in case of need. In case of emergency, always know the location of the nearest phone or keep a phone at the workplace. Also know the phone numbers of the nearest ambulance, doctor, and fire department. This information will be valuable in case of emergency.

SPECIAL WARNING

The splitting operation of the machine is designed to be operated by only one person. Although there is the possibility that other operators work with the machine (for example for loading and unloading), splitting operations must be carried out by only one operator;
The machine must not be used by children;
Description of the machine's functional tests;
The requirements for installation and maintenance, including a list of those devices, for example the two-hand control device, which must be checked, how often and by which method the check must be carried out;

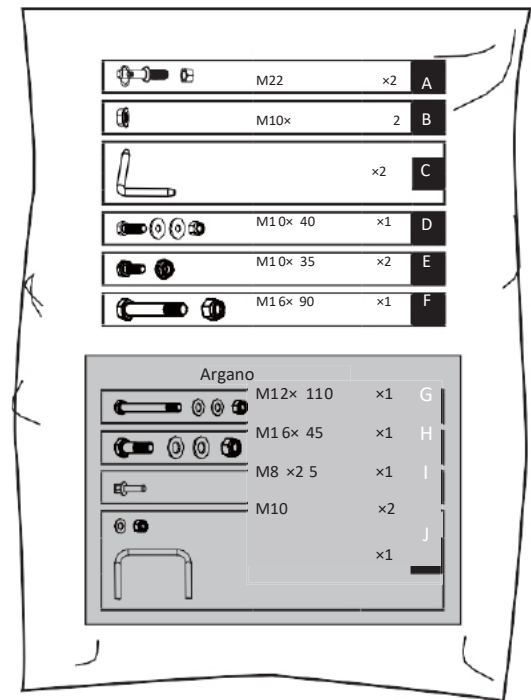
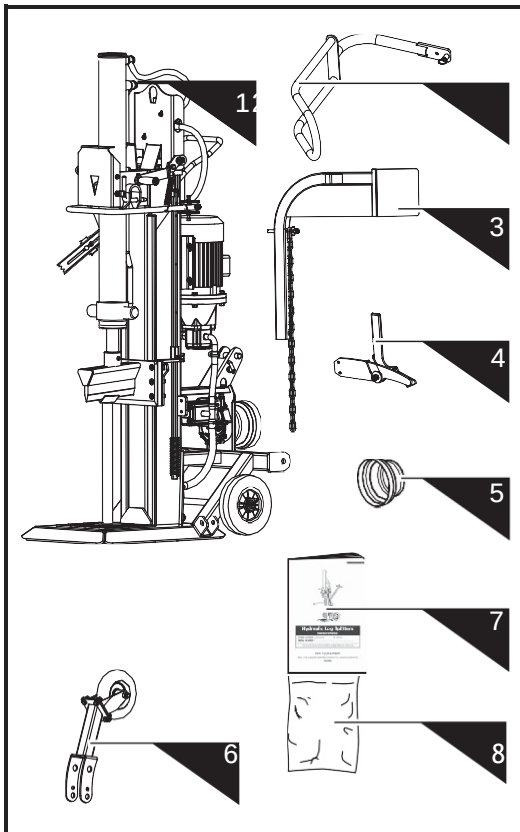
APPLICATION CONDITIONS

This log splitter is designed to operate at ambient temperatures between +5 °C and 40 °C and to be installed at altitudes not exceeding 1000 m above M.S.L. The surrounding humidity must be less than 50% at 40 °C. It can be stored or transported at ambient temperatures between -25 °C and 55 °C.

ELECTRICAL REQUIREMENTS

With the three-phase 400 Volt / 50Hz motor, the log splitter must be connected to the 400V $\pm$ 10% / 50Hz $\pm$ 1%Hz standard. Power supply that has under-voltage, overvoltage, overcurrent protection devices and a residual current device (RCD) with a maximum residual current of 0.03A. The connection to the network and the extension cable must have 5 wires = 3P + N + PE (3/N/PE). The connection to the network must have a maximum fuse of 16 A. Rubber electric connection cables must comply with EN60245 standard and are always marked with the symbol H 07 RN. The cables must be identified, as it is a legal requirement.

CONTENTS



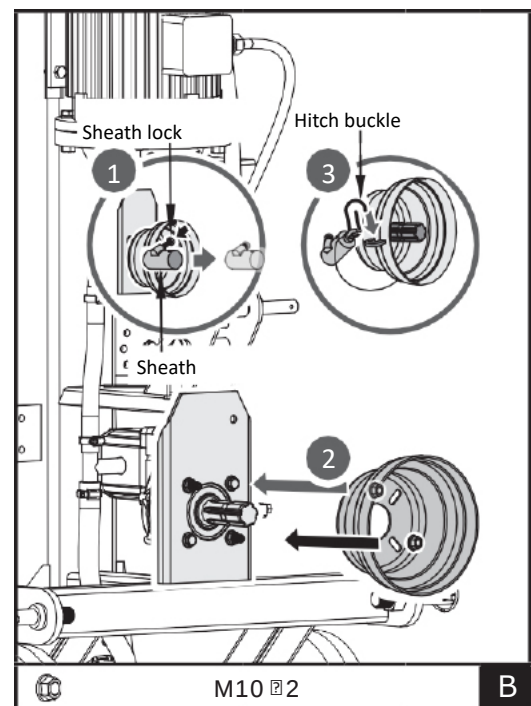
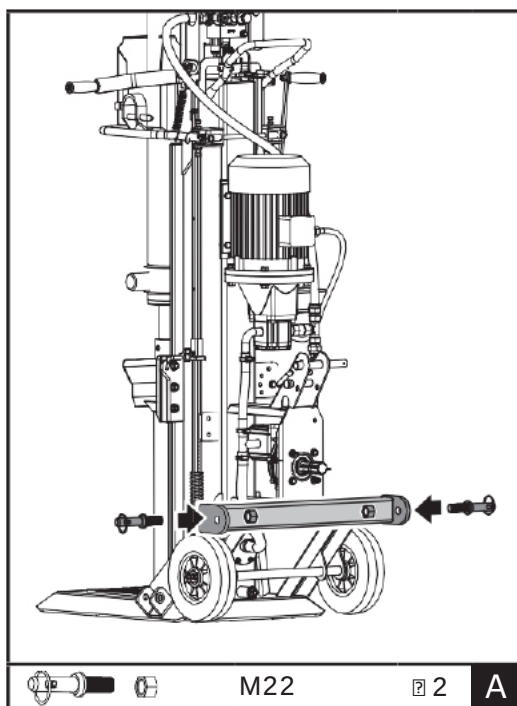
1. Log splitter frame and power unit
2. Protective arm
3. Log lifter
4. Retaining hook

5. Power take-off cover
6. Support wheel
7. Operator's manual
8. Tool bag, including

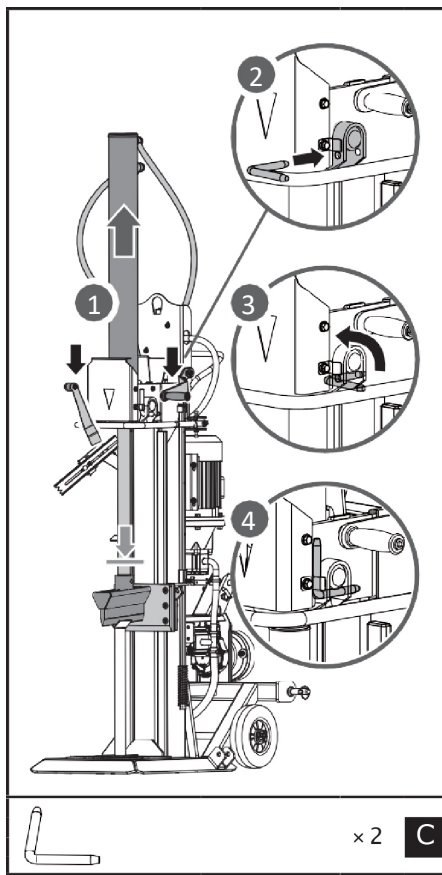
ASSEMBLY

1. Attach the hitch pins to the hitch bracket.

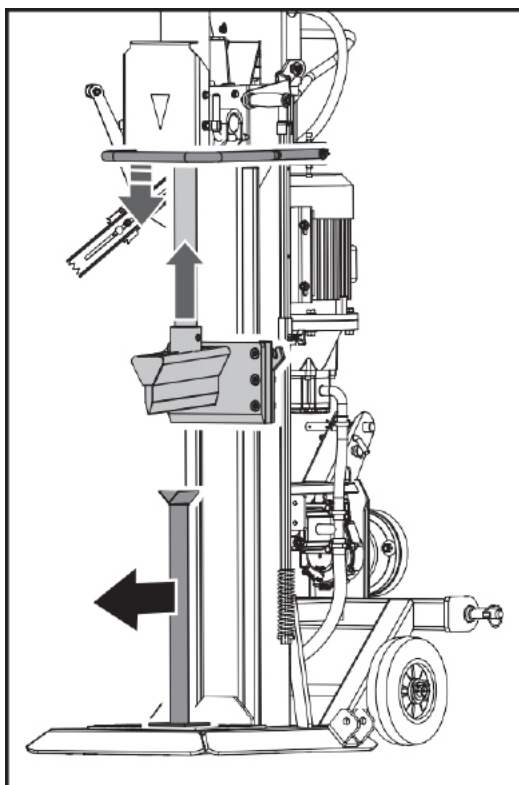
2. Attach the power take-off cover to the log splitter with two M10 nuts.



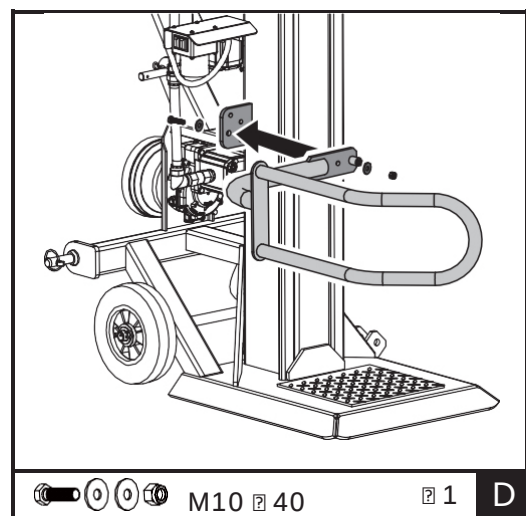
3. Holding the support against the wedge, lower both control handles to extend the wedge piston. Insert the L-pins to secure the cylinder to the log splitter. Lock the L-pins into the spring tabs.



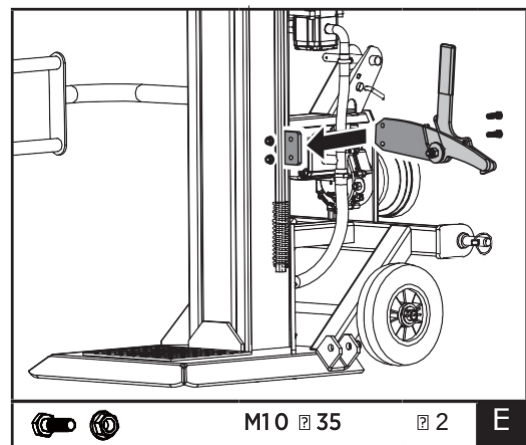
4. Release both control handles to retract the wedge piston. Remove the support.



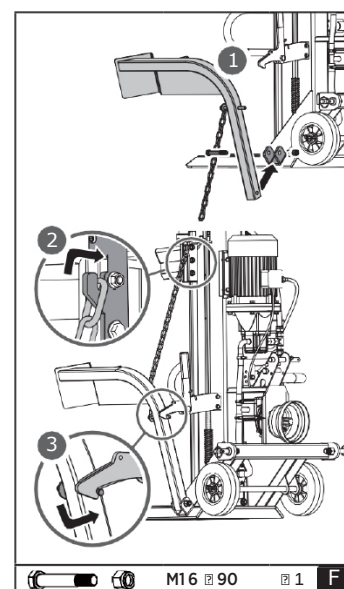
5. Align the hole and the locking pin of the protective arm with the mounting bracket. Secure the protection arm with an M10 × 40 hex bolt, two washers, and a nut from the tool bag.



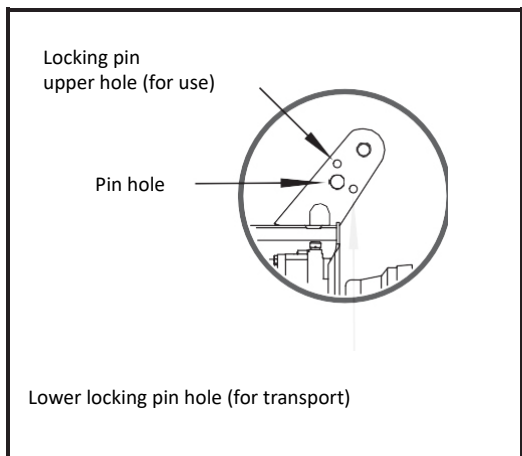
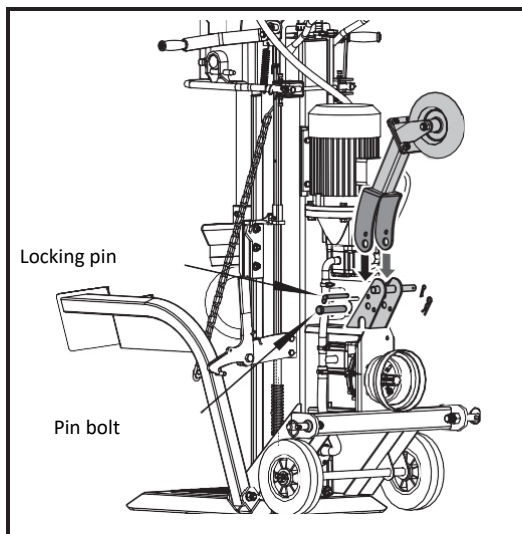
6. Position the fastening hook on the frame and secure it with two M10×35 hex bolts and nuts.



7. Place the log lifter inside the mounting bracket and align it with the holes of the bracket mounting. Secure with an M16×90 hex bolt and a nut. Hook the lifting chain to the wedge slide guide.

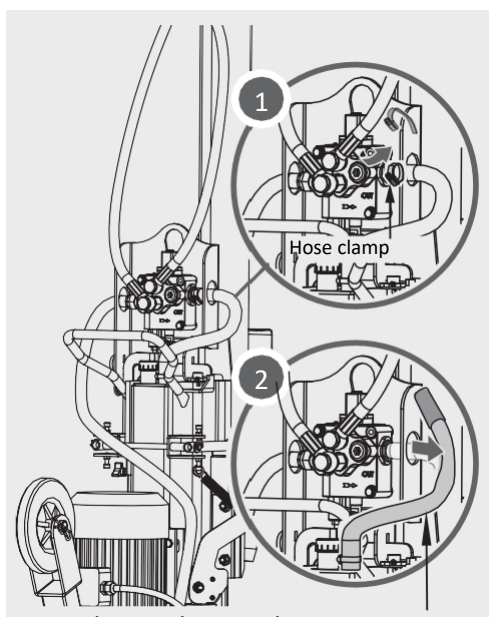


8. Install the support wheel with the locking pin and the rotation bolt. Insert the locking pin into the upper hole for work and insert it into the lower hole for transport.



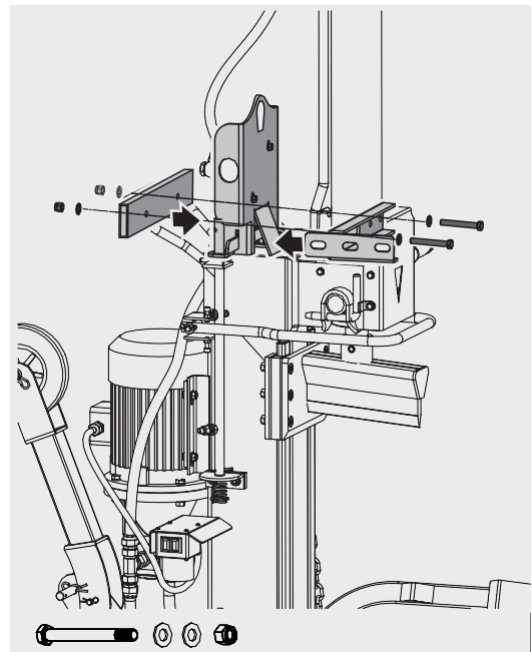
WINCH ASSEMBLY

Remove the hose connector from the T port of the valve and then the hose

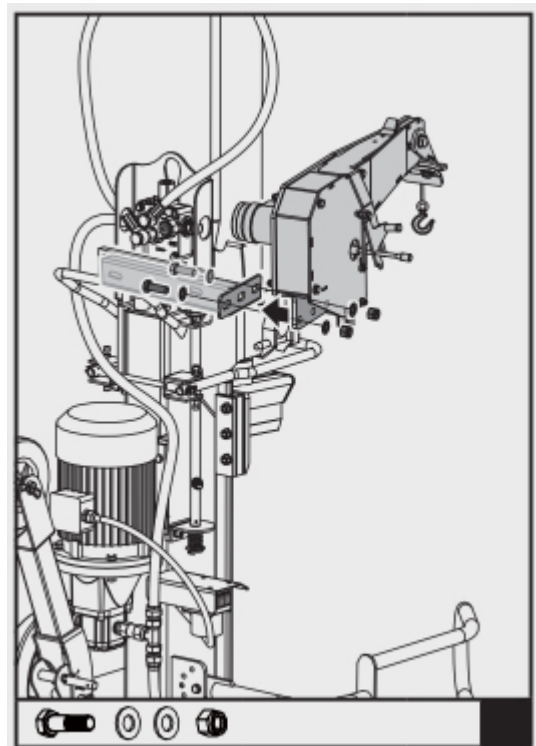


Log splitter oil return hose

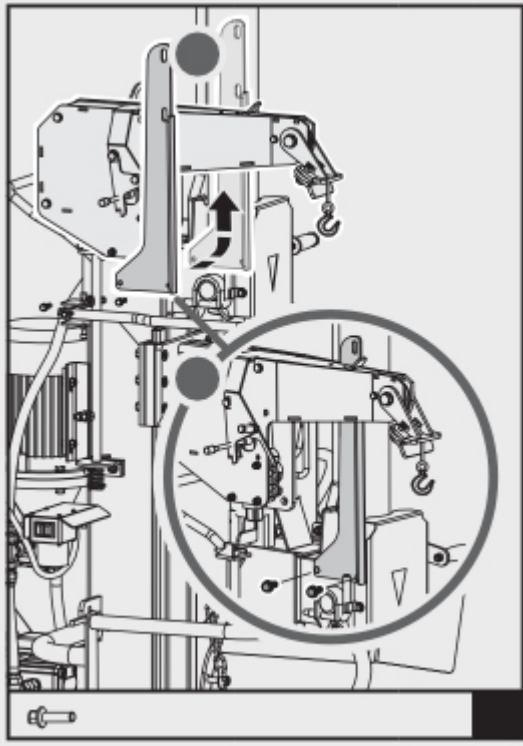
Mount the flat tube and bracket to the lifting plate of the log splitter, align the holes and secure them with two M12×110 bolts, washers, and nuts.



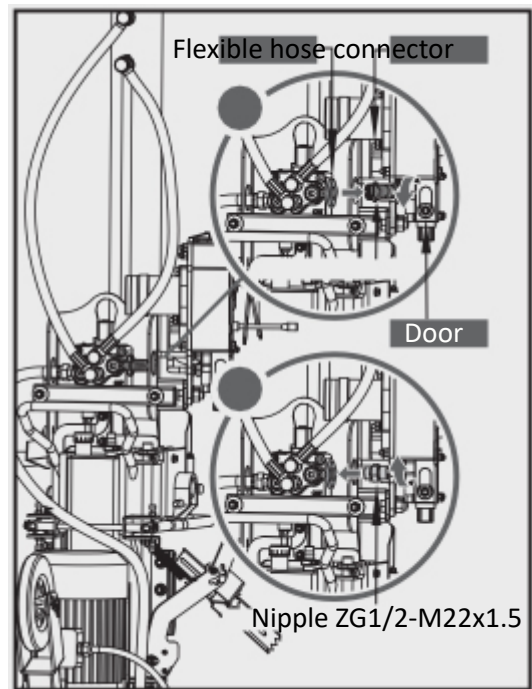
Connect the winch to the bracket using two M16×45 bolts, washers, and nuts.



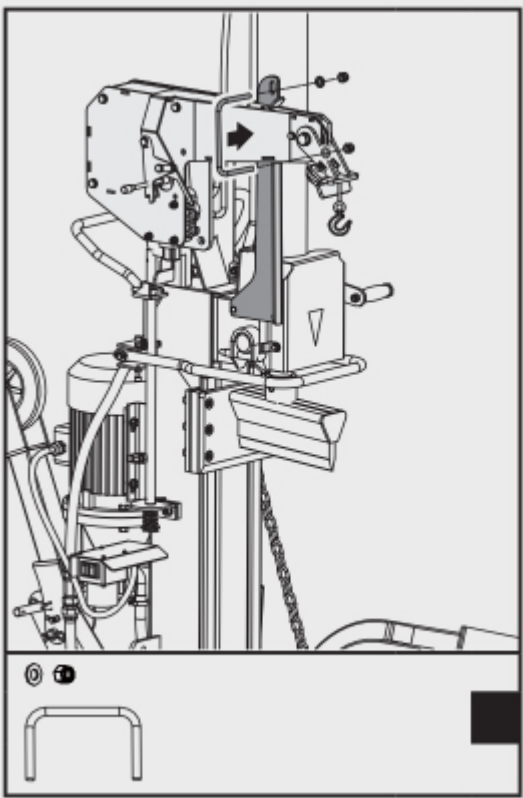
Attach the support plate to the bracket using two M8×25 bolts.



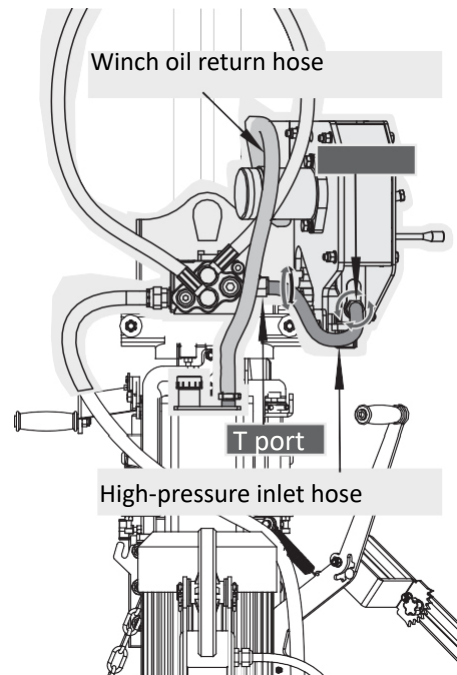
Connect the winch to the support plate using the U-bolt with washers and nuts.



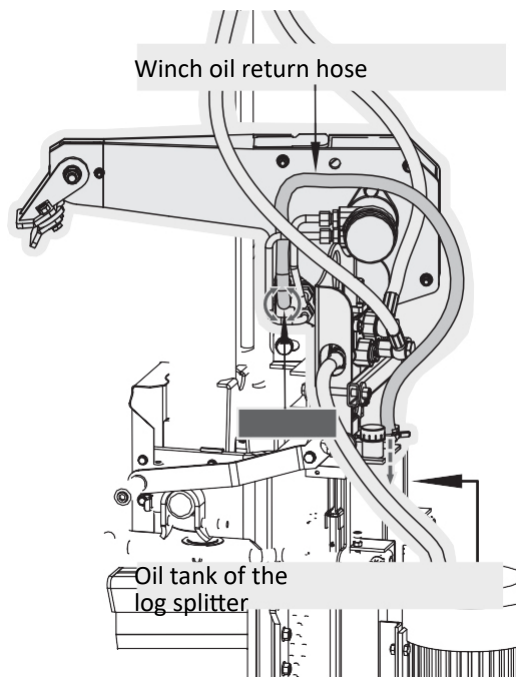
Connect the elbow end of the high-pressure inlet hose to the nipple on the T port and the other end to the P port of the winch.



Install the ZG1/2-M22 x1.5 nipple to the T port of the valve.



Mount one end of the winch oil return hose to the T1 port and the other to the oil tank of the log splitter.



SHAFT CONNECTION

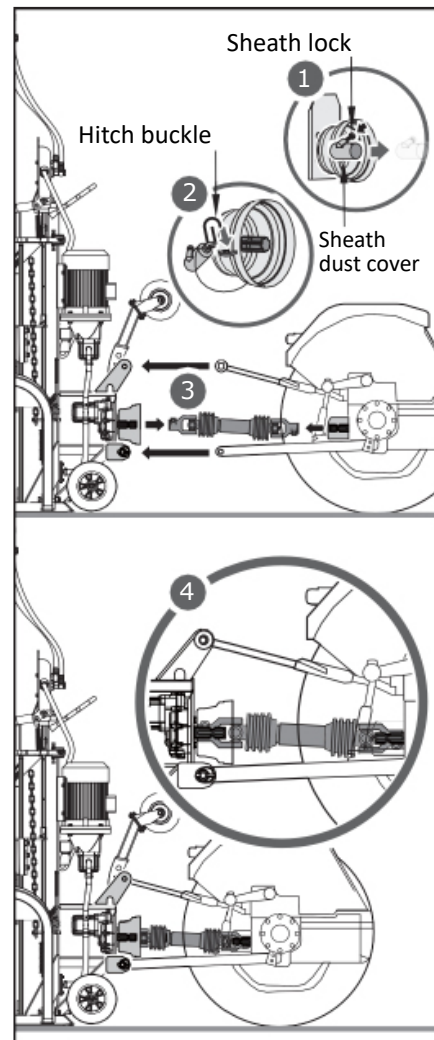


The log splitter can be operated by a PTO shaft (not supplied with the log splitter) which transmits the torque from the tractor during normal operation. The PTO shaft represents an extreme hazard. Prepare and understand the entire safety and instruction manual provided with the PTO shaft.

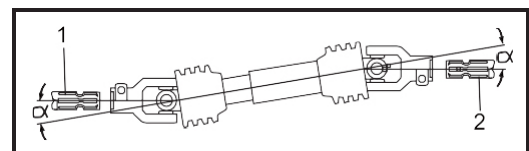
1. Back the rear of the tractor towards the log splitter. Position the lower lift arms close enough to the hitch pins of the log splitter. Engage the parking brake of the tractor and turn off the engine.
2. Block the rear wheels on both the front and rear sides with chocks or other suitable objects.
3. Remove the self-locking plastic sleeve from the log splitter and hang it on the PTO guard.
4. Slide the lower lift arms onto the connecting pins of the log splitter and secure them with pins lock nut.
5. Place the upper lift arm inside the mounting bracket and align it with the holes of the mounting bracket. Insert the hitch pin to secure the upper lift arm in position.
6. Slide the PTO shaft over the ends of the PTO shaft on the gearbox and tractor respectively. Press inward the spring pins located at both ends of the PTO shaft.

Continue sliding the drive shaft over the ends of the PTO shaft until the spring pins pop out and lock into the catches at the ends of the PTO shaft.

The gearbox PTO shaft end has a diameter of 1-3/8" (34.8 mm) and a 6-spline fitting (Category 1 standard PTO).



Keep the end of the PTO shaft of the splitter (1) and the end of the PTO shaft of the tractor (2) parallel, as seen from above and from the sides of the shafts. Keep the angles of the PTO shaft joint (α) as small as possible.



7. Attach the PTO shaft safety chains to the fixed parts of the log splitter and tractor to prevent the guard from rotating.

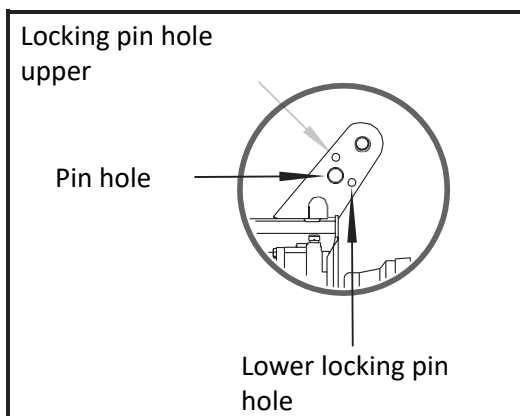
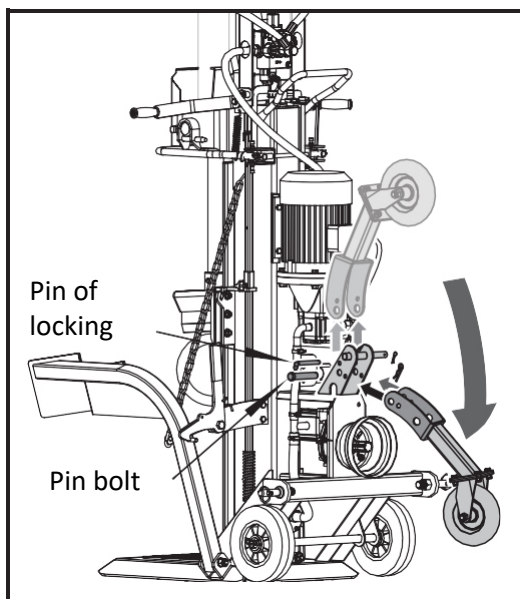
SHAFT DISCONNECTION

1. Reduce the tractor throttle to MINIMUM before disengaging the power take-off. Engage the brake of parking and turn off the engine.
2. Pull up the locking pins and slide the lower hitch arms of the tractor out of the pins of the log splitter connection.
3. Lift the hitch pin and slide the upper lift arm out of the mounting bracket.
4. Release the spring pins located at both ends of the drive shaft. Slide the PTO shaft off the ends of the PTO shaft at the gearbox and the tractor respectively.
5. Install the self-locking plastic sleeve.

Inside the self-locking sleeve there is a motor contact device. When the sleeve is removed, the engine cannot start. Therefore, the machine operates only when it is connected either to the engine or only to the power take-off.

TRANSPORT

Remove the locking pin, lower the support wheel into the transport position, then insert the locking pin into the lower hole and secure it with the R pin.



The 3-point hitch to the tractor allows the log splitter to be moved easily.

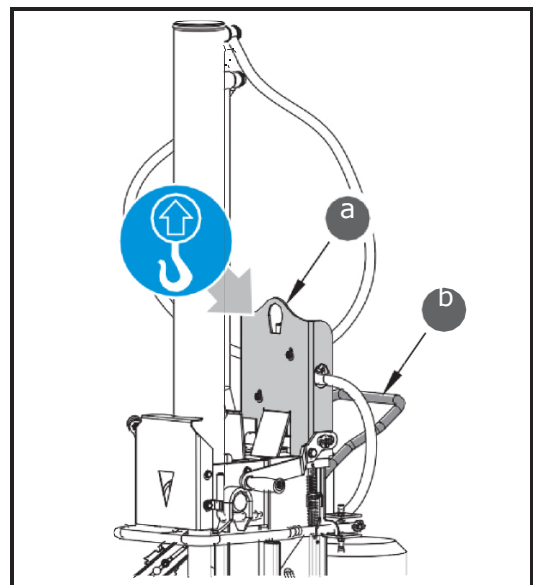
Allow for greater length in driving situations, such as during turning, parking, and crossing.



Before transport, make sure that the log splitter is properly secured and firmly to the tractor and that the safety chains of the power take-off are in position. Make sure that the log splitter is raised high enough to clear all obstacles during transport. Never transport the log splitter with the power take-off engaged.

DELIVERY OF THE LOG SPLITTER

The log splitter is equipped with 2 wheels for minor movement. To move the log splitter to the worksite. Grip the handle (b) to slightly tilt the log splitter after ensuring that the oil tank cap is tightened.

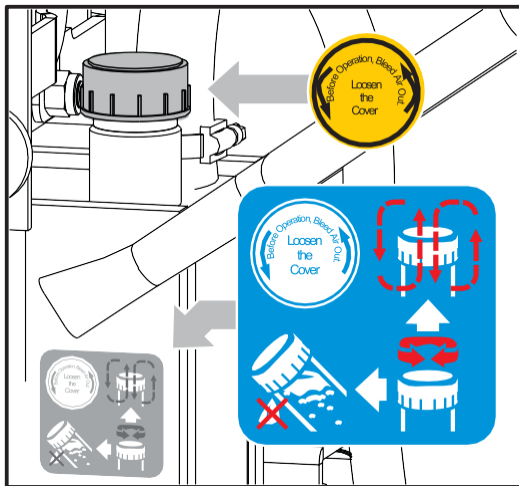


If using a crane, spread the lifting sling at the lifting point (a). Never attempt to lift the log splitter by the handle (b).

OPERATION OF THE LOG SPLITTER

Plan your work area. Work safely and save effort by planning your work in advance. Make sure your logs are positioned where they can be reached easily. Establish a place to stack the split wood or load it onto a truck or other nearby means of transport. Position the log splitter on solid and level ground.

Applying a thin layer of grease to the piston surfaces before operation will extend its lifespan.



Bleed the air from the hydraulic system before starting the log splitter. The hydraulic oil tank cap must be loosened with a few turns until air can enter and exit the tank without any problems.

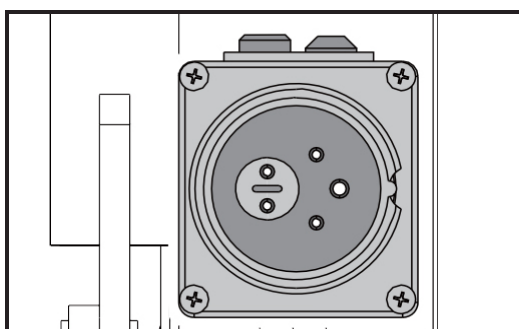
The airflow through the oil tank filler must be detectable during operation.

Before moving the log splitter, make sure that the oil tank cap is tightly closed to prevent oil leaks from this point.



If the oil tank cap is not loosened, the air sealed in the hydraulic system is compressed after being decompressed. This continuous compression and decompression of air will blow the seals of the hydraulic system and cause permanent damage to the log splitter.

Turn on the engine switch to start the log splitter. To stop the machine, simply turn the engine switch to the OFF position.



Make sure of the direction of rotation of the motor. Start the engine, the wedge piston should automatically rise to the highest position. If the wedge piston is already in the highest position when the engine starts, grasp both control levers and lower them. The wedge piston should begin to move downward. If no piston movement is detected after starting the engine, immediately turn off the engine to change its polarity by turning the pole switching device inside the plug with a screwdriver.



400V 3N



Never allow the engine to run in reverse. This it damages the pump and voids the warranty.

The tractor's power take-off can drive a separate hydraulic pump on the log splitter to perform the log splitting function. Set the tractor throttle to MINIMUM before engaging the power take-off with the log splitter attached.

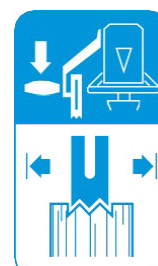
Increase the tractor throttle to RUN THE REQUIRED RPM to achieve a PTO speed of 540 rpm before splitting. Reduce the tractor throttle to MINIMUM before disengaging the power take-off.

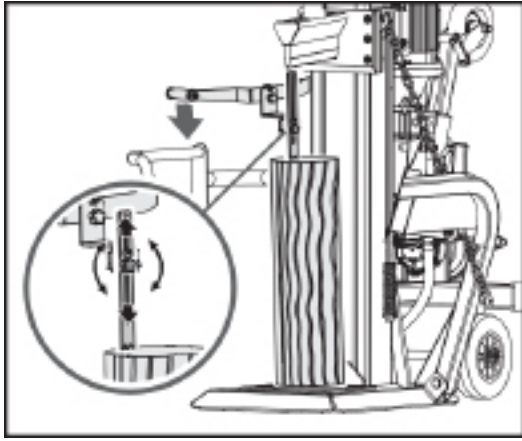


Risk of the log splitter overturning due to the resulting torque during operation, which can cause serious injury and damage. The log splitter must be secured using a 3-point hitch to the tractor. The tractor's hydraulics make the log splitter safe against overturning during operation, and yet allows it to be moved easily. Always make sure that the parking brake is engaged on the tractor and that the rear wheels are blocked with chocks on both sides, front and back.

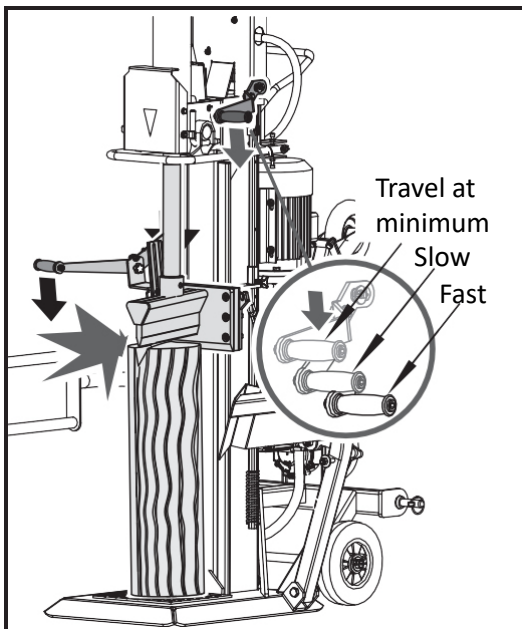
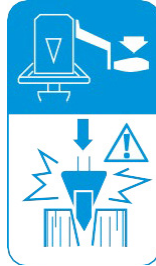
Splitting

1. Place the log vertically on the support table, so that it lies flat on its face. Press the left lever to lower the extended log clamping jaw against the log to secure it. The extended log clamping claw can be adjusted to fit logs of different heights.

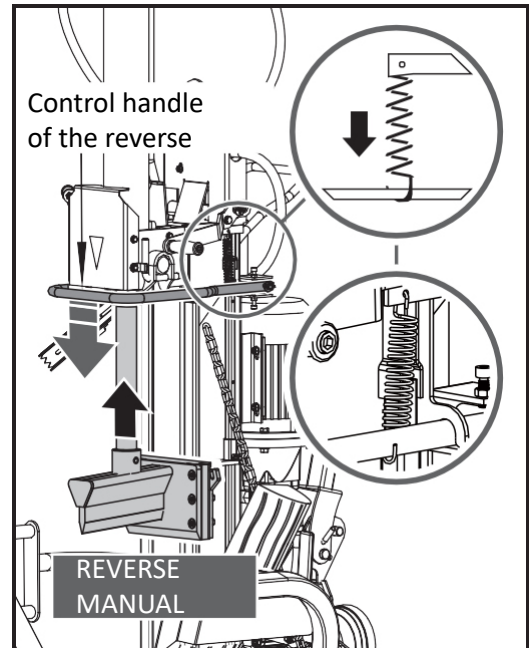
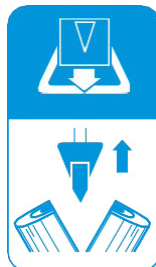




2. Hold the left press lever. Meanwhile, move the log splitter wedge down by pressing the right splitting lever halfway to split the log slowly at first, then press it all the way until the log is completely split.



3. Return the splitting wedge to the starting position. Operate the lever of the spring control to raise the wedge above the height of the log to be split.

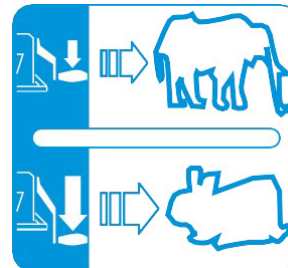


The spring is already attached to the handle at the factory.

Splitting lever

The splitting force and speed are controlled by the splitting lever.

The first half of the splitting lever's travel is the minimum speed; press the splitting lever halfway to achieve maximum splitting force at reduced speed to split the log at the beginning or particularly hard and seasoned logs;



Press the splitting lever towards the end for higher speed with less splitting force to finish splitting or to split regular logs.

It can be moved simply by slightly raising and lowering the splitting lever.



Do not attempt to split green logs. Dry and seasoned logs split much more easily and do not jam as frequently as green wood.



Break the log in the direction of its grain growth. Do not place the log across the log splitter for splitting. This can be dangerous and can seriously damage the machine.



Do not remove jammed logs with your hands. Never use other people to help you free a jammed log.

Stack while working. This will provide a safer work area, keeping it tidy, and will avoid the risk of tripping or damaging the power cable.



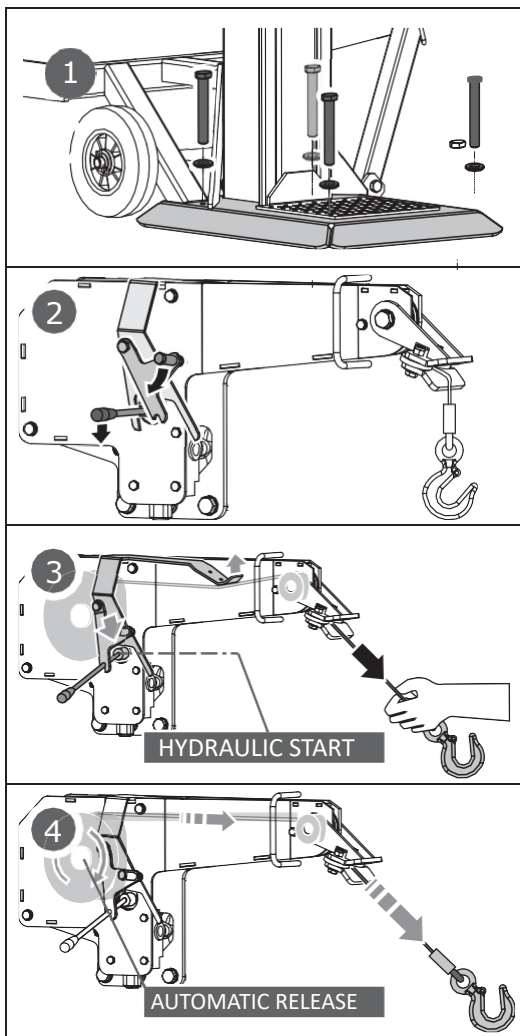
Split wood and accumulated chips can create a hazardous working environment. Never continue working in a messy work area that can cause slips, trips, or falls.

OPTIONAL WINCH OPERATION

The accessory hydraulic winch makes it simple and efficient to handle heavy logs.

Release the wire rope

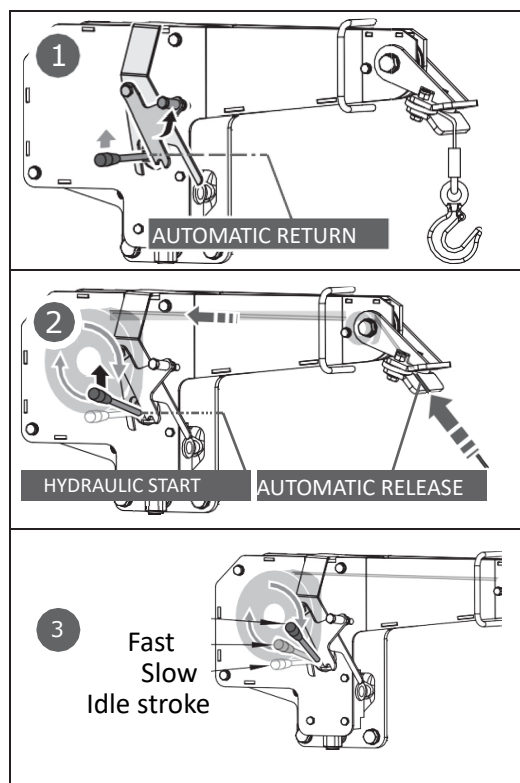
1. Bolt the base to the ground to make it stable.
2. Press down the valve handle and rotate the limit plate to hold the handle in the arc.
3. Slightly pull out the wire rope to force the reversing valve to start the drive motor. Then the wire rope can be released automatically.
4. When the cable is released at the end, the reversing valve returns to its original position and the drive motor stops working.



Do not press down the valve handle when the wire rope is released at the end! Otherwise, the wire rope will retract!

Retract the wire rope

1. Press down the valve handle and rotate the end plate to release the handle from the arc.
2. Push up the valve handle to retract the wire rope. The push angle controls the retraction speed of the wire rope as shown in Fig. 3.
3. Release the valve handle for automatic return and then the winch stops working and the wire rope does not move.



Keep the hook away from the cable bracket to prevent it from retracting excessively!

RELEASING A JAMMED LOG

Stack while working. This will provide a safer work area, keeping it tidy, and will avoid the risk of tripping or damaging the power cable.

OIL REPLACEMENT

The hydraulic system is a closed system with an oil tank, oil pump, and control valve. A low oil level can damage the oil pump. Check the oil level regularly with the dipstick. The oil must be changed completely once a year.

The following hydraulic oils or 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

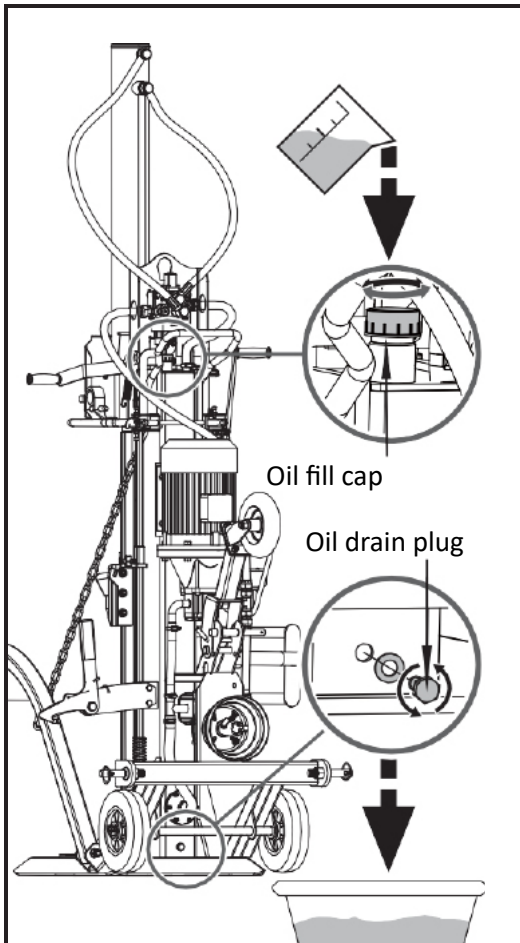
Make sure that the moving parts stop and that the log splitter is disconnected and the PTO shaft is disconnected.

Use a drain pan to facilitate the removal of all used oil and particles.

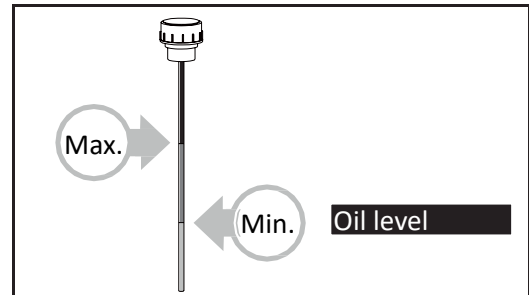
Remove the oil drain plug to drain the oil from the hydraulic transmission system. Examine the oil for metal shavings as a precaution for future problems.

After the oil has been completely drained from the machine, reinstall the drain plug.

Add the recommended oil to the hydraulic transmission system through the fill cap opening.



Read the dipstick to determine the maximum and minimum oil levels. Insufficient oil can damage the oil pump. Overfilling can cause excessive temperature in the hydraulic transmission system.



Apply sealant to the fill cap and reinstall it.

After an oil change, operate the log splitter a few times without actually splitting.

SHARPENING WEDGE

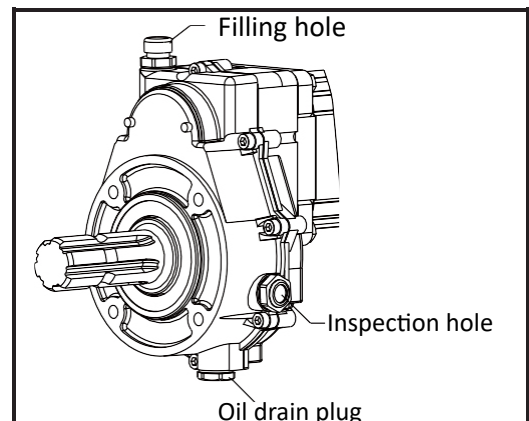
This log splitter is equipped with a reinforced splitting wedge whose blade is specially treated. After long periods of operation, and when necessary, sharpen the wedge with a fine-toothed file, removing any burrs or flat spots on the edge.

GEARBOX LUBRICATION

The gearbox is prepared using SAE90 gear oil. Drain the gearbox oil after the first 25 hours of use and refill with new oil as specified. Then change every 250 hours of use or every six months, whichever comes first.

After each oil change, check that the correct amount of oil has been poured into the gearbox.

Check the oil every 8 hours: The oil level is correct if the lower edge of the inspection hole is almost covered with oil.



TROUBLESHOOTING

Problem	Cause	Solution
The engine does not start	The switch is off	Turn on the switch
Incorrect direction of motor rotation	Incorrect connection	Change the pole device in the plug with a screwdriver
		Polarity reversal by the electrician
The log splitter does not work with the motor running	The valve does not open due to loosened connecting parts	Check and tighten the parts
	Bent control levers or connecting parts	Repair the bent parts
	Lower the hydraulic oil level	Check and fill the hydraulic oil
The log splitter operates with abnormal vibrations and noise	Lower the hydraulic oil level	Check and fill the hydraulic oil



WARNING: ALL REPAIR WORK MUST BE CARRIED OUT BY A SPECIALIST FOR THIS PRODUCT.

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Blue Bird Industries Fabbrica Motori s.r.l.
Via Due Camini, 19 36010 Zané (VI) Italia

2) DESCRIPTION OF THE MACHINERY – BESCHREIBUNG DER MASCHINE – DESCRIPTION DE LA MACHINE – DESCRIPCION DE LA MAQUINARIA – DESCRIZIONE DELLA MACCHINA – BESCHRIJVING VAN DE MACHINE – BESKRIVELSE AF MASKINEN – DESCRIÇÃO DA MAQUINA – KONEEN NIMITYS – MÅTE RIELSLAG – BESKRIVELSE AV MASKINERIE – ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ – OPIS MASZYN:
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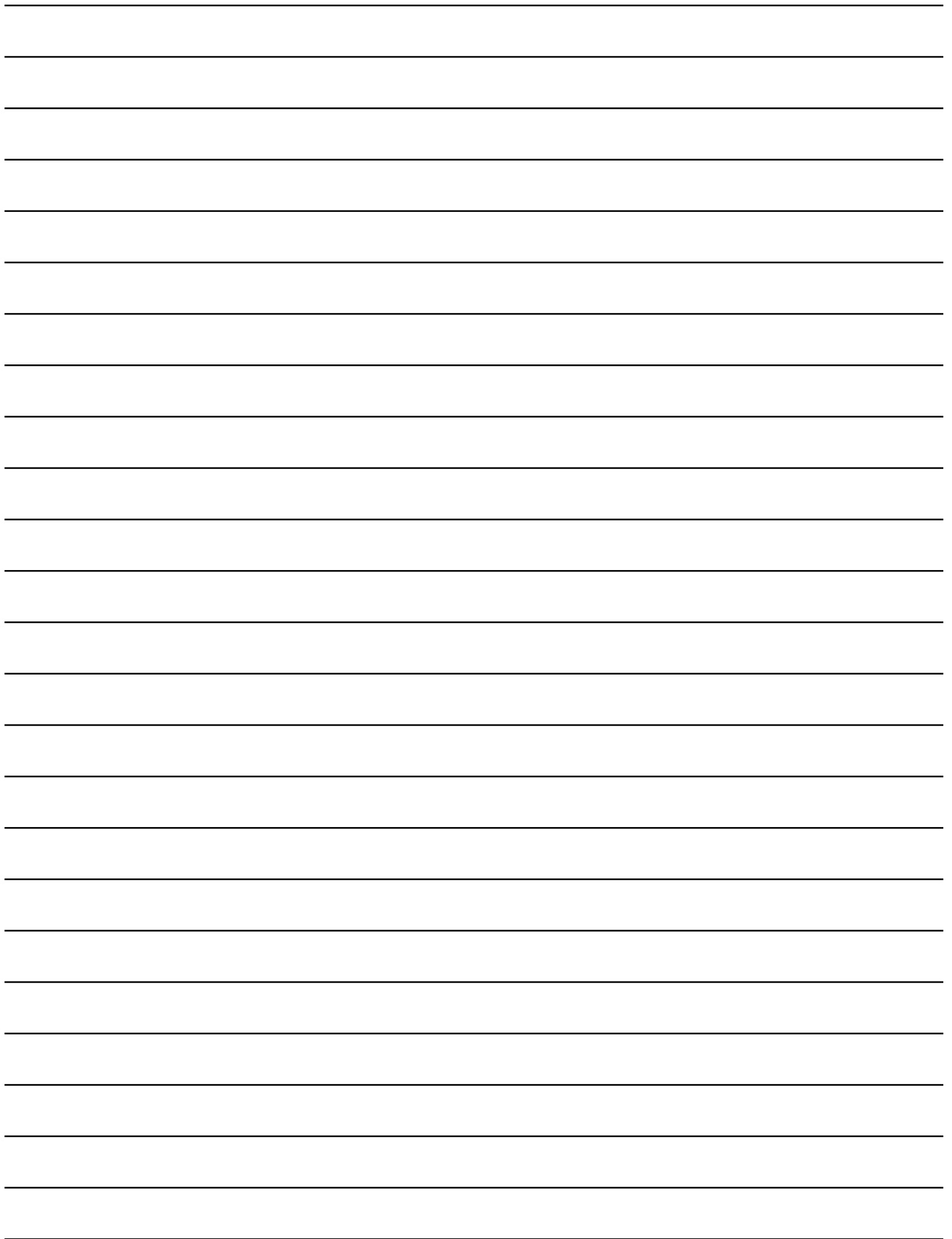
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