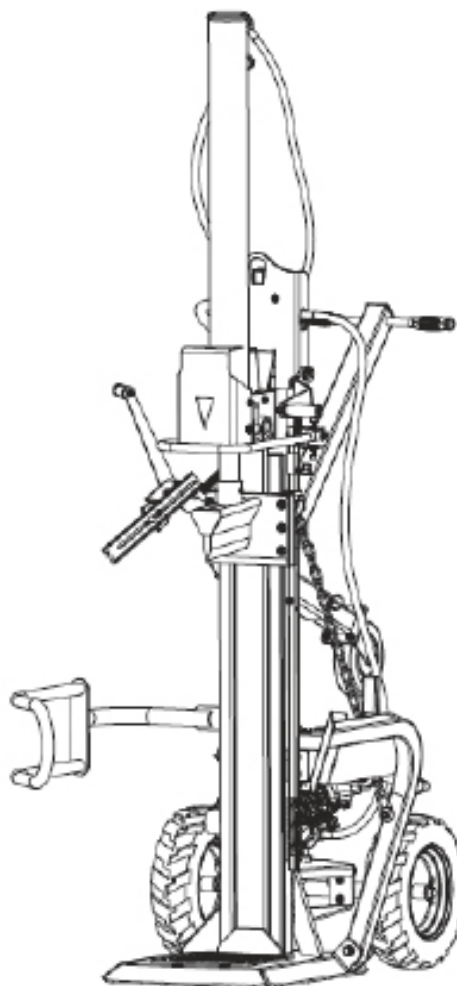




**BLUEBIRD
INDUSTRIES**



Hydraulic log splitter

Operator's Manual

MODEL NUMBER: ☐ LSL 16000 ☐ LSL 22000

SERIAL NUMBER: _____

Both the model number and the serial number can be found on the main label.

You should keep both 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 according to strict quality standards to meet superior performance criteria. 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.



Before using your new log splitter, carefully read these operating instructions. 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 prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle 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 environmentally safe recycling.

SYMBOLS

The identification plate on the machine may display these 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 hearing protection!



Risk of slipping



Keep your workspace tidy! Disorder can cause accidents.



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



Do not smoke or light open flames.



Dispose of used oil in an environmentally friendly way.



Do not touch parts that are hot due to operation. Severe burns may occur.



Danger! Keep away from moving parts!



Do not remove jammed logs with your hands.



Warning! Thrown objects.



Before starting any maintenance or cleaning, stop the engine.



Avoid injuries caused by the movement of the splitting blade.



Keep bystanders away from the work area.

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 specific potential hazards that characterize it. Be thoroughly familiar with the controls and the proper use of the equipment.

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. Disorganized areas promote injuries. 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 paint fumes, solvents, or flammable liquids pose a potential hazard.

WEAR APPROPRIATE CLOTHING

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

UNDERSTAND YOUR LOG SPLITTER

Check your 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 all nuts, bolts, screws, hydraulic fittings, hose clamps, etc. are properly 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.

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 impact-resistant lenses. They are not safety glasses.

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 adult supervision.

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 tool overturning 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.

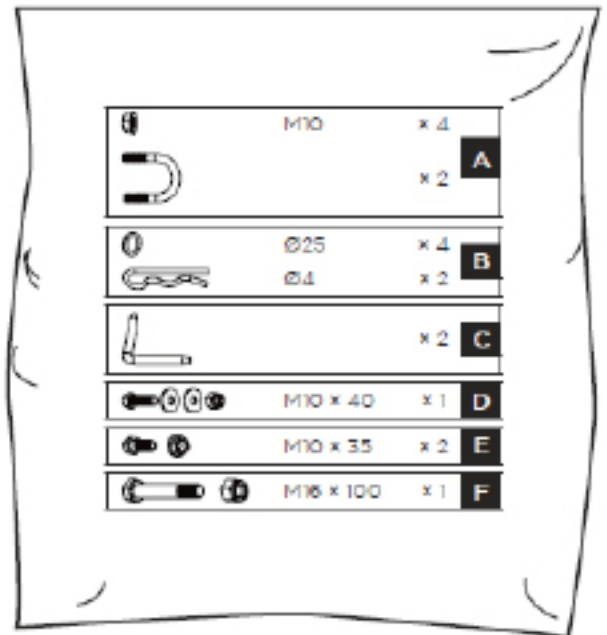
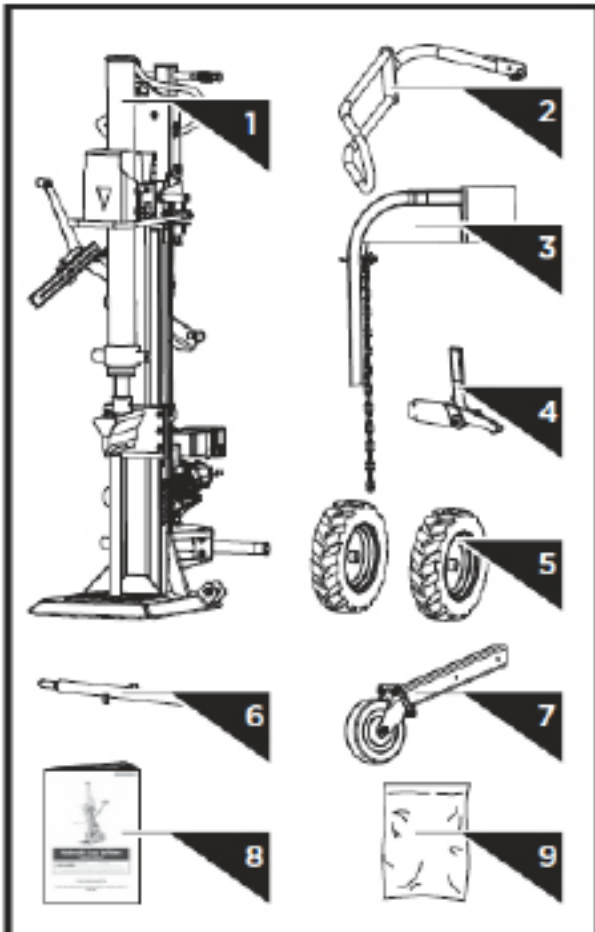
PROTECT YOUR HANDS

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.

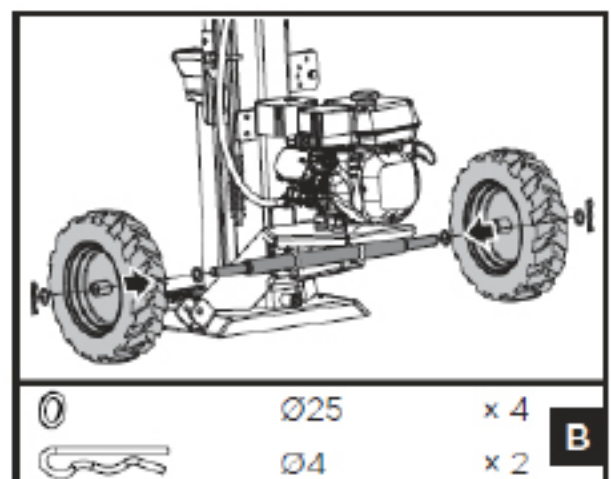
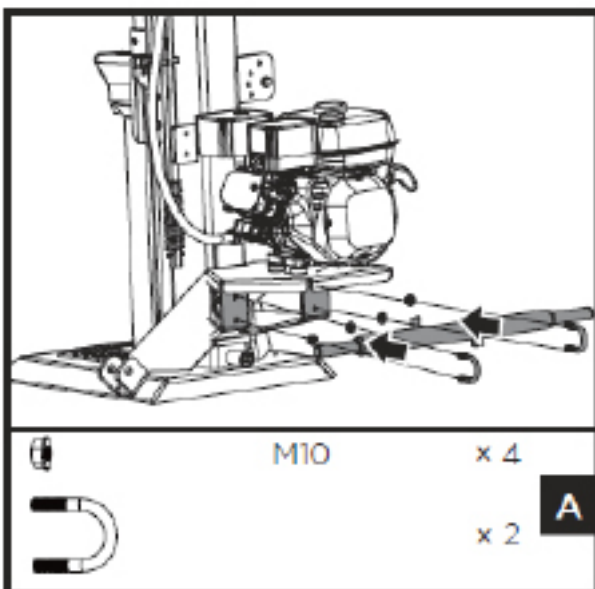
PROVIDED CONTENTS



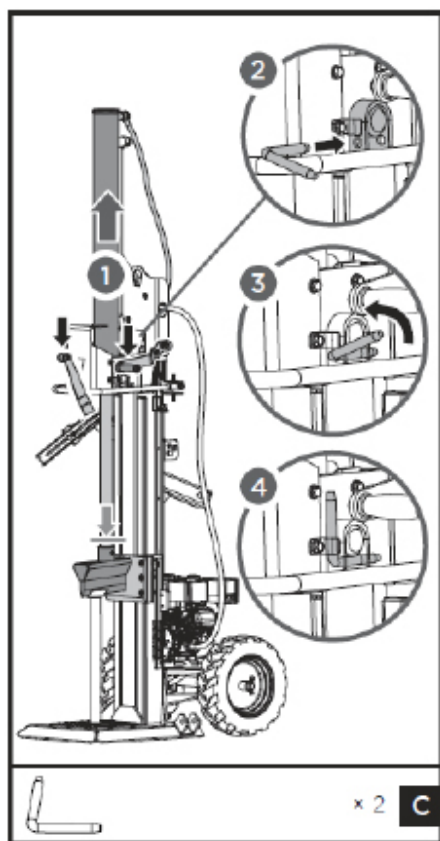
1. Log splitter frame and engine
2. Protective arm
3. Log lifter
4. Retaining hook
5. Wheel
6. Wheel axle
7. Support wheel
8. Operator's manual
9. Tool bag, including

ASSEMBLY

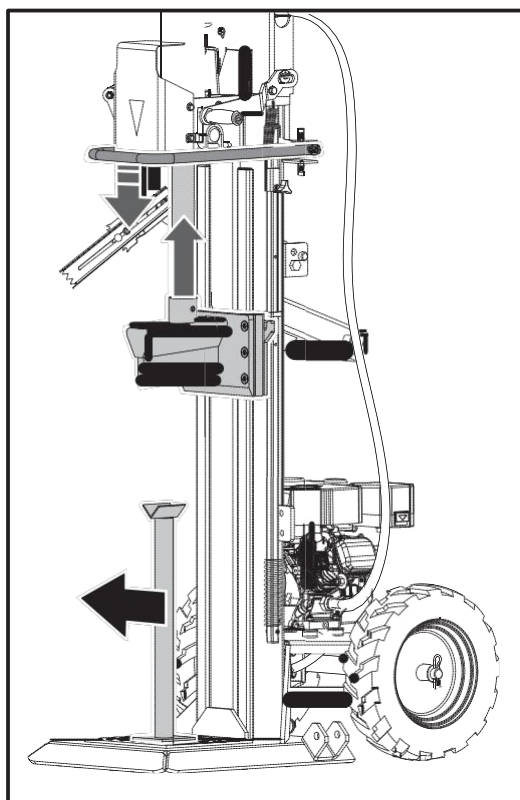
1. Attach the wheel axle to the log splitter with the U-bolts and locknuts.
2. Place a washer on the axle, then a wheel followed by another washer, and secure with a cotter pin. Repeat the above procedure for the other side.



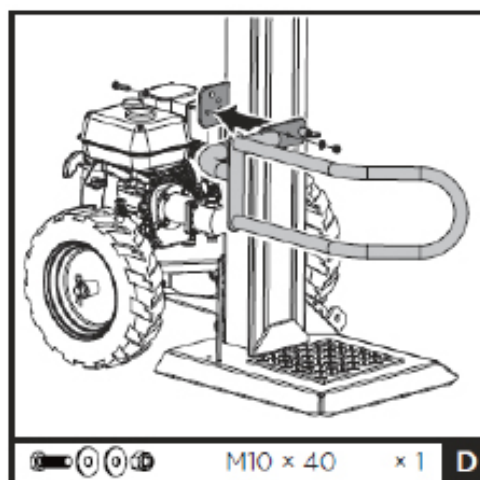
3. While holding the support against the wedge, lower both control handles to extend the wedge piston. Insert the L-pins to secure the cylinder to the log splitter. Lock the L-pins into the spring tabs.



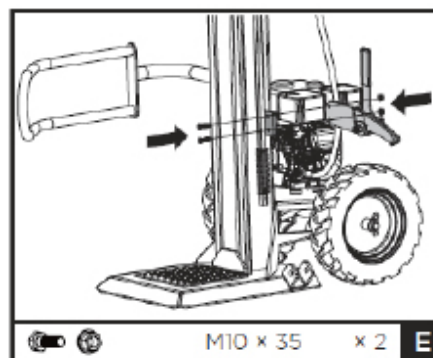
4. Release both control handles to retract the wedge piston. Remove the support.



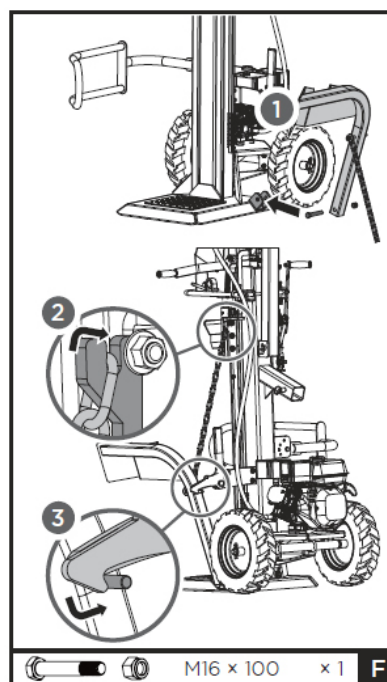
5. Align the hole and the locking pin of the protective arm with the mounting bracket. Secure the protective arm with an M10 × 40 hex bolt, two washers, and a nut from the tool bag.



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

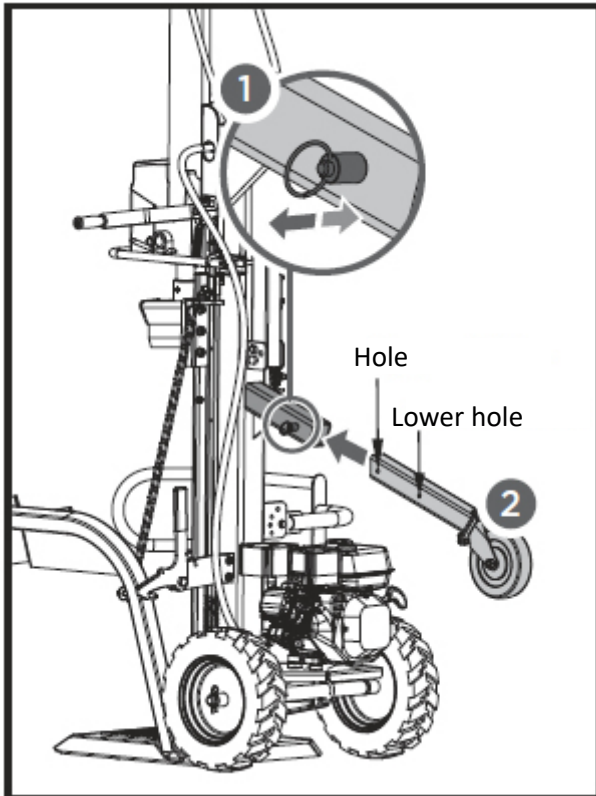


7. Place the log lifter inside the mounting bracket and align it with the holes in the mounting bracket. Secure with an M16×100 hex bolt and a nut. Hook the lifting chain to the wedge slide guide.



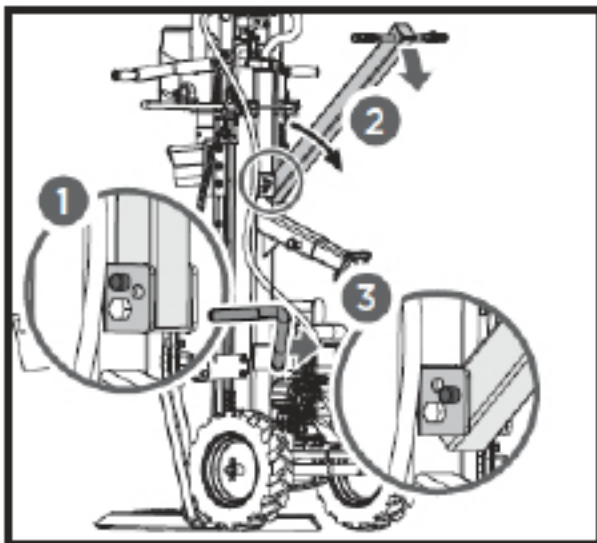
TRANSPORT

Pull the spring pin and slide the square tube of the support wheel into the support. Release the spring pin to secure it after selecting the appropriate hole.



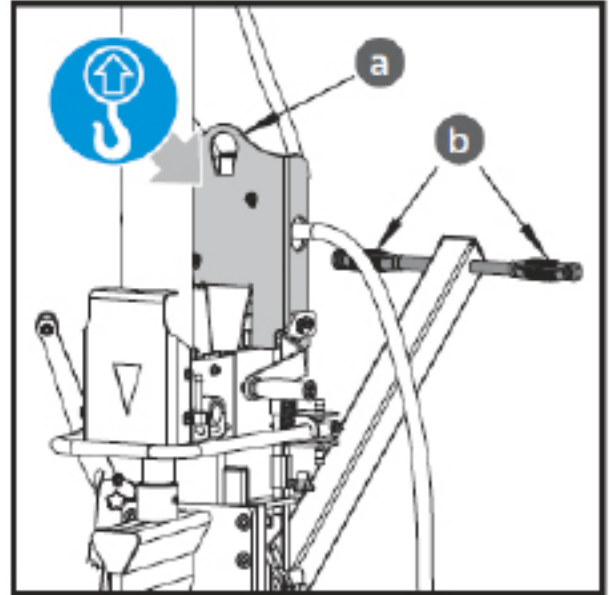
The transport handle is secured in the upright position by the pin with hook to facilitate delivery.

Remove the hook and the pin. lower the handle in the direction of the arrow as shown and secure it by fastening the pin with the hook to the outer hole.



DELIVERY OF THE LOG SPLITTER TO THE WORKSITE

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.

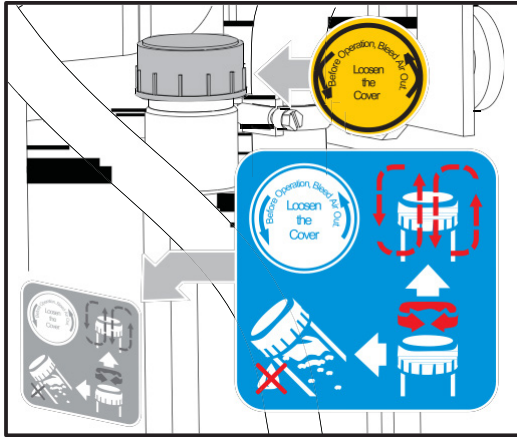


If using a crane, spread the lifting sling in the lifting point (a). Do not attempt to ever lift the log splitter on the handle (b).

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 easily reached. Establish a place to stack the split wood or load it onto a truck or other nearby means of transport. Place the log splitter on solid, 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 by a few turns until air can enter and exit the oil tank freely.

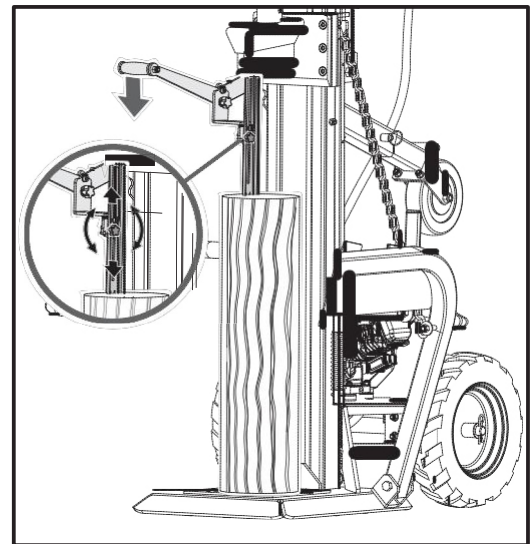
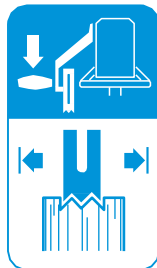
The airflow through the tank fill of the oil must be detectable during operation. Before moving the log splitter, make sure that the oil tank cap is tightly closed to prevent oil leaks from this point.



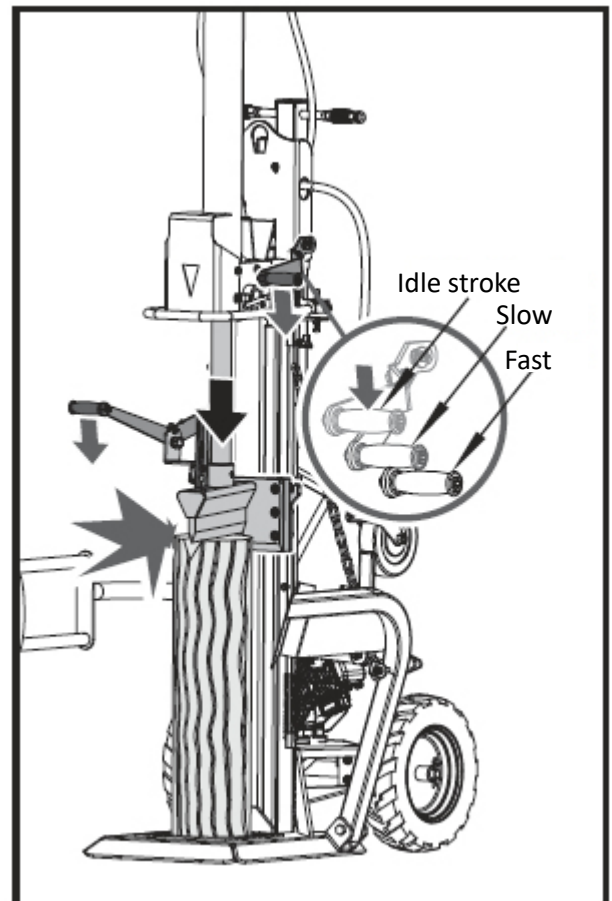
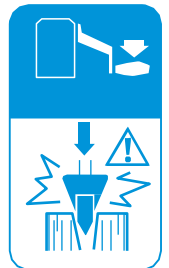
If the cap is not loosened on the oil tank, the sealed air in the hydraulic system is compressed after being decompressed. This continuous compression and decompression of the air will blow the seals of the hydraulic system and will cause permanent damage to the log splitter.

Splitting

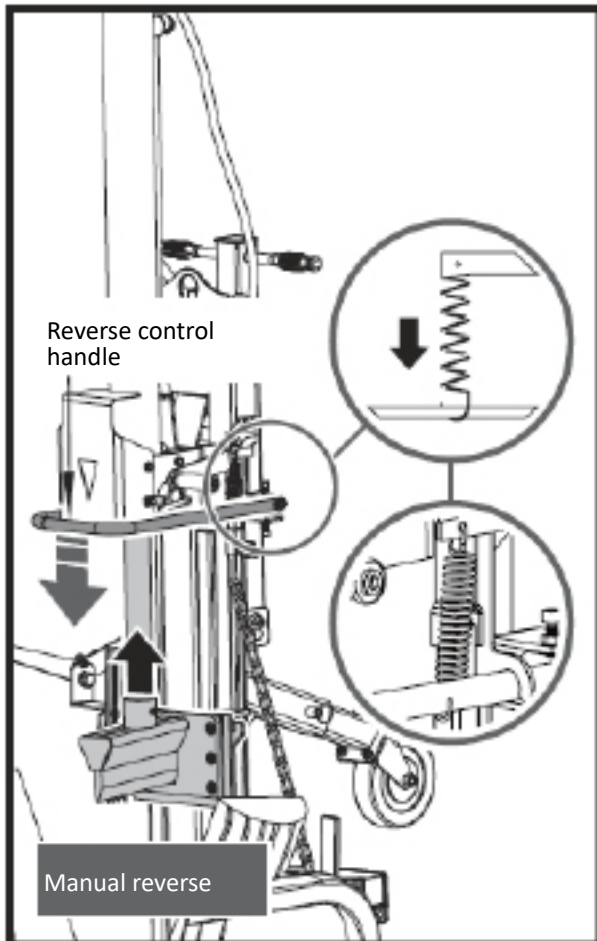
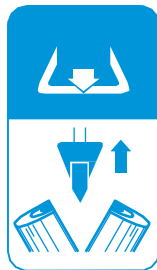
1. Place the log vertically on the support table, so that it lies flat on its face. Press the left lever to lower the extended log clamping jaw against the log to secure it. The extended log clamping claw can be adjusted to fit logs of different heights.



2. Hold the left press lever. Meanwhile, move the log splitter wedge downward 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 spring control lever to raise the wedge above the height of the log to be split.



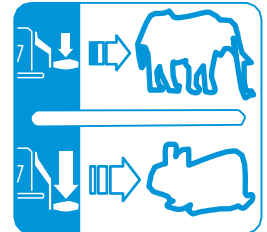
The spring is already attached to the handle in the factory.

Splitting lever

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

The first half of the splitting lever's stroke is at 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.



Split the log in the direction of its growing grain. 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 stuck.



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

RELEASING A JAMMED LOG

Do not remove jammed logs with your hands. In case of jamming, stop the engine and loosen the log with a downward blow of a hammer.

REPLACING THE OIL

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 completely changed once a year.

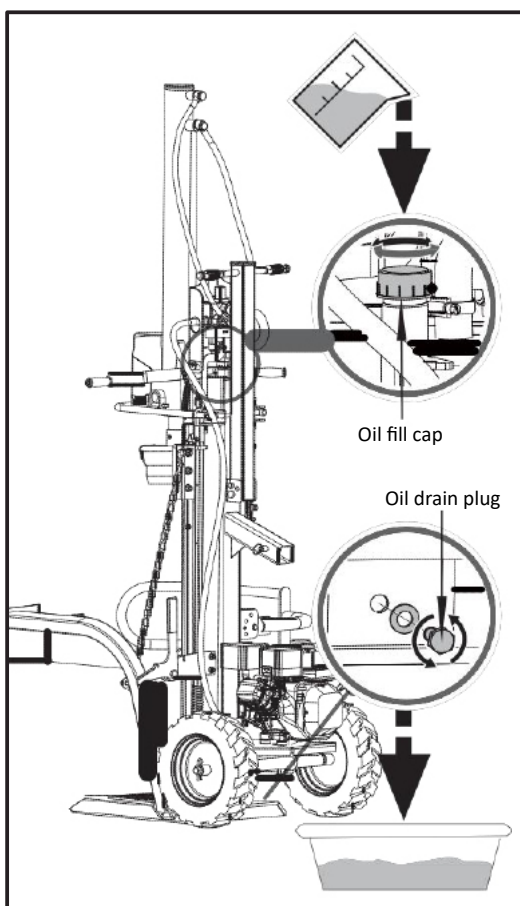
The following hydraulic oils or equivalents are recommended for the log splitter's hydraulic transmission system:

SHELL Tellus 22

MOBIL DTE 11

ARAL Vitam GF 22

BP Energol HLP-HM 22

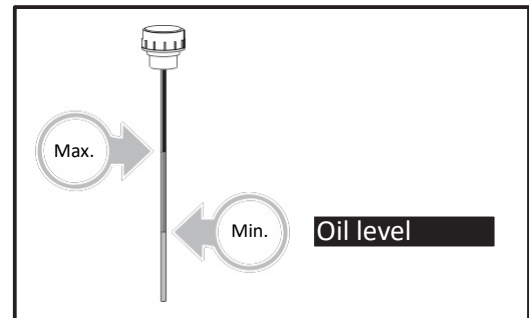


Use a drain pan to facilitate the removal of all used oil and particles.

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 THE 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.

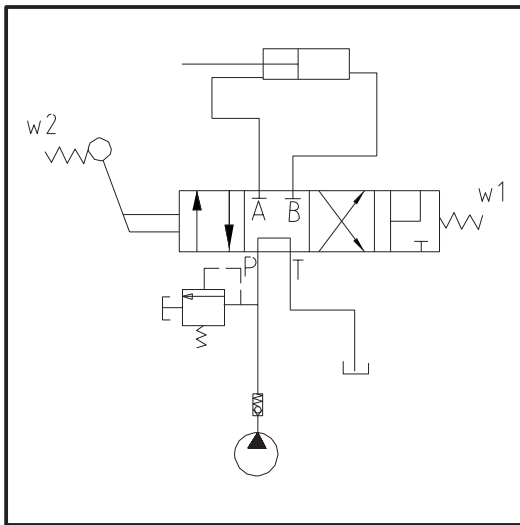
TROUBLESHOOTING

Problem	Cause	Solution
The engine does not start	The engine oil in the brake box is insufficient	Engine oil filling
	The switch is off	Turn on the switch
The log splitter does not work with the engine 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 noises	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.

HYDRAULIC SYSTEM DIAGRAM



EC DECLARATION OF CONFORMITY - HERSTELLERERKLÄRUNG - DECLARATION 'CE' DE CONFORMITE - DECLARACION DE CONFORMIDAD - DICHIARAZIONE DI CONFORMITA' EUROPEA - GELIJKVORMIGHEIDSVERKLARING - EC DEKLARATION I OVERENSSTEMMELSE - DECLARAÇÃO CE DE CONFORMIDADE - EY ILMOITUS - FORSAKRAN OM OVERENSSTAMMELSE - BEKREFTENDE EU ERKLÆRING - ΔΗΛΩΣΗ ΕΚ ΣΥΜΜΟΡΦΩΣΗΣ - EUROPEJSKA DEKLARACJA ZGODNOSCI

1) MANUFACTURER - HERSTELLER - FABRICANT - FABRICANTE - COSTRUTTORE - CONSTRUCTEUR - PRODUCENT - FABRICANTE - VALMISTAJA - TILLVERKARE - FABRIKANT - Κατασκευαστής - PRODUCENT:

Blue Bird Industries Fabbrica Motori SRL
Via Due Camini 19, 36010 Zanè (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 - MATERIELSLAG - BESKRIVELSE AV MASKINERIE - ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ - OPIS MASZYN:
SPACCALEGNA - LOGSPLITTER

a) MAKE - FABRIKAT - MARQUE - MARCA - MARCA - MERK - MÆRKE - MARCA - MERKKI - FABRIKAT - FABRIKANT - MAPKA - MARKA:

BLUE BIRD

b) TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / TYÖO / TYP:

LSL 16000
LSL 22000

c) Il prodotto è conforme alle direttive - The product complies with the directives - Das Produkt entspricht den Richtlinien - Le produit est conforme aux directives - El producto cumple con las directivas:

- 2006/42/EC - 2014/30/EU - 2000/14/EC (2005/88/EC) - 2011/65/EU - 2015/863/EU

d) REFERENCE TO STANDARDS/HARMONIZED STANDARDS - VERWEIS AUF NORMEN/HARMONISIERTE NORMEN - REFERENCE AUX NORMES/NORMES HARMONISEES - REFERENCIA A ESTANDARES/ESTANDARES ARMONIZADOS - RIFERIMENTO ALLE NORME/NORME ARMONIZZATE - REFERENTIE NAAR STANDAARDEN/GEHARMONISEERDE STANDAARDEN - REFERENCE TIL STANDARDER/HARMONISEREDE STANDARDER - REFERENCIA AS NORMAS/NORMAS HARMONIZADAS - VITTAUS STANDARDEIHIN/YHTEISIIN STANDARDEIHIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES STANDARD - ΑΝΑΡΩΠΑ ΕΕ ΕΕΟΜΕΝΑ/ENAPMONIOMENA ΕΕΟΜΕΝΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

UNI EN 12100:2010 EN 609-1:2017

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BLUE BIRD INDUSTRIES - FABBRICA MOTORI s.r.l.

ZANÈ (VI) - ITALIA

15/10/2020

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VANDA VITELLA

(GB) Technical documentation maintained by
(F) Documentation technique maintenue par
(I) Documentazione tecnica conservata da
(DK) Teknisk dokumentation tilhørdhallen av
(FI) Teknisten asiakirjojen ylläpitäjä
(NO) Teknisk dokumentasjon vedlikeholdt av

(D) Technische Dokumentation aktualisiert durch
(E) Documentacion tecnica mantenida por
(NL) Technische documentatie onderhouden door
(P) Documentação tecnica mantida por
(SE) Teknisk dokumentation tilhørdhallen av
(GR) τεχνικό φάκελο που τηρείται από

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VANDA VITELLA



BLUE BIRD INDUSTRIES Fabbrica Motori s.r.l.

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