ID: 19580

ENG

LOG SPLITTER LANCMAN
type: STAWX 13, STAWX 17, STAWX 21

V: 1.5



LANCMAN STAWX 17

USER'S MANUAL

LANCMAN® by GOMARK

GOMARK d.o.o.
Čeplje 56,
SI-3305 Vransko, Slowenien
http://www.LANCMAN.si

The user manual is the intellectual property of the company GOMARK d.o.o. Therefore any reproduction and copying of the instructions without the owner's prior knowledge is a crime.

Issued in JUNLI 2024, contains a declaration of conformity.

WARNING
THIS MACHINE CAN BE MANAGED
BY A PERSON WHO IS FAMILIAR WITH
THE USER'S MANUAL AND
SAFETY WARNINGS ONLY!

IF THE PRODUCT IS
HANDED OVER TO A THIRD PARTY, IT IS REQUIRED
THAT YOU HAND OVER THE INSTRUCTIONS
FOR THE SAFE USE, MAINTENANCE
AND PERFORMING AN INSPECTION OF THE MACHINE.

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DECLARATION OF CONFORMITY

EC DECLARATION OF CONFORMITY OF THE MACHINE NO. 01./ STAWX13-17-21

The producer GOMARK d.o.o., ČEPLJE 56, 3305 VRANSKO declares that the machine stated below has been planned and constructed in accordance with the EC directives listed in the table below. This statement does not apply to unauthorized changes to the machine.

LOG SPLITTER LANCMAN™
typ: STAWX 13, STAWX 17, STAWX 21
Serial number, year of production: on the declaration plate

The machine is made in compliance with requirements of the following regulations:

EC-DIRECTIVE	HARMONISED EUROPEAN STANDARDS
EC-MACHINE-DIRECTIVE 2006/42/EC	EN 609-1:2017– safety of the log splitters
EC-LOW-VOLTAGE-DIRECTIVE 2006/95/EC	
EC-ELECTROMAGNETIC COMPATIBILITY 2004/108/EC	

Responsible for the technical documentation: Gomark d.o.o., ČEPLJE 56, 3305 Vransko, Slovenia.

Čeplje, am 03.01.2024

Responsible person:
Matjaž GOSAK

GOMARK
trgovina in proizvodnja, d.o.o.
Čeplje 52, SI-3305 VRANSKO

WARRANTY TERMS AND CONDITIONS

The warranty applies to machines and components - if used properly (as described in the user manual) they will work flawlessly.

Warranty period:

- **for home use: 24 months,**
- **for professional use: 12 months (industry).**

The warranty covers replacement of defective parts and repair work, but excludes transport fees. Warranty applies only with a correctly completed warranty certificate and receipt of purchase.

The warranty is voided if:
- failure to comply with the user's manual,
- if it is found that a pre-repair was carried out by an unauthorized person,
- if non-original spare parts were built in,
- if the product was used in an negligent manner,
- due to failures, made by mechanical blows caused by the buyer or a third person.

The warranty does not apply for expendable materials, stated in the instructions.

The warranty does not apply in the case of failure to comply with the user's manual which is an integral part of the machine. Warranty also does not apply in case of unauthorized repairs to the machine and changes of the machine.

Warranty repairs are carried out by the authorized service stated by your dealer or dealer who sold you the machine.

PRODUCER-DECLARATION with technical details

Producer:	GOMARK d.o.o., Čeplje 56, 3305 Vransko, Slovenia
Trailer type:	Trailer with Log splitter
Brand and type:	LANCMAN STAWX ____
Serial number:	LNCM _____.
Trailer No.:	LNCMNT _____
Length:	3.220 mm
Width:	1.541 mm
Height:	1.490 mm
Axle no.:	1

WE GRANT FOR TECHNICAL DETAILS AS FOLLOWS:

Max. allowed weight:	*750 kg*
Own weight:	*580 kg*
Axle producer:	*AL-KO Kober GmbH*
Axle type:	*700-5*
Maximum load per axle:	*750 kg/80 km/h*
Tire dimension:	*155 R 13 C 84 N*
Each tire max load speed:	*100 km/h, 480 kg*
Tires type:	*BK403/SECURITY*
Tires certificate number:	*30R-0237610*
Rim type:	*4J×13H2 ET 30*
Coupling head producer:	*AL-KO Kober GmbH*
Type:	*AK-7*
Dynamic load:	*7.19 Kn*
Coupling certificate number:	*e1*94/20*2006/96*0232*04*
Drawbar:	*AL-KO Kober GmbH*
Type:	*VKT R4/A1*
Dynamic load:	*9,6 Kn*
Dynamic load:	*75 kg*
Drawbar certificate number:	*E1 55R 01 0388*
Lighting type:	*FT-88/FRISTOM*
Lighting certificate number:	*F-E9-00.1547*

Trailer description:
Trailer is made from iron construction, which is attached to the axle with drawbar. Trailer has mudguards and rear lighting. On the main frame is attached log splitter.

Herewith we, GOMARK d.o.o., ČEPLJE 56, 3305 Vransko, Slovenia declare with full responsibility, that the machine mentioned upper is produced in accordance with the European regulations.

ČEPLJE, 13.7.2017

Matjaž GOSAK, manager
GOMARK d.o.o

GOMARK
trgovina in proizvodnja, d.o.o.
Čeplje 52, SI-3305 VRANSKO

1. TO THE BUYER - USER

Dear buyer,
We thank you for the confidence you have shown us by buying our product. We are confident that you will be satisfied with it. Before you first use the machine carefully read and learn the instructions on the safe use and maintenance, description of the intended function, functionality and working environment of the machine. The instructions are designed to introduce all the required activities prior to the first use of the machine, maintenance and carrying out regular inspections.
In the event that you hand over the product to a third party, you also must hand over the instructions for safe use, maintenance and performance of regular inspections.
When reading the instructions, please pay special attention to the chapters and paragraphs, marked with the following symbol.



This symbol especially emphasizes the importance of that text in the specific chapter of the instructions.

We reserve the right to design changes and make technical improvements.
Any partial or total reproduction of these instructions, text or images is a criminal act.

2. INTENDED USE

The machine LOG SPLITTER LANCMAN is intended for splitting logs of various lengths and thicknesses. The blade is hydraulically operated. The hydraulic system can be driven by a tractor PTO shaft or by primary tractor hydraulics.
The log splitter has a two-handle safety switch. Simultaneously pressing both the levers makes blade move down. When the levers are released, the blade stops and pushing the levers up returns the blade to its original position. The splitter stands on two legs on a three-point system on the lower plate under the blade. During the operation the blade moves down towards the log and splits it.

 Any deviation from the prescribed use is considered ineligible, and the manufacturer is not liable for security and functionality.

 Any remodelling and replacement of the original components of the log splitter eliminates the warranty of the manufacturer for safety and functionality of the machine.

The machine may be used, handled and repaired only by adults (at least 18 years old), familiar with the instructions.

3. SERVICING AND ORDERING OF SPARE PARTS

Servicing and elimination of defects within the warranty period and afterwards will be performed by:
THE DILLER OR AUTHORIZED SERVICE.

When problems to find authorized service, please turn into the producer:

GOMARK, trgovina in proizvodnja d.o.o.
Čeplje 56, SI-3305 Vransko, Slovenia
Phone: +386 3700 15 03

When ordering spare parts always indicate the following data:
- name of the machine,
indication of the machine-type,
serial number of the machine,
year of manufacture of the machine.

All information for the ordering of the spare parts are written on the plate or. permanent label on the machine.

4. TECHNICAL DATA AND DESCRIPTION OF THE MACHINE

The splitter is designed to facilitate the splitting of logs by using tractor power – charging is transferred via the PTO shaft of the tractor to the splitter. The pump of the splitter drives the oil, directed by a regulator. The regulator then leads via the on/off power system the hydraulics of the cylinder, which presses with its power the blade that splits logs.

4.1 Technical information LANCMAN STAWX 13

TYP	STAWX 13 BRIGGS/ HONDA	STAWX 13 EL 400V	STAWX 13 BRIGGS+EL/ HONDA+EL
POWER OF THE LOG SPLITTER	127,6 Kn		
DIMENSIONS (HxWxL) – when folded up	1.800×1.540×3.300		
DIMENSIONS (HxWxL) – in the operating position	2.850×1.540×3.300		
WEIGHT	570 kg	570 kg	580 kg
POWER SUPPLY	BRIGGS & STRATTON, VANGUARD 10 PS/ HONDA GX 390	ELECTRIC MOTOR 5.5 kW/400V	BRIGGS & STRATTON, VANGUARD 10 PS + ELECTRIC MOTOR 5.5 kW/400V HONDA GX 390
NOMINAL POWER	B&S 7,45 Kw/ HONDA 10 kW	5.5 kW	B&S 7.45 kW/5.5 kW HONDA 10 kW/5.5 kW
ENGINE SIZE	B&S 305 ccm/ HONDA 390 ccm	-	B&S 305 ccm/ HONDA 390 ccm
MAX. ENGINE/MOTOR RPM	3600	1440	3600/1440
ELECTRIC SUPPLY	-	5.5 Kw/400 V	5.5 Kw/400 V
ELECTRIC PLUG	-	400 V, 5 POLES, 16 A	400 V, 5 POLES, 16 A
GASOLINE / TANK SIZE	BENZIN 95 Octan (Euro Super) / 4,2 L	-	BENZIN 95 Octan (Euro Super) / 4,2 L
ENGINE IOL /QUANTITY	SAE 5W30 / 0,4 L	-	SAE 5W30 / 0,4 L
MAX. TRAILER SPEED	80 km/h		
MAX TRAILER COUPLING LOAD	75 kg		
TYRE DIMENSIONS	155 R 13 C84 N		
MAX TYRE PRESSURE/ MAX TORQUE FOR TIGHTENING	3.4 BAR / 90 Nm		
WEDGE STROKE	118 cm		
SPLITTING SPEED 1 (cm/s)	4.5 cm/s	8.4 cm/s	4.5 cm/s/8.4 cm/s
SPLITTING SPEED 2 (cm/s)	37.9 cm/s	20.2 cm/s	37.9 cm/s/20.2cm/s
SPLITTING SPEED R (cm/s)	27.3 cm/s	14.5 cm/s	27.3 cm/s/14.5 cm/s
MAX. ALLOWED PRESSURE	250 bar		
ADJUSTED PRESSURE	230 bar		
MAX. SPLITTING LENGTH	MINIMUM 75 cm and MAXIMUM 117 cm		
MAX. LOG DIAMETER	70 cm		
MIN. LOG DIAMETER	8 cm		
HYDRAULIC OIL	26 l / HVLP 32, DIN 51524/3		
LOG LIFTER	MECHANICAL		
WORKING VIBRATIONS	NONE		
NOISE	DOES NOT REACH OVER 85 dB		

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.2 Technical information LANCMAN STAWX 17

TYP	STAWX 17 BRIGGS/ HONDA	STAWX 17 EL 400V	STAWX 17 BRIGGS+EL/ HONDA+EL
POWER OF THE LOG SPLITTER	166,50 Kn		
DIMENSIONS (HxWxL) – when folded up	1.800×1.540×3.300		
DIMENSIONS (HxWxL) – in the operating position	2.850×1.540×3.300		
WEIGHT	580 kg	580 kg	610 kg
POWER SUPPLY	BRIGGS & STRATTON, VANGUARD 10 PS/ HONDA GX 390	ELECTRIC MOTOR 5.5 kW/400V	BRIGGS & STRATTON, VANGUARD 10 PS + ELECTRIC MOTOR 5.5 kW/400V HONDA GX 390
NOMINAL POWER	B&S 7,45 Kw/ HONDA 10 kW	5.5 kW	B&S 7.45 kW/5.5 kW HONDA 10 kW/5.5 kW
ENGINE SIZE	B&S 305 ccm/ HONDA 390 ccm	-	B&S 305 ccm/ HONDA 390 ccm
MAX. ENGINE/MOTOR RPM	3600	1440	3600/1440
ELECTRIC SUPPLY	-	5.5 Kw/400 V	5.5 Kw/400 V
ELECTRIC PLUG	-	400 V, 5 POLES, 16 A	400 V, 5 POLES, 16 A
GASOLINE / TANK SIZE	BENZIN 95 Octan (Euro Super) / 4,2 L	-	BENZIN 95 Octan (Euro Super) / 4,2 L
ENGINE IOL /QUANTITY	SAE 5W30 / 0,4 L	-	SAE 5W30 / 0,4 L
MAX. TRAILER SPEED	80 km/h		
MAX TRAILER COUPLING LOAD	75 kg		
TYRE DIMENSIONS	155 R 13 C84 N		
MAX TYRE PRESSURE/ MAX TORQUE FOR TIGHTENING	3.4 BAR / 90 Nm		
WEDGE STROKE	110 cm		
SPLITTING SPEED 1 (cm/s)	3.6 cm/s	3.4 cm/s	3.6 cm/s/3.4 cm/s
SPLITTING SPEED 2 (cm/s)	31.8 cm/s	23.8 cm/s	31.8 cm/s/23.8 cm/s
SPLITTING SPEED R (cm/s)	21.1 cm/s	15.8 cm/s	21.1 cm/s/15.8 cm/s
MAX. ALLOWED PRESSURE	250 bar		
ADJUSTED PRESSURE	240 bar		
MAX. SPLITTING LENGTH	MINIMUM 75 cm and MAXIMUM 117 cm		
MAX. LOG DIAMETER	70 cm		
MIN. LOG DIAMETER	8 cm		
HYDRAULIC OIL	26 l / HVLP 32, DIN 51524/3		
LOG LIFTER	MECHANICAL		
WORKING VIBRATIONS	NONE		
NOISE	DOES NOT REACH OVER 85 Db		

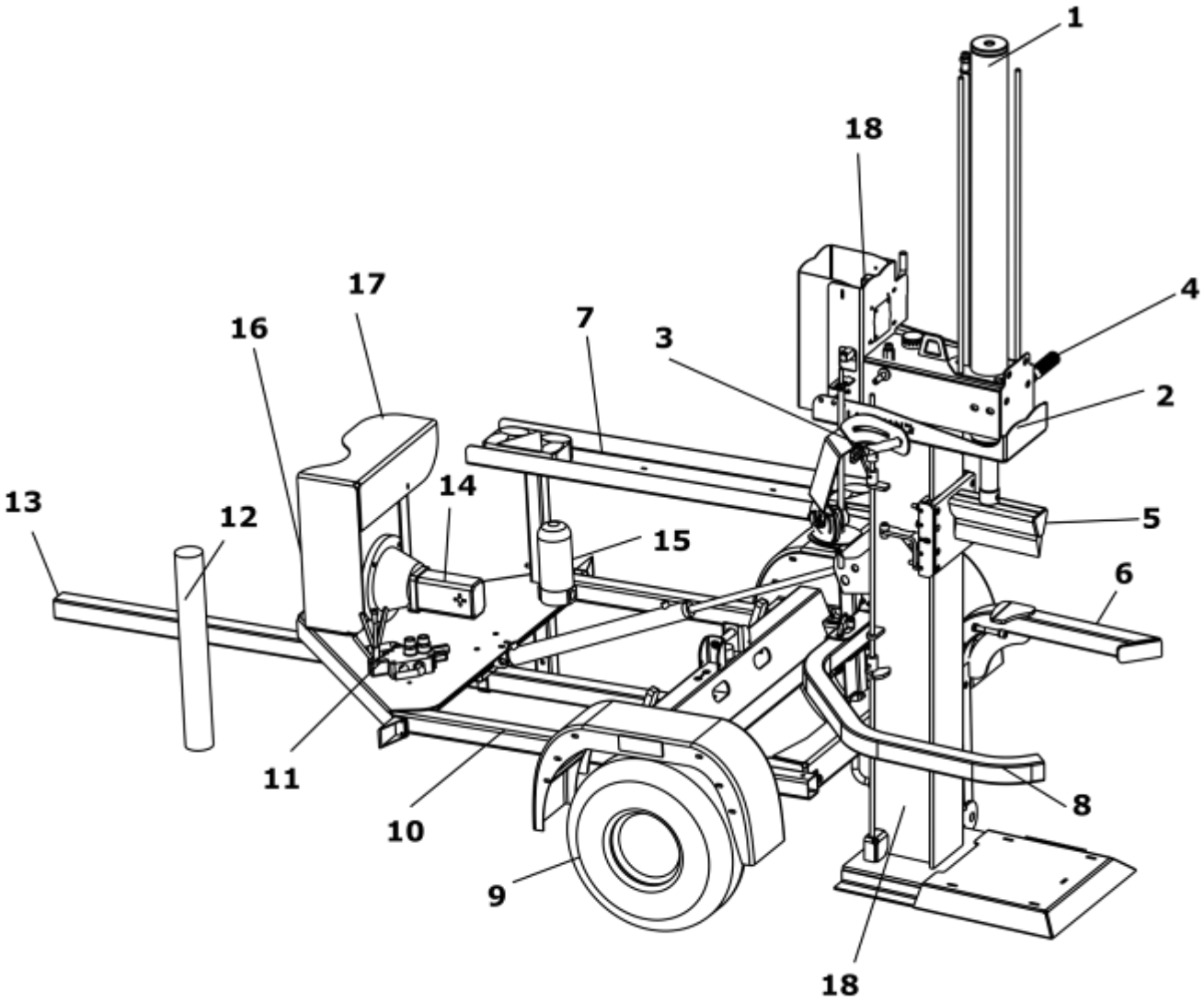
WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.3 Technical information LANCMAN STAWX 21

TYP	STAWX 21 BRIGGS	STAWX 21 EL 400V	STAWX 21 BRIGGS+EL
POWER OF THE LOG SPLITTER	206,85 Kn		
DIMENSIONS (HxWxL) – when folded up	1.800×1.540×3.300		
DIMENSIONS (HxWxL) – in the operating position	2.850×1.540×3.300		
WEIGHT	640 kg	640 kg	670 kg
POWER SUPPLY	BRIGGS & STRATTON, VANGUARD 10 PS/ HONDA GX 390	ELECTRIC MOTOR 5.5 kW/400V	BRIGGS & STRATTON, VANGUARD 10 PS + ELECTRIC MOTOR 5.5 kW/400V HONDA GX 390
NOMINAL POWER	B&S 7,45 Kw/ HONDA 10 kW	5.5 kW	B&S 7.45 kW/5.5 kW HONDA 10 kW/5.5 kW
ENGINE SIZE	B&S 305 ccm/ HONDA 390 ccm	-	B&S 305 ccm/ HONDA 390 ccm
MAX. ENGINE/MOTOR RPM	3600	1440	3600/1440
ELECTRIC SUPPLY	-	5.5 Kw/400 V	5.5 Kw/400 V
ELECTRIC PLUG	-	400 V, 5 POLES, 16 A	400 V, 5 POLES, 16 A
GASOLINE / TANK SIZE	BENZIN 95 Octan (Euro Super) / 4,2 L	-	BENZIN 95 Octan (Euro Super) / 4,2 L
ENGINE IOL /QUANTITY	SAE 5W30 / 0,4 L	-	SAE 5W30 / 0,4 L
MAX. TRAILER SPEED	80 km/h		
MAX TRAILER COUPLING LOAD	75 kg		
TYRE DIMENSIONS	155 R 13 C84 N		
MAX TYRE PRESSURE/ MAX TORQUE FOR TIGHTENING	3.4 BAR / 90 Nm		
WEDGE STROKE	118 cm		
SPLITTING SPEED 1 (cm/s)	2.9 cm/s	2.7 cm/s	2.9 cm/s/2.7 cm/s
SPLITTING SPEED 2 (cm/s)	20.3 cm/s	15.7 cm/s	20.3 cm/s/15.7 cm/s
SPLITTING SPEED R (cm/s)	21.2 cm/s	16.9 cm/s	21.2 cm/s/16.9 cm/s
MAX. ALLOWED PRESSURE	250 bar		
ADJUSTED PRESSURE	243 bar		
MAX. SPLITTING LENGTH	MINIMUM 75 cm and MAXIMUM 117 cm		
MAX. LOG DIAMETER	80 cm		
MIN. LOG DIAMETER	8 cm		
HYDRAULIC OIL	29 l / HVLP 32, DIN 51524/3		
LOG LIFTER	MECHANICAL		
WORKING VIBRATIONS	NONE		
NOISE	DOES NOT REACH OVER 85 Db		

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.4 Description of the machine



1. HYDRAULIC CYILINDER
2. SAFETY BAR
3. ACTIVATION LEVER LOVER – LEFT
4. ACTIVATION LEVER UPPER - RIGHT
5. SPLITTING WEDGE
6. LIFTING ARM
7. LIGT BAR
8. SIDE ARM
9. TYRE
10. TRAILER FRAME
11. DIRECTIONAL CONTROL VALVE FOR SPLITTER POSITIONING
12. SUPPORT WHEEL
13. COUPLING
14. GEAR PUMP
15. SUCTION FILTER
16. GASOLINE ENGINE
17. ENGINE COVER
18. LOG SPLITTER FRAME

5. MARKING AND IDENTIFICATION

5.1 Safety warnings and declaration placed on the splitter

DECLARATION ON THE SPLITTER

Data on the declaration:
- name of the machine,
- type,
- power,
- max. pressure,
- weight of the machine,
- year of manufacture,
- manufacturer,
- bar code.

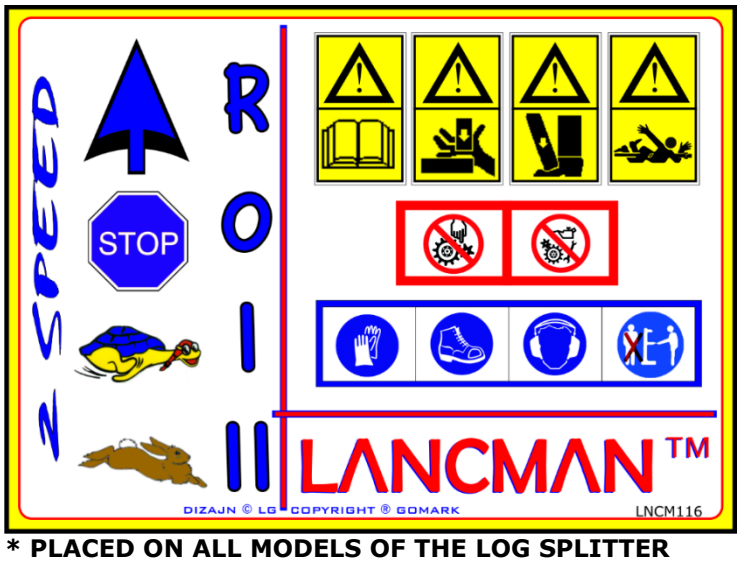


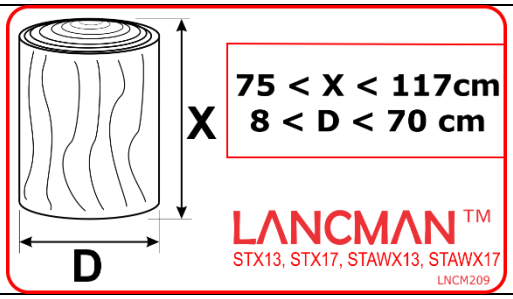
Trailer declaration:
- type,
- weight,
- Ser.no.,
- Year of production:
- Max axis load,
- producer.



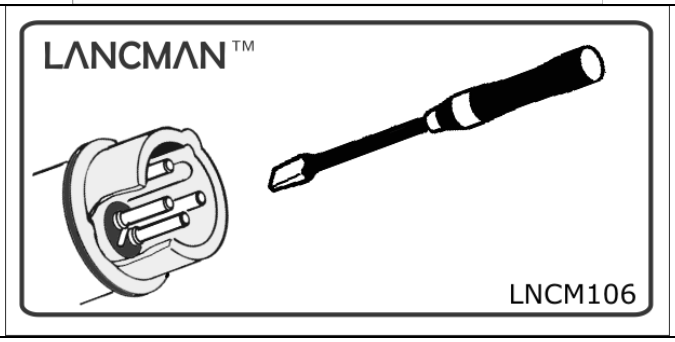
5.2 Warning signs

Warning signs, placed on the splitter, are warning the workers of the dangers which may occur when using the splitter (each pictogram is placed once only).

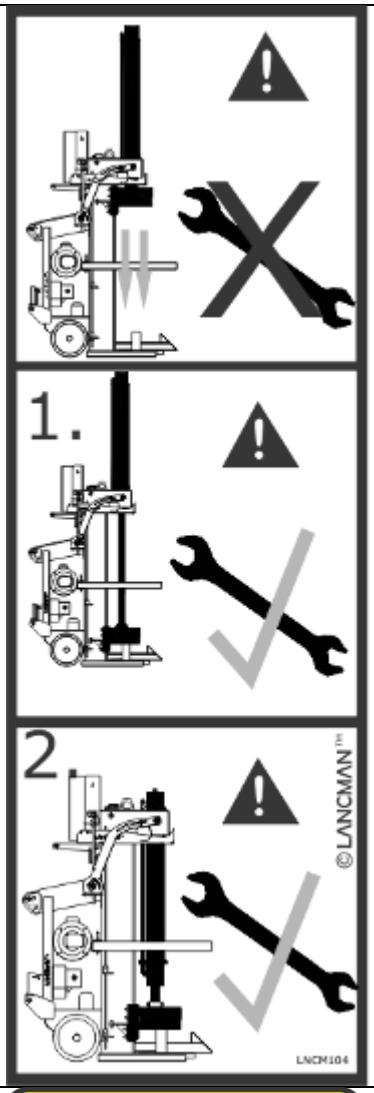
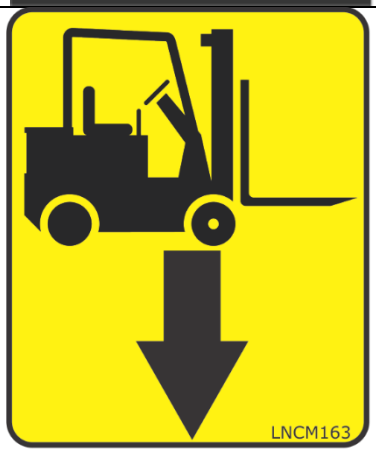
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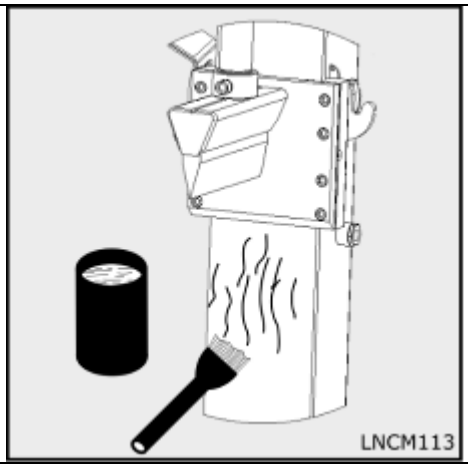
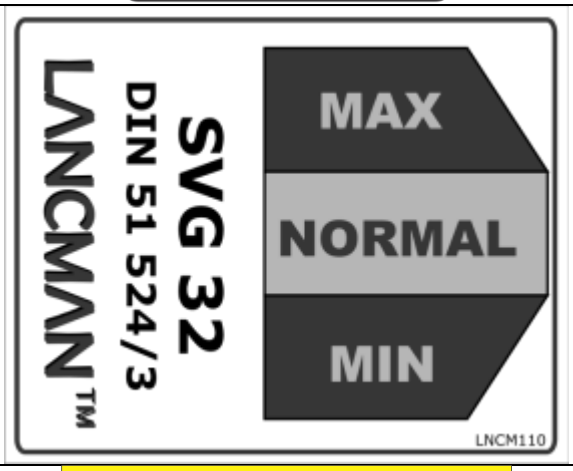
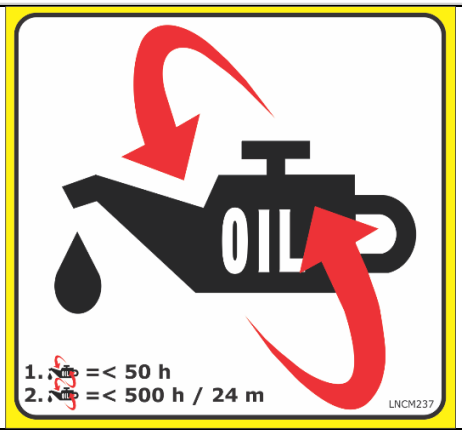
* PLACED ON ALL MODELS OF THE LOG SPLITTER</td><td>1</td><td>Please carefully read the user’s manual before using the log splitter.</td></tr>
<tr><td>2</td><td>Risk of injury – squeezing of the arms.</td></tr>
<tr><td>3</td><td>Risk of injury - squeezing of the legs.</td></tr>
<tr><td>4</td><td>Danger in the vicinity of the PTO axle.</td></tr>
<tr><td>5</td><td>Do not remove the safety parts from the splitter while operating.</td></tr>
<tr><td>6</td><td>Do not repair, clean, adjust or oil the moving parts of the splitter.</td></tr>
<tr><td>7</td><td>Obligatory use of protective gloves.</td></tr>
<tr><td>8</td><td>Obligatory use of safety shoes.</td></tr>
<tr><td>9</td><td>Obligatory hearing protection.</td></tr>
<tr><td>10</td><td>For the operation of one person only.</td></tr>
<tr><td>LNCM2__</td><td colspan="2">
</td><td>X-MAXIMUM AND MINIMUM LENGTH OF WOOD

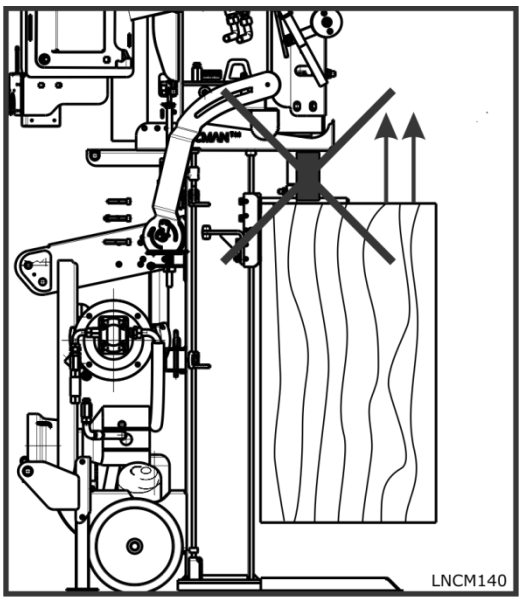
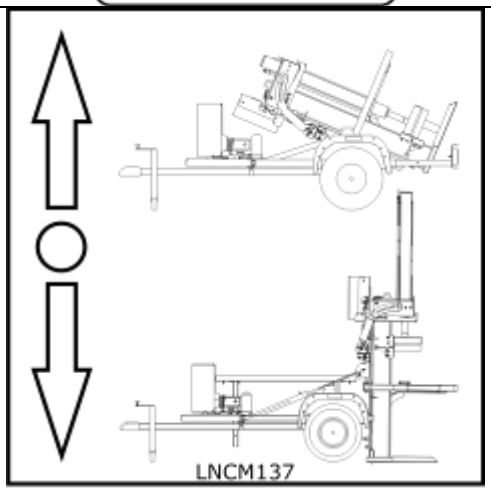
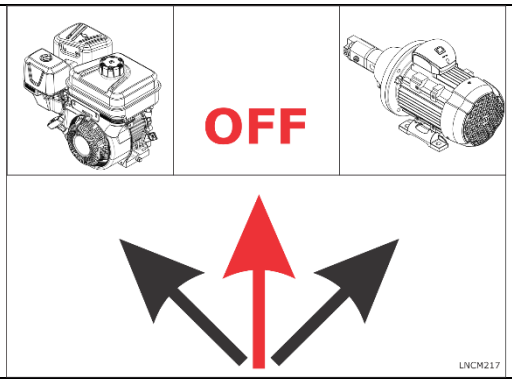
D-MINIMUM AND MAXIMUM DIAMETER OF WOOD</td></tr>
<tr><td>LNCM109</td><td colspan="2">
</td><td>THE RIGHT ROTATION DIRECTION OF THE MOTOR ON THE LOG SPLITTER.

* PLACED ON THE LOG SPLITTER WITH ELECTROMOTOR ONLY!</td></tr>
<tr><td>LNCM106</td><td colspan="2">
</td><td>SETTING THE ROTATION DIRECTION OF THE MOTOR ON THE LOG SPLITTER.

* PLACED ON THE LOG SPLITTER WITH ELECTROMOTOR ONLY!</td></tr>
</table>

LNCM104		**IT IS NOT ALLOWED TO UNSCREW THE BOLTS THAT HOLD THE CYLINDER, WHEN THE SPLITTING BLADE AND CYLINDER ARE IN THE UPPER POSITION!** **1. FIRST YOU SHOULD LOWER THE SPLITTING BLADE TO THE LOWEST POSITION AND UNSCREW THE BOLTS.** **2. WHEN THE BOLTS ARE LOOSENED YOU CAN LOWER THE CYLINDER INTO THE TRANSPORT POSITION.**
LNCM163		**THE LABEL SHOWS THE PLACE THE MACHINE CAN BE RAISED WITH THE FORKLIFT**

LNCM113		**THERE MUST ALWAYS BE GREASE ON THE SLIDING SURFACE! DO NOT USE OILS BUT GREASE ONLY.**
LNCM167		**LUBRICATION PLACES - LUBRICATION CONNECTIONS!**
LNCM110		**THE OIL LEVEL IN THE LOG SPLITTER SHOULD BE ALWAYS BETWEEN THE MIN AND MAX MARK!**
LNCM237		**OIL CHANGE.**

LNCM140		**IN THE EVENT THAT THE LOG JAMMED, THE USE OF LEVER FOR REMOVING OF THE LOG FROM THE BLADE IS NOT ALLOWED (THE CYLINDER MAY GET UNHOOKED AND INJURE THE USER)!!!**
LNCM142		**NOISE LEVEL!**
LNCM137		**TO PUT LOG SPLITTER IN THE TRANSPORT POSITION!** **TO PUT LOG SPLITTER IN THE WORKING POSITION!**
LNCM217		**SWITCHING BETWEEN DRIVES**

6. SAFETY

	Before the first use read the technical data and the user's manual.
	The person using the machine is responsible for the area around the machine and must ensure that other people are not in the working area of the machine in order to avoid possible injuries.
	The splitter may be used only by the person qualified for this work and who is aware of the danger and is familiar with the user's manual for the splitter.
	The splitter may be used only if it is safely in place.
	The minimum age of the machine user: 18 years.
	When operating the machine always wear appropriate shoes and tight clothes.
	The working environment should be light. Working in a dark space may result in injuries.
	The splitter may be used only by one person at a time.
	When splitting do not hold the log with your hands.
	Do not reach into the work zone of the blade and do not keep your hands under the blade.
	Never split the diagonally cut logs.
	Regularly remove chips and debris from the work zone.
	Never leave your splitter unattended while the engine is running.
	In the event of the stuck log, lift the blade in the upper position or to the max possible level in the given situation. Shut off the drive of the engine (electricity, PTO shaft). Use the tools (wedges, hammer) may be helpful.
	When inspecting or repairing the splitter, turn off the engine.
	The maximum length of the splitted log depends on the model (see: technical data).
	Never start working without protective equipment.
	Turn off the splitter before you change the settings.
	Before the use always make sure that the machine is in good technical condition. Never use the machine if the machine parts are damaged or the screws are not tightly screwed down. Before use screw down the screws and replace the damaged parts. Use the manufacturer's specified parts only.
	When transporting or shutting of the engine, the blade and the cylinder should be in a folded up (transport) position.
	Keep your work zone clean at all times. Any obstacles which could cause danger should be removed before using the machine.
	The splitter meets the electrical safety standards. Any intervention, change or update damages the required safety standards and warranty.
	The engine and electrical parts are protected by IP 54.
	If using an extension cord, make sure that: - it suits the laws and the power and is in a good condition, - it has a relevant wire diameter for the prescribed current for the engine.
	A too thin cable may cause a surging voltage, causing the power to shut off (the switch turns the engine automatically off) and/or engine overheating.
	Check regularly if all safety instruments work correctly.
	When operating the splitter use both hands to avoid risk of injury.
	In case the power turns off, the blade stops automatically. A magnetic switch prevents an automatic turning on of the machine when the machine is again connected to the power. The machine is re-activated by a press on the switch.

7. PREPARATION OF THE SPLITTER FOR OPERATION

Prior to the sale the splitter is inspected at the factory and tested to the maximum pressure, thus preparing it for operation.

Before the first operation check:
1. If the splitter is intact (possible transport damage).
2. The hydraulic hoses and cylinder of the splitter because of possible transport damage.

In the event of damage to the machine immediately contact the dealer or manufacturer's service department.

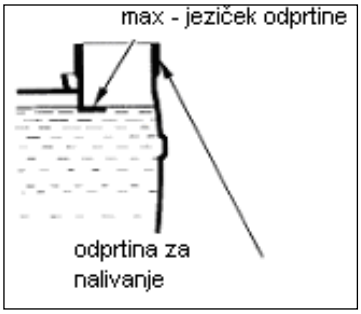
Place the splitter on the flat ground with a 3 m radius of empty space so that all operations can be done in complete safety.

Make sure the room is high enough for the blade to reach the max upper position (see technical data on the height).

7.1 USING THE RIGHT FUEL

The motor runs on petrol, with at least 95 octanes. This motor is 4-tact so do not use other mixtures. Use only fresh and clean petrol. Clean petrol leaves less trash on the cylinder of the motor and it is extending the lifetime of the motor.

Warning : We do not recommend using alcohol based fuels such as GASOHOl. If the fuel contains alcohol, there must not be more than 10% of ethanol in it. and it should not be in the fuel tank when storing the machine. Do not use methanol based fuels.



Never fill the fuel tank to the top. Fill it to the »max« mark as shown on the picture, because fuel needs space to expansion.

Store fuel in proper gas tank. When filling the fuel do not smoke. Always fill the full outside (never inside in closed places). Always fill the fuel before starting the engine. Never remove the lid of the tank while the engine is working or is still hot. In case of spilling the gas on the engine clean it before starting. Spilled fuel can cause a fire.

7.2 ENGINE STARTING

	Maximum lean on which the motor still works is 20º.
	Motor should never work in a closed or poorly aired room. Exhaust gases contain carbon monoxide, gas without smell wich is deadly dangerous.
	Move away arms, hair and loose clothes from the moving parts of the engine or the machine.
	Warning! The temperature of the exhaust hose and its soraundings can heat over 65º C.

Before starting make sure that there is enough oil. Aswell check and tight all the bolts on the machine. Place the handle of the machine in position that fits you. At the new machine the motor and the housing of the drive are filled with oil.

The machine has a built in clutch (red colour) on the upper side of the handles lever, that in case of a drop turns off the machine. For the machine to work the squeeze of the clutch is needed. Stand in front of the machines handle.

If the motor or the air is hot do not start the engine in CHOKE position, because you will not be able to start the engine.

When the engine heats up, pull the gas lever in to work position (bettween 0 and CHOKE).

8. WORKING WITH THE LOG SPLITTER

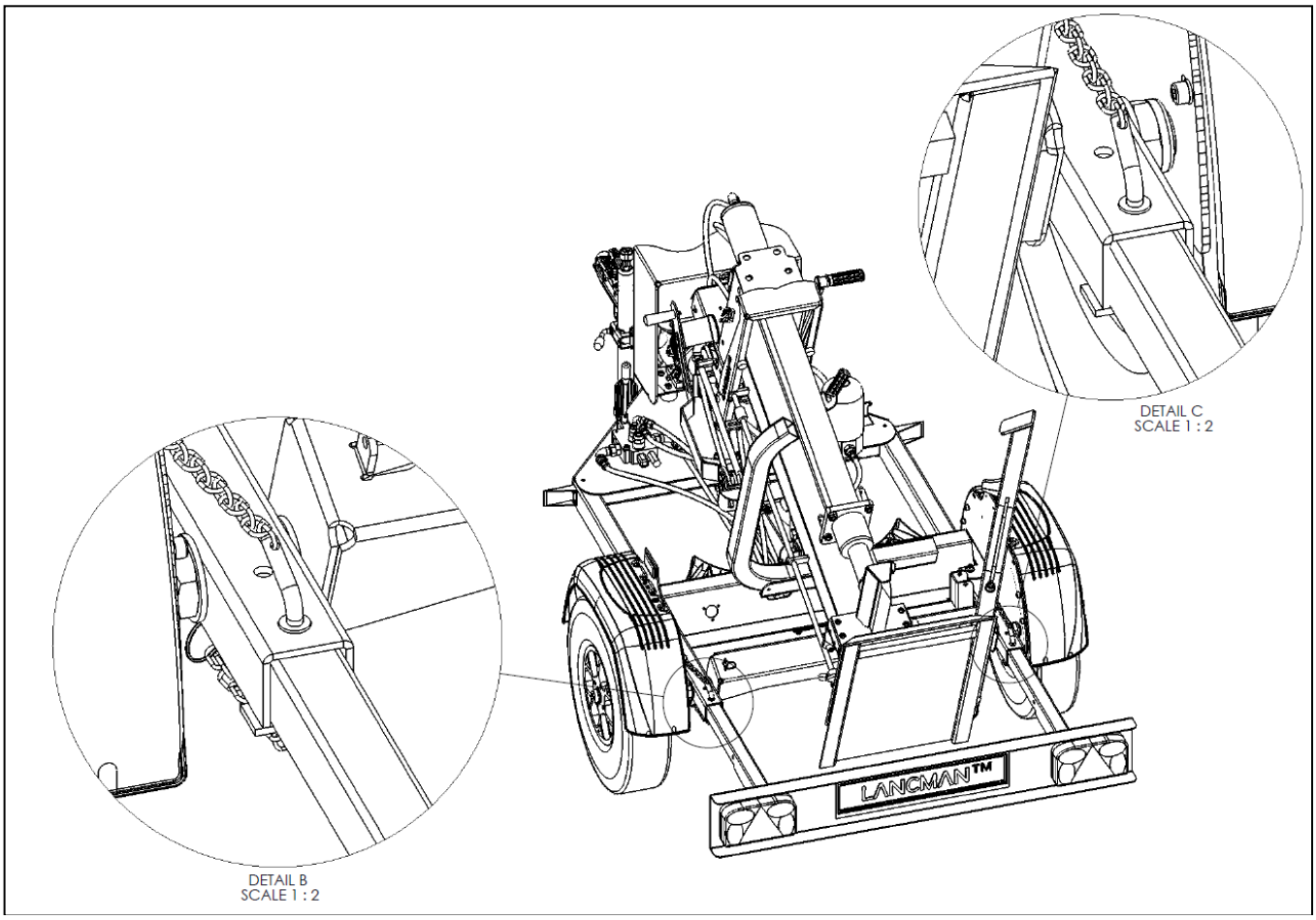
8.1 How to place the splitter

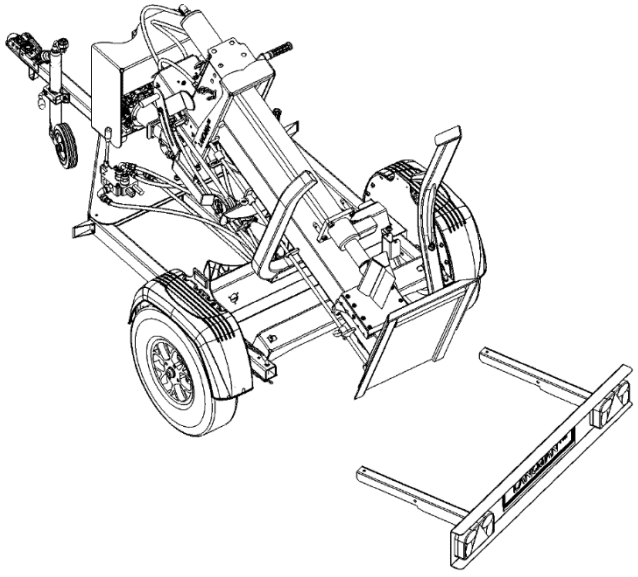
Place the splitter on even and solid ground.

 **The splitter may be used only if it is safely in place.**

Place the splitter directly on the ground. The ground should not be levelled by a board, metal etc.

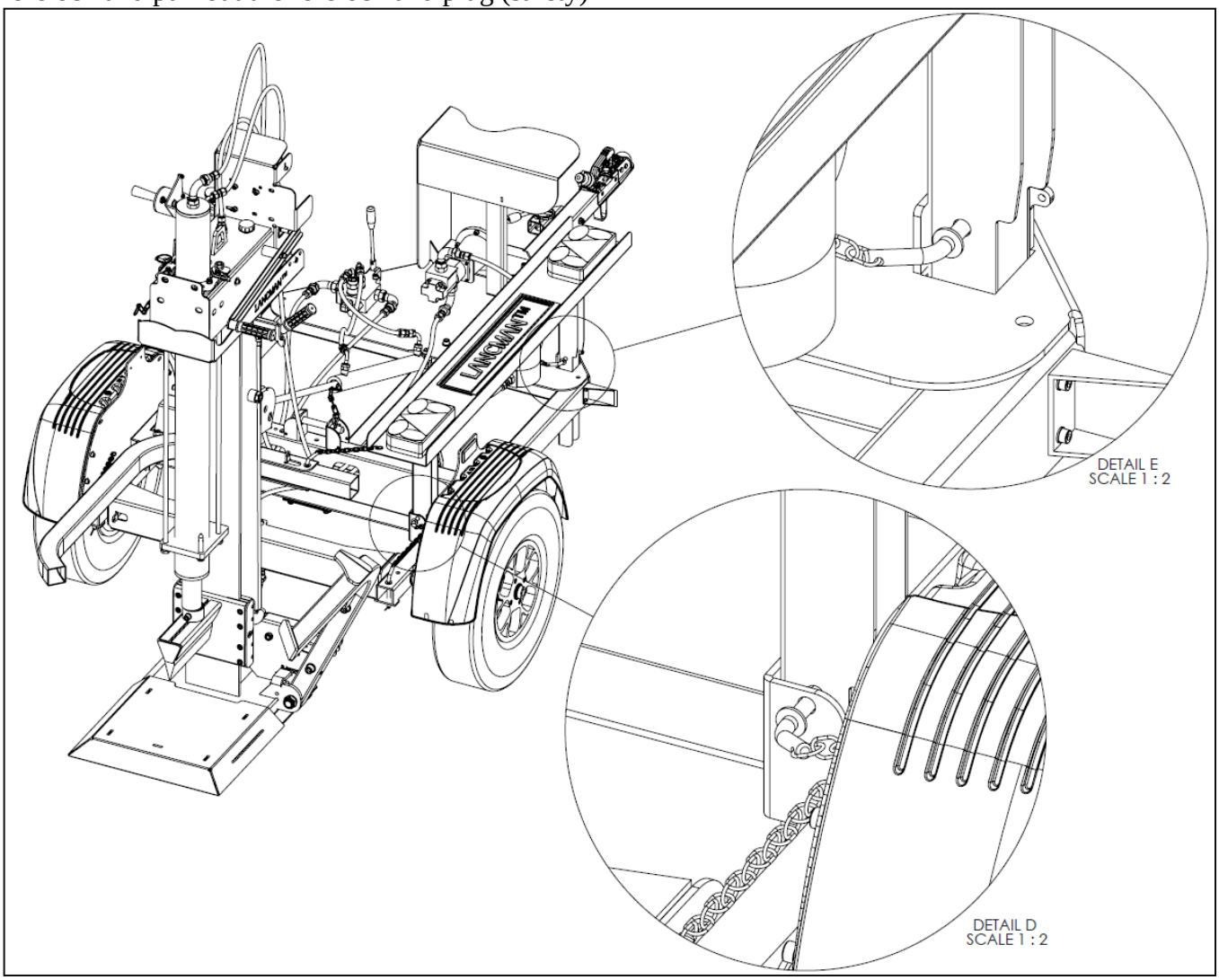
8.2 How to prepare the splitter for a working position





Pull out the forelock and the plug on both sides of the lights supporter and pull the light supporter out of the clue.

The light supporter place on the right side of the trailer in the supporters fort hem. Insert the safety plug and forelock and pull out the forelock and plug (safety)



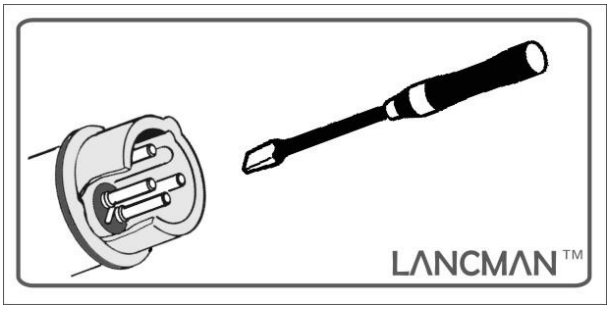
8.3 Power driven log splitter

Before you plug in the splitter, please check if the power and voltage are proper. Carefully read the plate on the electromotor and on the splitter. The line voltage must be at 400 V/50 Hz or 230V 50 Hz (depends on the model).

The log splitter is equipped with a heat relay which stops the engine if overheated.
Power cables and extended electric conductors must contain 5 wires (3P+N+Z) or 3 wires (1P+N+Z), depending on the model. For the power of the attachment see the table with the technical data.

In order to prevent overheating of the engine, use a right electric conductor (min. thickness 2.5 mm (0.098 inch)/max. length 15 m (49.2 feet). Do not use a rolled cable.

Make sure that the power is grounded and that the splitter is connected to a voltage with a differential switch.



Check the direction of the engine rotation!

When checking the direction of engine rotation, let the engine run for the shortest time possible to prevent possible damage to the pump.

There is a label on the engine showing the direction of engine rotation. In case the direction of rotation is incorrect, turn off the power and change the phase of the current using a phase inverter – a screw in the socket switch (model 400 V only).



This operation must be carried out carefully and by an informed person only.

When the splitter is connected to power press the green button on the splitter (1).



In order to shut down the engine press the red button on the switch (0) and stop the operation of the splitter.

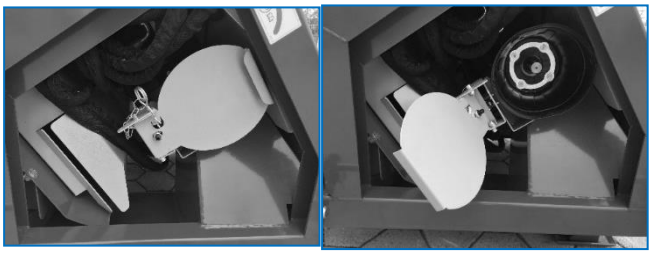
Do not shut down the engine when under pressure.

Do not press the blade hard upon a log which will not split. Increased pressure may cause the hydraulics and engine to overheat.

8.4 Power- and PTO shaft-driven log splitter

Check the two preceding chapters.
In a combination drive design, it must be taken into consideration that one drive and the other drive are moved at the same time. This means that if the electric drive wants to be used, the PTO must be removed and the safety lid on the PTO closed and secured. The cover at the PTO shaft is secured by a push button and if the cover is not locked, the electric drive can not be switched on.

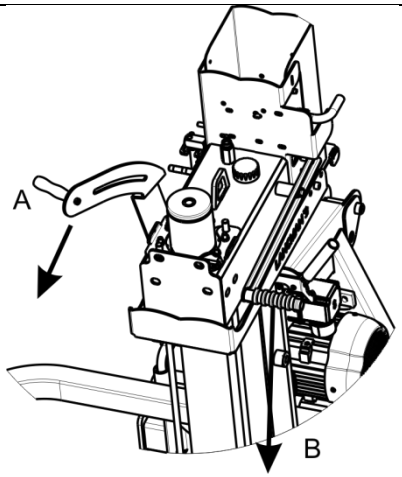
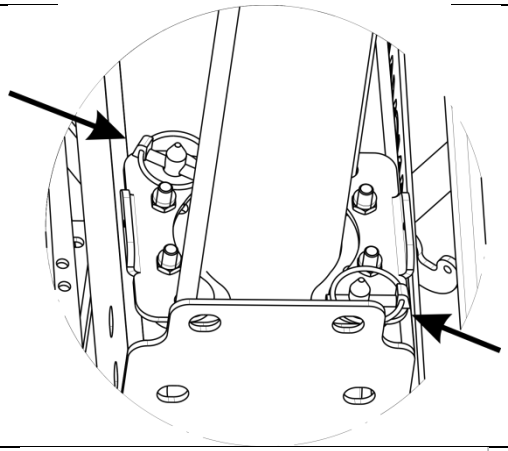
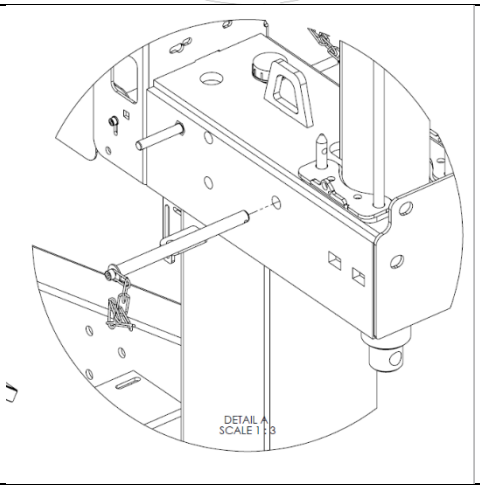
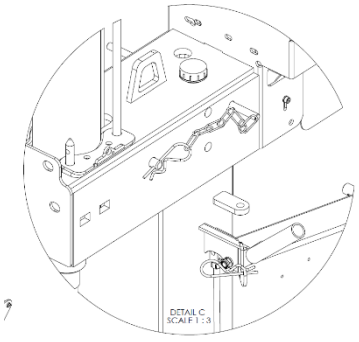
NEVER USE BOTH DRIVES (POWER AND PTO SHAFT) AT THE SAME TIME!



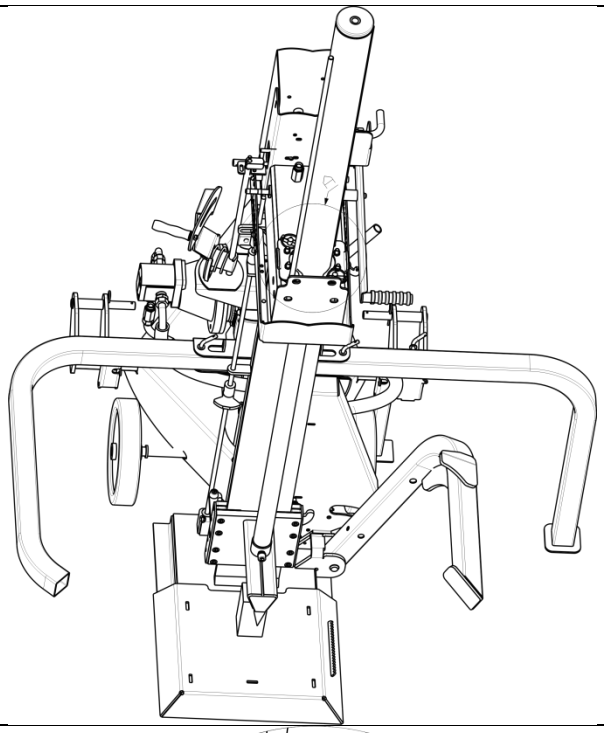
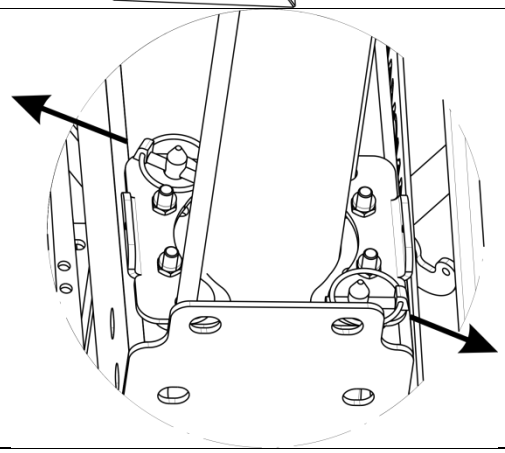
8.5 How to prepare the splitter for a working position

The splitter is supplied with a lowered cylinder.

First you must set the cylinder to the initial position and then you may start splitting.
When the log splitter is in folded up position, put a suitable pad (for example wooden) under the blade of the log splitter, in the size of 15 cm. Make sure that the bottom activation lever does not lean on the security shutdown switch that prevents the log splitter from activating.

	FIRST, PUSH DOWN THE (A) LEFT LEVER (AND HOLD IT), THEN ALSO THE RIGHT (B) AND HOLD IT UNTIL THE CYLINDER MOVES TO THE UPPER POSITION. WHEN THE CYLINDER REACHES THE UPPER POSITION, RELEASE BOTH LEVERS.
	PUT IN THE SAFTY PARTS PUSH THE LEVER B UP IN ORDER TO MOVE THE BLADE TO THE UPPER POSITION. YOU MAY START SPLITTING.
	SAFETY LOCK. CYLINDER MUST BE PROTECTED WITH FIX BOLT AS SHOWN ON THE PICTURE. 

8.6 How to prepare the log splitter for transport

	PLACE THE BLADE INTO THE LOWER POSITION OF THE LOG SPLITTER SO THAT IT LEANS ON THE WOODEN PART (YOU CAN USE A SPLITTED LOG, PLACED SIDEWAYS).
	WHEN THE BLADE IS IN THE LOWER POSITION, REMOVE THE SAFEGUARD OF THE CYLINDER, PUSH THE LEVER B UP. THE CYLINDER WILL MOVE DOWN. WHEN THE CYLINDER REACHES THE LOWER POSITION, PRESS THE LEVER B DOWN IN ORDER TO PLACE THE VALVE INTO A NEUTRAL POSITION.

In case you cannot fold the log splitter, you should release the security shutdown button below.

Push both levers away down. The cylinder descends to the safety table.

Before you install the cylinder on the splitter again, make sure that no hydraulic hoses are stuck or caught.

8.7 Log splitter with gasoline engine

Prepare the motor for momentum as described in chapter 6.

Once the motor is running, all the command levers are in neutral position. This means that the hydraulics does not work by it self. Move the lever of the control valve for positioning the splitter in the working position. Then follow the chapter 8.2.

8.8 Operating system

8.8.1 Classical model – 2 SPEEDS



»R« position
When you push both levers up, the blade moves back to its initial working position and the levers to the position »O«.

»O« position
The levers are in the basic position and the blade does not move.

Position »I - turtle«
Press both levers simultaneously down. As long as the levers are in this position, the blade is moving down. The blade moves at normal speed (2x) and full power.

Position »II - rabbit«
When you push both levers down to the end position, the blade starts moving faster and with 40% less power.

8.8.2 Model MULTISPEED



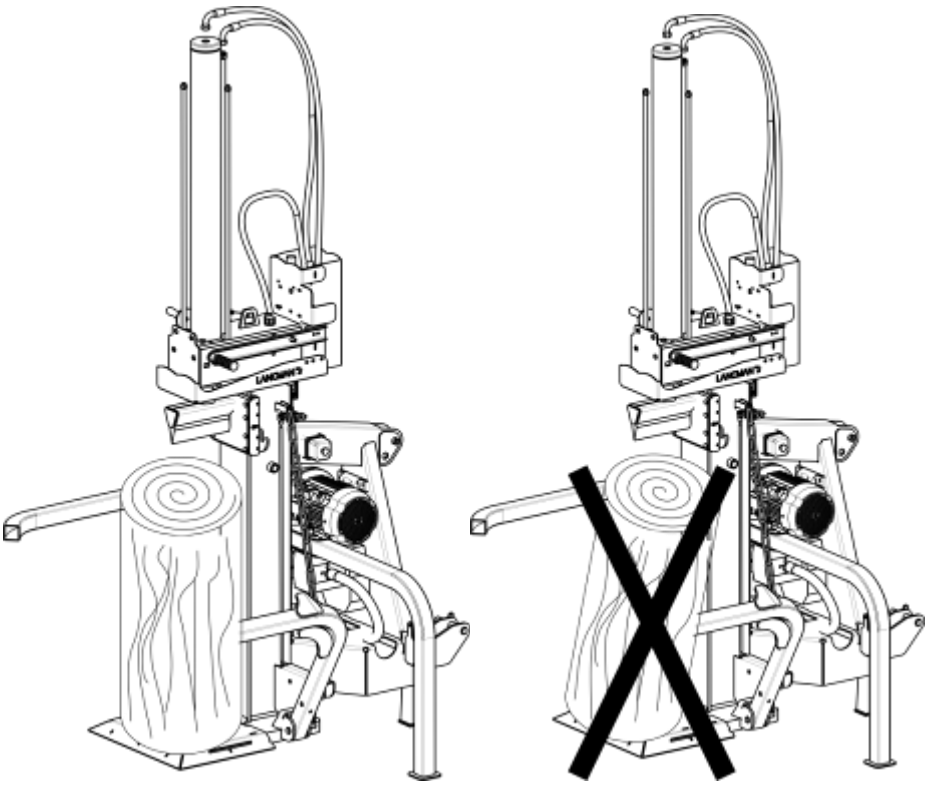
»R« position
When you push both levers up, the blade moves back to its initial working position and the levers to the position »O«.

»O« position
The levers are in the initial position and the blade does not move.

»AUTO« position
Press both levers simultaneously down. As long as the levers are in this position, the blade is moving down. The speed of the blade is adjusted automatically according to the blade load.

8.9 Splitting

In case the outside temperature is below zero (below 32 F) allow the splitter to run for approx. 5 minutes so that the hydraulic system reaches the operating temperature and then you may start working (hydraulic hoses should be slightly warm).



Put the log in an upright position and push it under the blade so that the log leans under the blade. In this way also work with thin logs is safe.
Push both levers on the splitter simultaneously. The blade moves towards the log and splits it. When releasing the levers the blade stops.
In order to move the blade into the initial position, push the levers up.
Note: The rod for switching-off can be also used for adjusting of the movement of the blade towards the initial position.
Unscrew the wing nut and push the rod for switching-off into the desired position (see picture: Log splitting).

In case the log is pressing against the safety bow, it can pop out of its position and fall to the ground. In this way the safety bow will not be damaged.

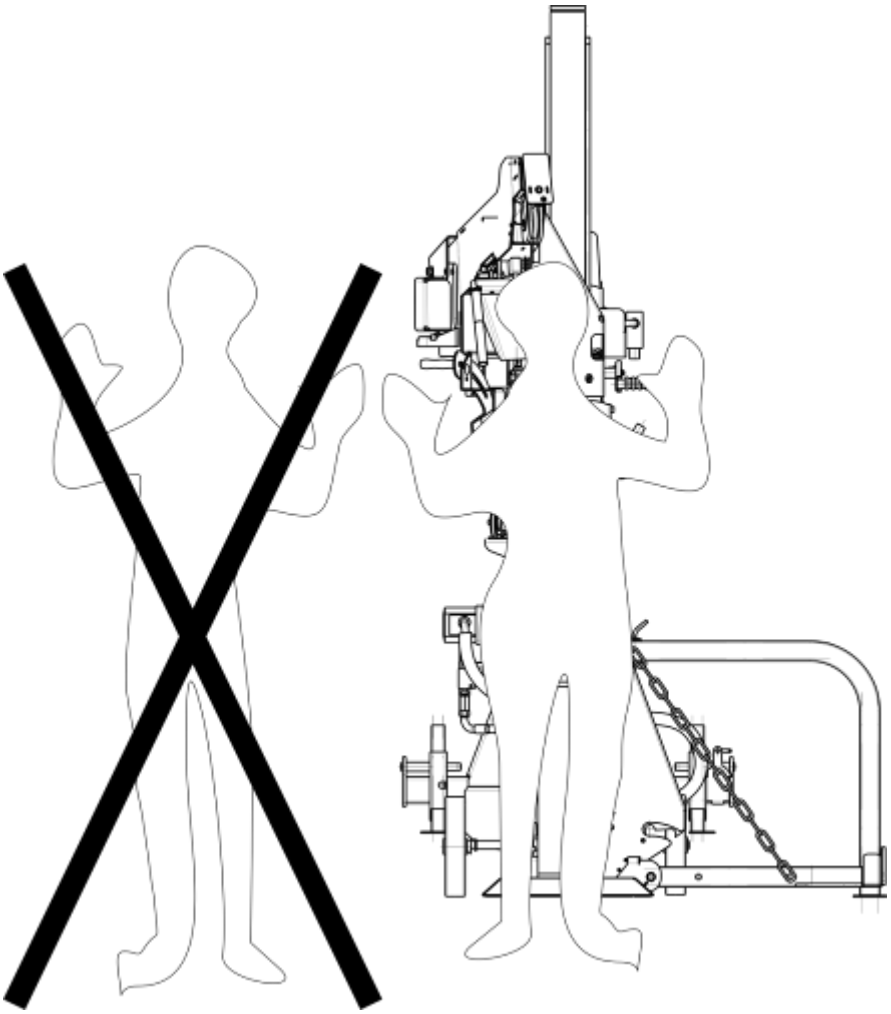
Before you start splitting another log, place the safety bow back to its operating position.

OIL WORKING TEMPERATURE MUST NOT EXCEED 80˚C (176 F). CHECK THE TEMPERATURE ON THE SENSOR. (ONLY MODELS LANCMAN 17, LANCMAN 22 and LANCMAN 26).

Never split the diagonally cut logs.

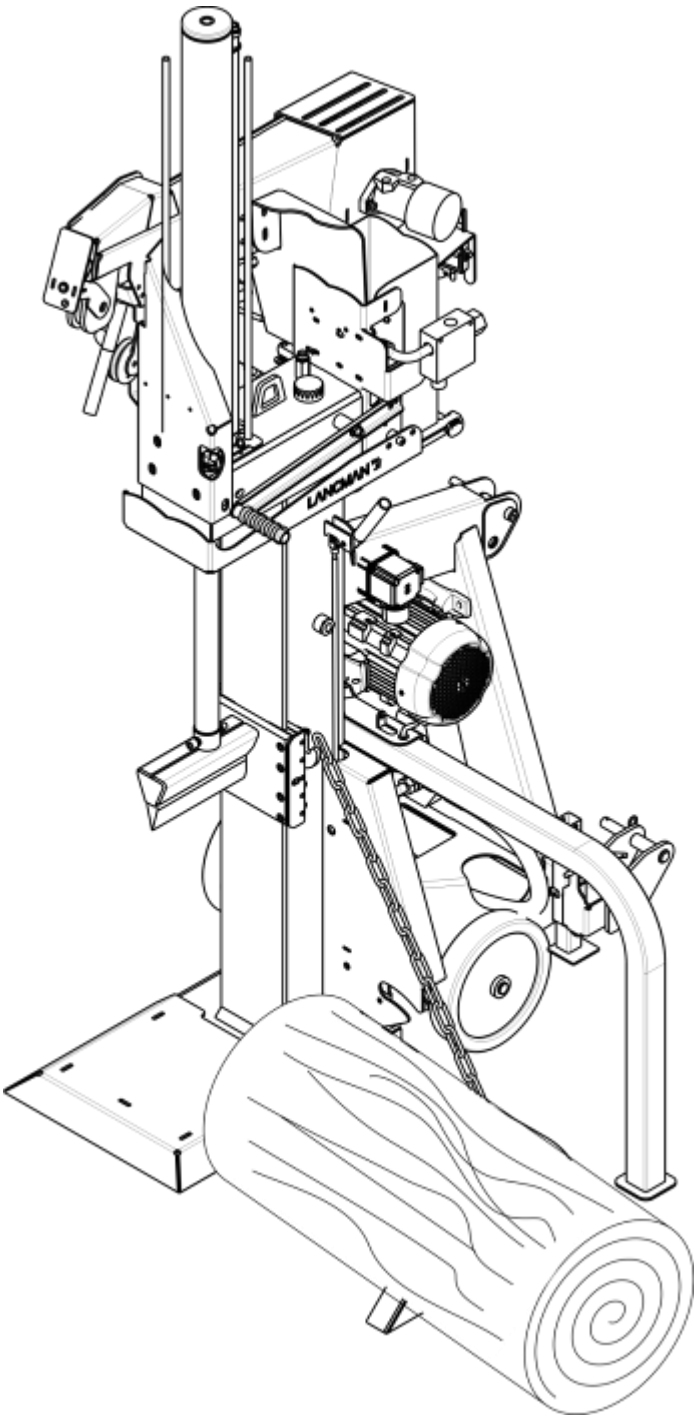
When splitting forked logs and irregularly shaped logs be careful since they may not be safely in place. The danger when splitting forked logs may arise from the fact that such logs move unexpectedly. Therefore please be cautious!

In case a log gets stuck on the blade turn off the splitter and safely remove the stuck log.



The splitter may be used by only one person at a time.

8.10 Mechanism for lifting logs



⚠ Through this mechanism the log is placed in the correct position for splitting. Actually the blade places the log while returning to the initial position.

⚠ **The mechanism for lifting logs may be used only on a log splitter that is connected to a three-point connection of the tractor.**

Installation of the lifting chain
The lifting arm (1) moves up and down together with the blade:
- Fix the last link of the chain onto the plate.

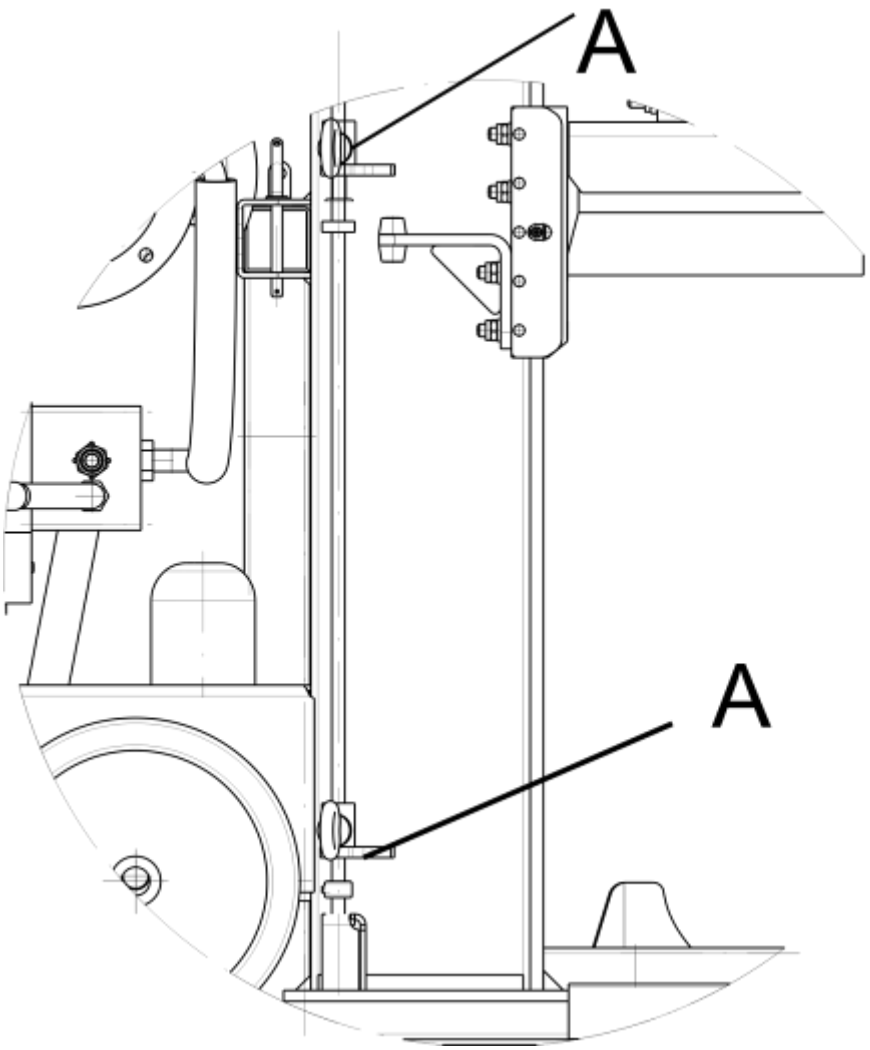
The lifting arm remains raised:
- with a manual lift of the mechanism (hook the lifting arm should in the notch of the lever (2)), or
- with fixing the link of the chain to the arm (the lifting arm automatically hooks in the notch of the lever).

Note: As the lifting arm moves down with a chain, you should activate the safety lever (5) in order that the lifting arm moves out of the notch of the lever.

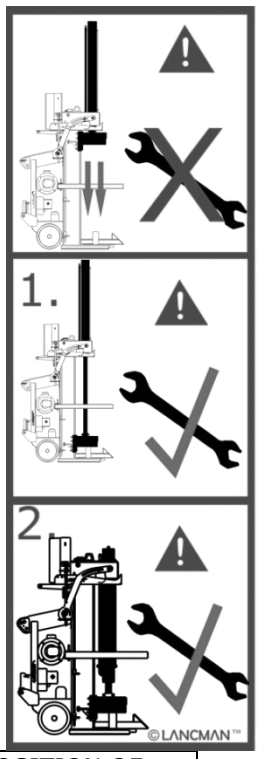
⚠ **To turn off the axe while returning to the initial position push the yellow shield up until the blade stops.**

8.11 Controlling the position of the blade

When splitting short logs and you want to do it faster, adjust the blade to the desired length. Place the screw (a) to a desired height.
In order to do that you need to move the blade to the lowest position, unscrew the bolt (A), set the desired height and tighten the bolds in the position.



9. TRANSPORT AND STORING OF THE MACHINE



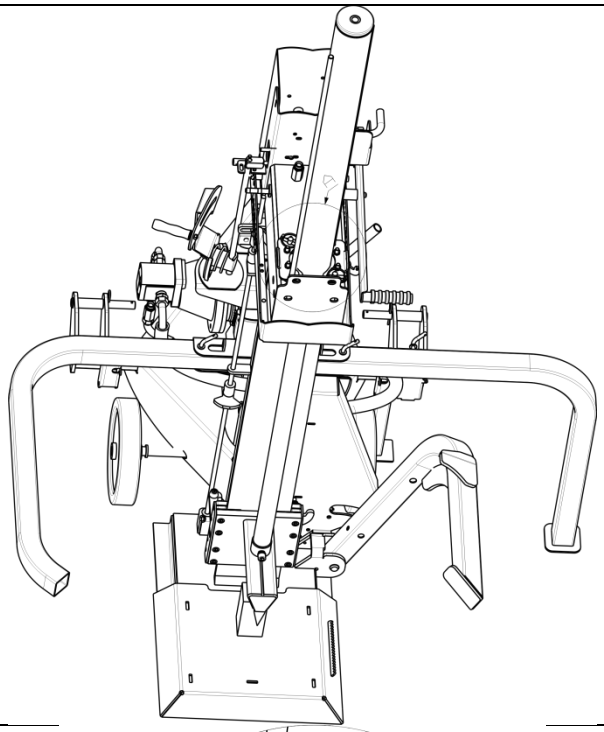
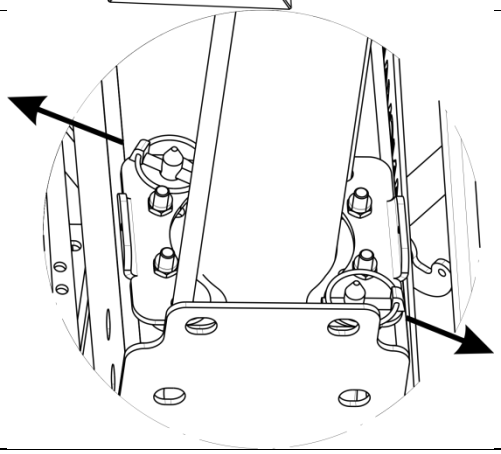
9.1 How to prepare the cylinder for the splitter transport

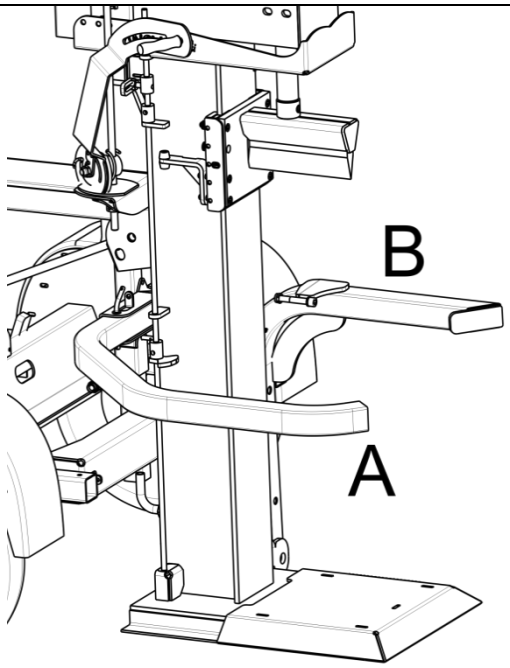
1. Push the levers down. The blade must descend to the table or the base.
2. Unscrew the two hexagonal screws on the cylinder protection.
3. Push both levers down. The cylinder descends to the blade.
4. Log splitter The splitter is ready for transport.

5. Before you install the cylinder on the splitter again, make sure that no hydraulic hoses are stuck or caught.

6. The splitter can only be transported on public roads and in the upright position.
7. For safety reasons and visibility you must stick reflective stickers on the back side of the splitter when transporting it on public roads.
8. Max. transport speed is 25 km/h (15 mph).
9. After disconnecting the splitter from the tractor place it on even and solid ground.

9.2 How to prepare the log splitter for transport

	PLACE THE BLADE INTO THE LOWER POSITION OF THE LOG SPLITTER SO THAT IT LEANS ON THE WOODEN PART (YOU CAN USE A SPLITTED LOG, PLACED SIDEWAYS).
	WHEN THE BLADE IS IN THE LOWER POSITION, REMOVE THE SAFEGUARD OF THE CYLINDER, PUSH THE LEVER B UP. THE CYLINDER WILL MOVE DOWN. WHEN THE CYLINDER REACHES THE LOWER POSITION, PRESS THE LEVER B DOWN IN ORDER TO PLACE THE VALVE INTO A NEUTRAL POSITION.

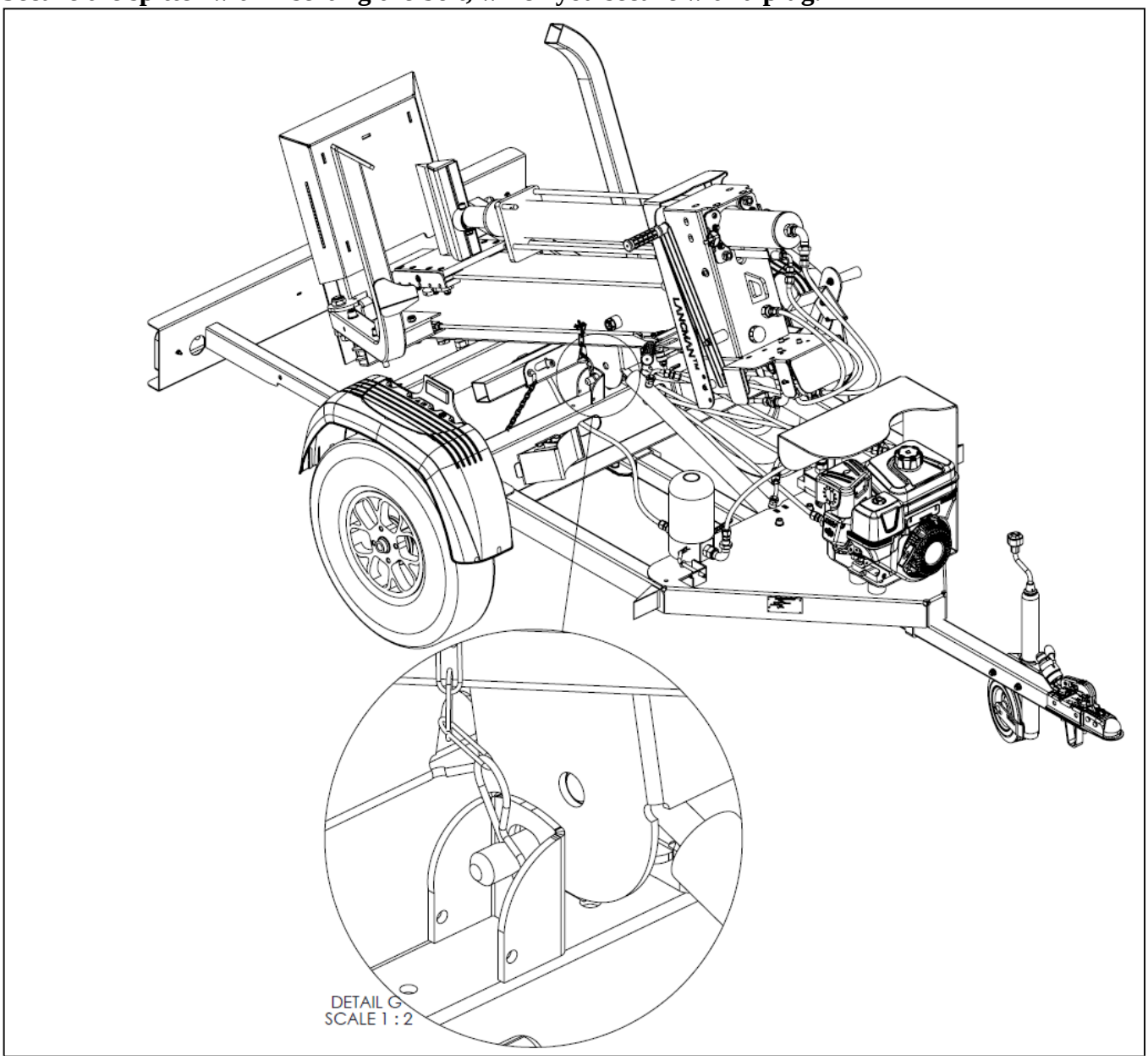
 10.2	LIFTING ARM (B) HAS TO BE PLACED INTO UPPER – STORED POSITION SO THAT IT GETS STUCK, THE CHAIN HAS TO BE HOOKED AND SECURE WITH A PLUG SIDE ARM HAS TO BE PUSHED INWARD AND SECURE IT WITH A FORELOCK AND A PLUG.

in case, of the splitter not clear away it is necesary to release the stinter of the switch below.

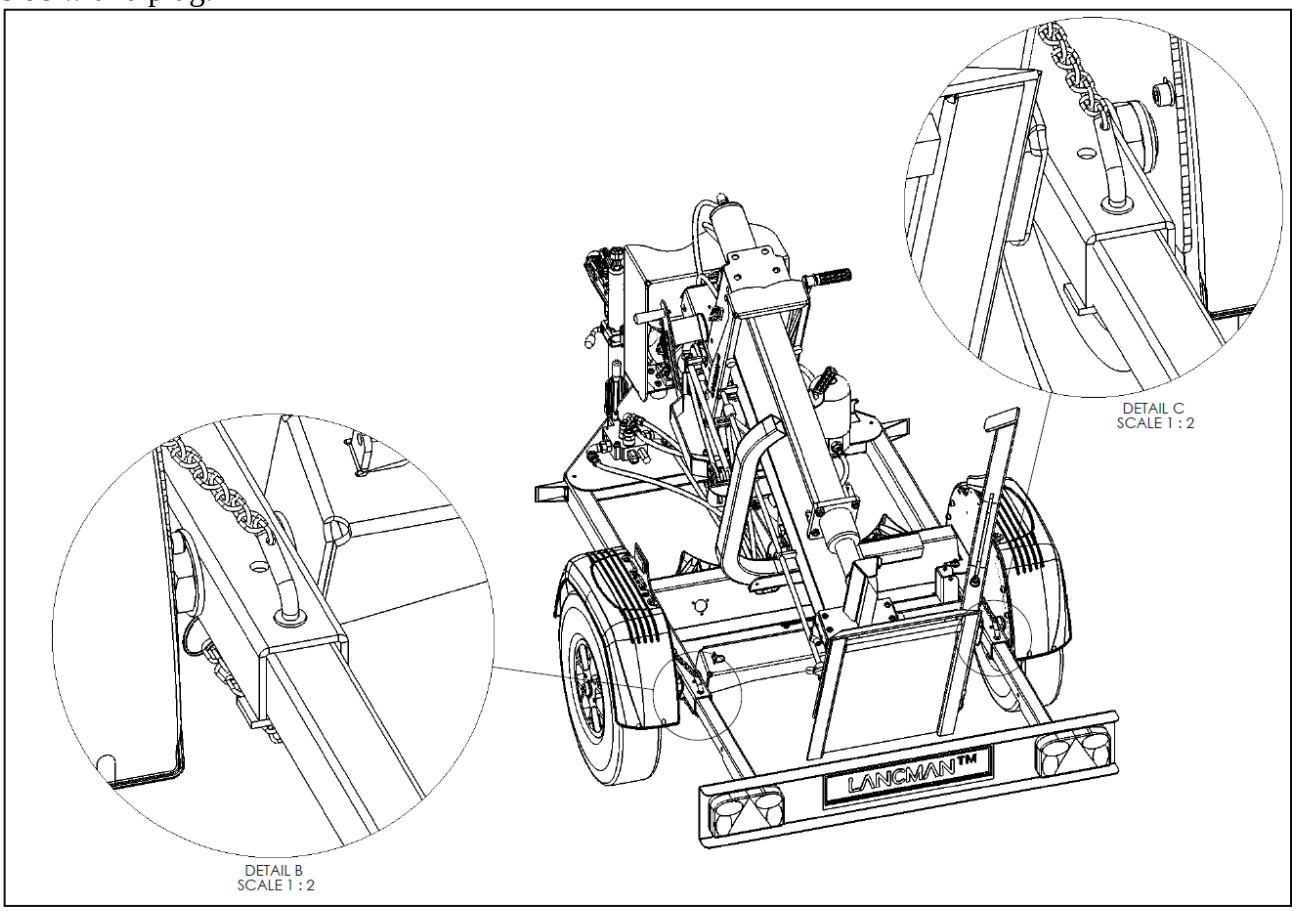
Check that the hydraulic hoses are not caught anywhere, while the cylinder is moving.

When the cylinder is lowered (in transport position) and the side arm and the lifting arm stored as it is described, you can start with setting the splitter in to lying position (you do so by pushing the lever of the valve forward) while doing so be carefull that there is not a person or any other sort of item trapped in between

Secure the spltter with inserting the bolt, which you secure with a plug.



Take the light supporter and insert it in the tube. In the light supporters insert a forelock and secure it on each side with a plug.



⚠ **BEFORE EACH TRANSPORT OF THE SPLITTER ALL THE BOLTS AND MOVING PARTS HAVE TO BE CHECKED YOU HAVE TO FOLLOW THE INSTRUCTIONS FOR SAFE TRANSPORT AND IF NEEDED STRAP ON THE PARTS THAT ARE MOVING FREELY, IF NOT THE TRANSPORT OF THE SPLITTER CAN BE DANGEROUS.**

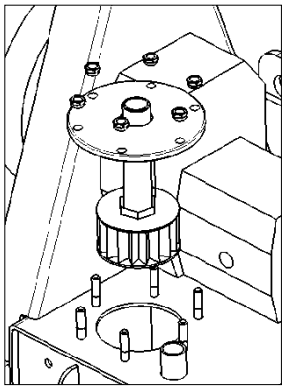
⚠ **BEFORE TRENSPORTATION REMOVE ALL EXTRA EQUIPMENT (TABLE FOR SHORT LOGS, 4-WAY WEDGE).**

10. MAINTENANCE AND INSPECTIONS

Before carrying out maintenance and inspections turn off the splitter!

10.1 General safety rules

- Never leave your splitter unattended while the engine is running.
- Use original spare parts only.
- Never use the splitter without protection.
- Before every use, check the function of the splitter's steering system and security components (yellow shield).



10.2 Inspection of the splitter

- Screw down all nuts after the first hour of work.
- Screw down all nuts and other parts after 100 working hours on the splitter.
- Replace used nuts with new ones.
- For security reasons check all connections with the hydraulics.

10.3 Hydraulic system

- Before every use, check the condition of the hydraulic installation (hose). Pay special attention to possible mechanical damage. A damaged hydraulic hose can burst under high pressure and oil can squirt out. This is very dangerous!
  Note: Check the oil level when the blade is in the starting position.
- Maximum oil level is reached when the lens for the oil level is full.
- When the oil level reaches 60 % on the scale, the minimum oil level is reached.
- If this is the case, add enough oil immediately.
- To add oil, unwind the lid of the filling part (see picture – main parts of the splitter).

10.4 Guiding framework

- The guiding framework needs to be lubricated regularly (put the lubricant on a brush or broom). You can also lubricate it through the lubricating nipple (depends on the model)!

10.5 Maintenance of the log splitter

Change of oil in the hydraulic system
Warning! Used oil must be removed in accordance with environmental regulations. Read and consider valid environmental regulations. *Note:* Before the change, the blade must be in the open position (starting position).
First change of oil must be done after 50 hours of work on the splitter. The next change must follow every 500 hours of work on the splitter or at least once in 24 months.

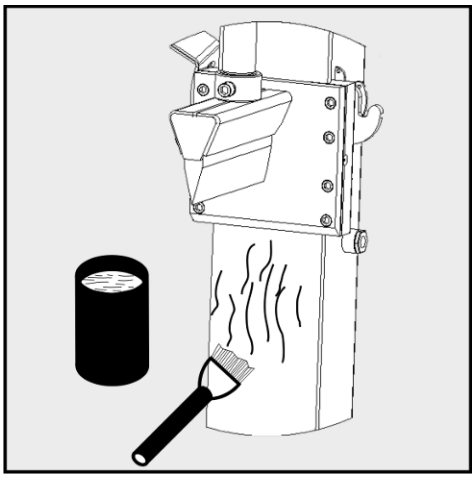
1. 1. Unwind the lid of the tap on top of the filling part on the tank.
2. Prepare a container for approx. 30 l of waste oil and place it under the tap on the bottom of the tank. Unwind the magnet tap on the bottom of the tank and clean it before adding new oil.
3. Insert the tap on the bottom of the tank and seal it with a sealing compound. Add new oil to the tank. The oil must be of suitable quality described under item 4. **For the amount see the technical data on the log splitter**. You should reach the maximum point on the oil scale.

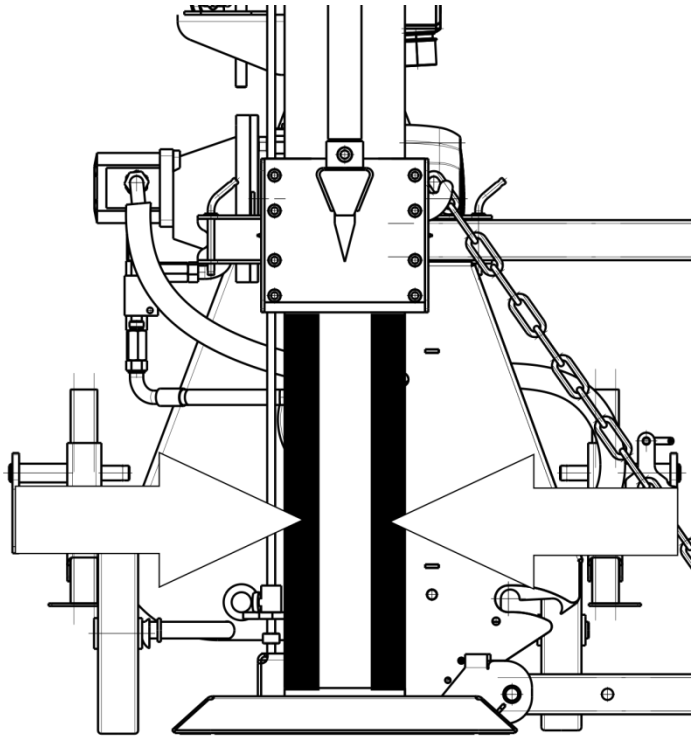
10.6 Maintenance of the oil filter

Check and/or clean the oil filter when you change oil. You may find aluminium scrapings that originate from the pump operation.
Change the filter if you find a mechanical damage or holes.

10.7 Slide plates of the log splitter

Slide plates of the splitter and lined brass are parts that are used fast and are consumable materials. When they are extensively used, they have to be replaced with new ones. By doing so, you enable a longer life-span for the cylinder and seals of the cylinder.





11. TROUBLESHOOTING

DEFECT	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
The blade does not move	Broken lever	Change the lever
	Wrong direction of rotation of the tractor PTO-shaft	Change the direction of rotation of the tractor PTO-shaft
	To little or no oil in the hydraulic system	Check oil level
Weak engine	Improperly installed safety valve	Check the pressure, adjust the safety valve
	To little or no oil in the hydraulic system	Check oil level
Weak engine	Improperly shaped log	Split the log from the side
Increased noise, produced by the splitter	A too high rotation speed	Preserve the prescribed rotation speed
	Clogged filter	Clean the filter
	To little oil in the multiplication device	Check the oil in the multiplication device
The blade does not move, the cylinder moves up and down	The splitter is still in the transport position. The screws for the cylinder are not tighten as described.	Unscrew the two screws, push the levers down and hold them until the cylinder housing sits on the splitter housing. Then insert the screws and tighten them.
Hydraulic system leaks	Worn out piston seal	Replace the seal
	Cranky cylinder piston	Tighten the cylinder piston
	Damaged cylinder piston	Replace the cylinder piston
Oil and hydraulic hoses overheating	Too many rotations on the drive.	Reduce the number of rotations on the tractor.
	Too little oil in the hydraulic system	Check oil level
	Poor quality of the hydraulic oil	Change oil

12. CONSUMABLES FOR THE SPLITTER

The consumables for the log splitter are:
- oil,
- wearing of the sliding plates and underlay brass,
- wearing of the blade,
- oil filter.

Consumables are not subject of claims.

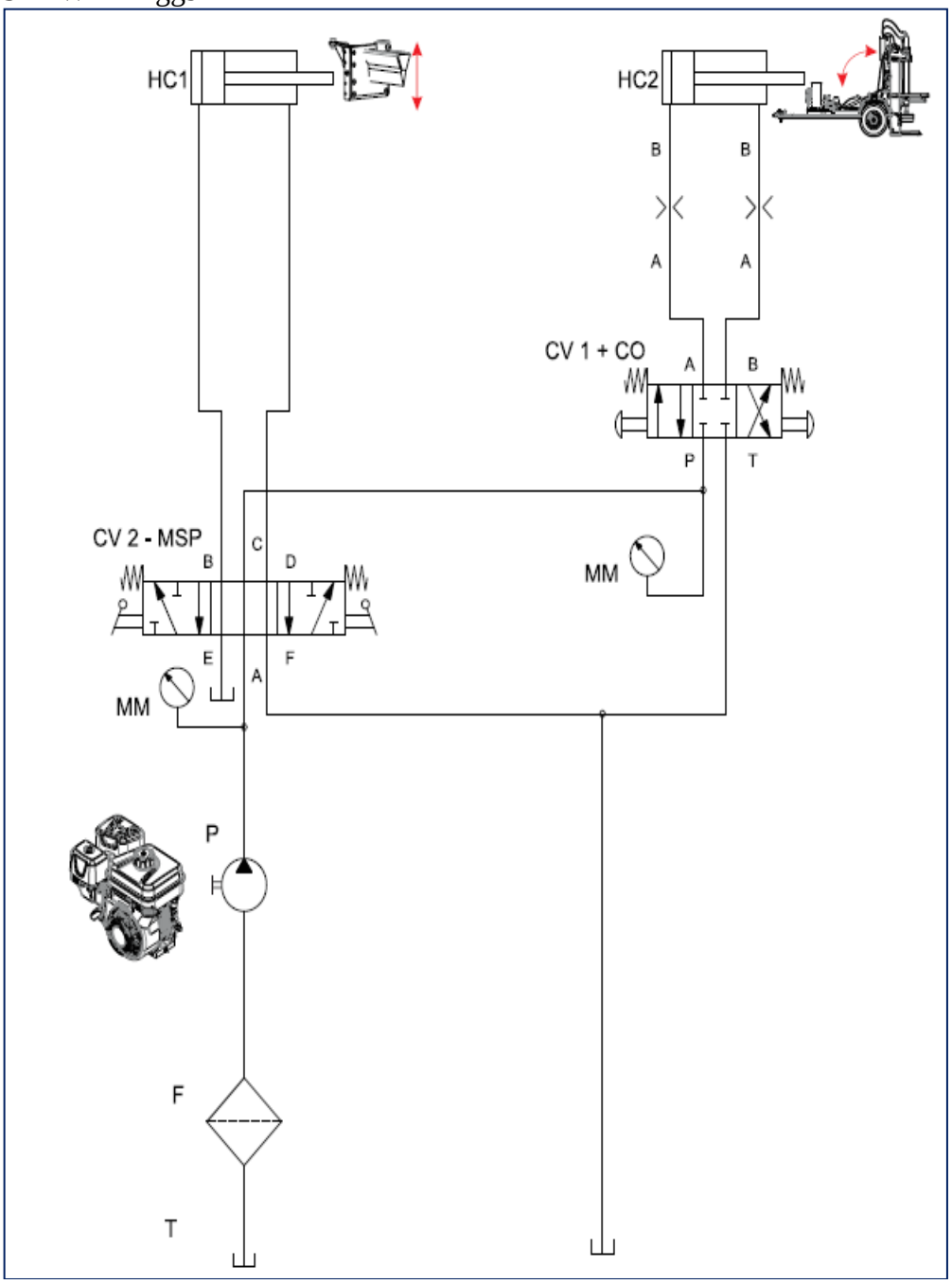
13. HYDRAULICS SCHEME

13.1 HYDRAULICS SCHEME

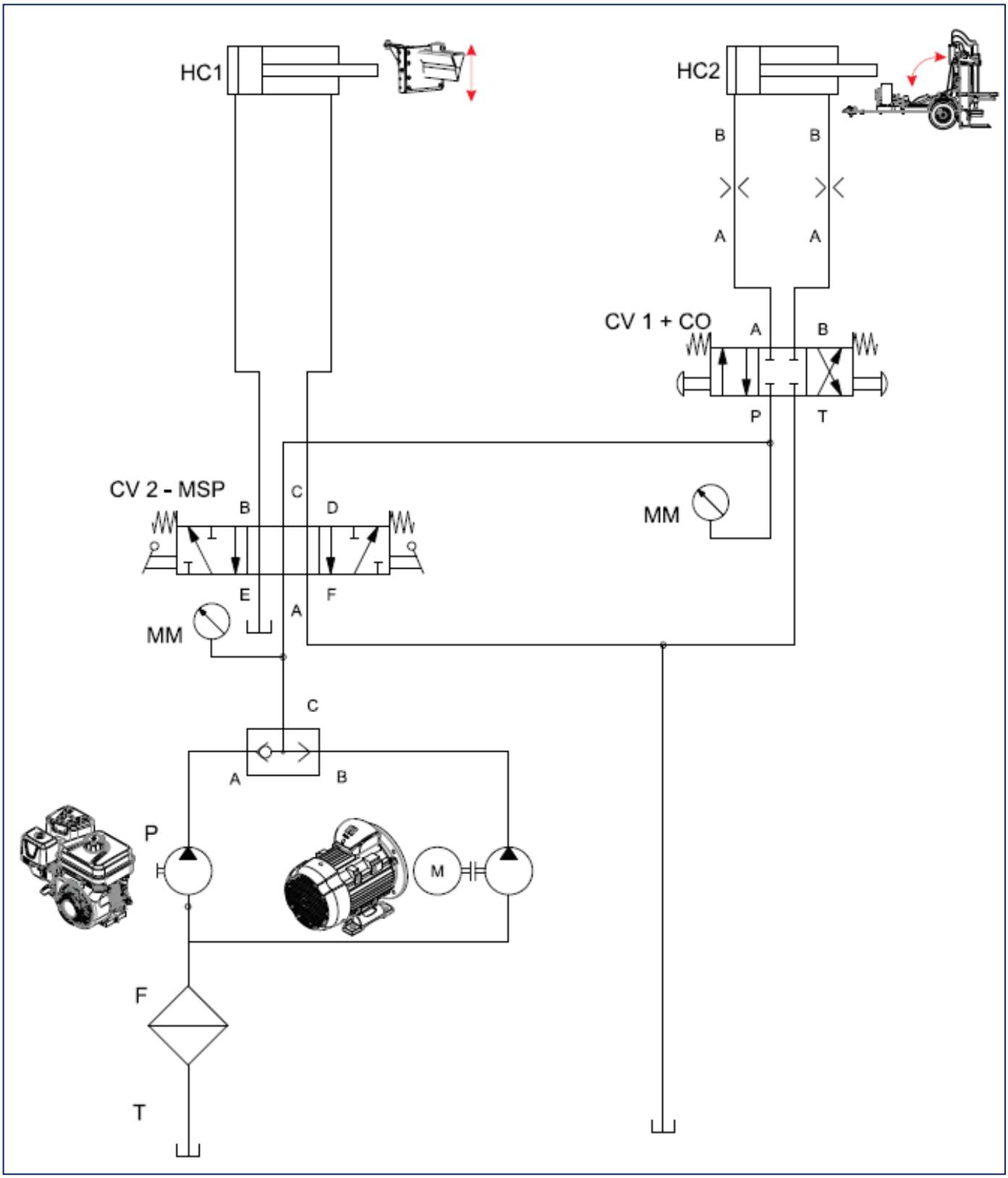
CHART: LEGEND OF SIGNS

2S	**2 SPEEDS**	**FRT**	**FLOW DISTRIBUTOR**	**PRT**	**PRESSURE DISTRIBUTOR**
CO	**TRANSITION FORWARD CO**	**HC**	**HYDRAULIC CYLINDER**	**SV**	**SAFETY VALVE**
CV	**ROUTER VALVE**	**HM**	**HYDRAULIC MOTOR**	**T**	**TANK**
DV	**DIRECTION VALVE DV**	**MM**	**MEAEURING PLACE**	**TV**	**T – PIECE**
EM	**ELECTROMOTOR**	**MSP**	**MULTISPEED VALVE**	**VI**	**SWIFT**
F	**OIL FILTER**	**ODV**	**OPPOSITE DIRECTION VALVE**	**XTSPD**	**XTRMSPEED**
FR	**FLOW STINTER**	**P**	**PUMP**		

STAWX Briggs



STAWX Briggs + EL

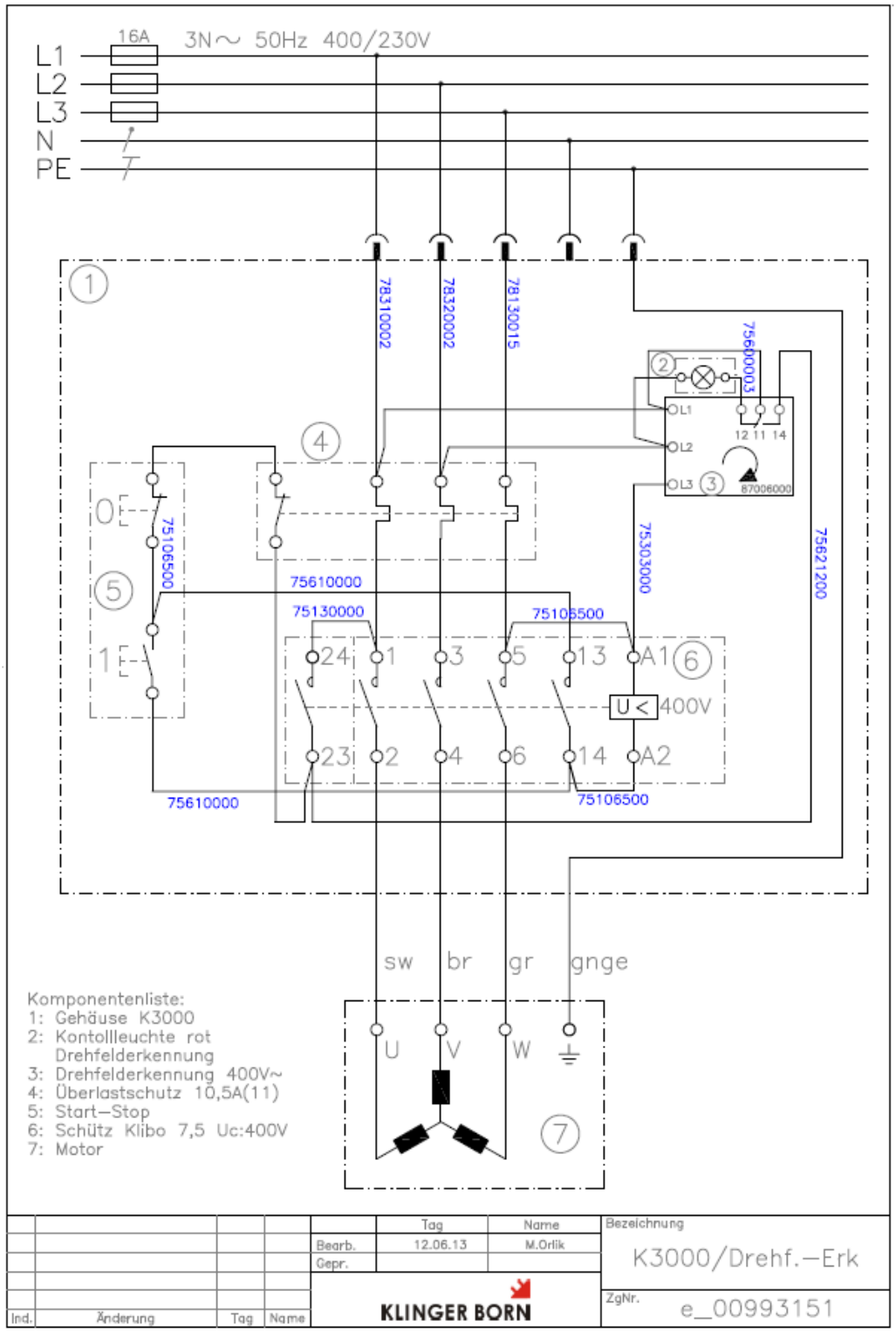

HC1
HC2
B
B
A
A
CV 1 + CO
A
B
P
T
CV 2 - MSP
B
C
D
T
T
E
F
A
MM
MM
C
A
B
P
M
F
T

14. ELECTRIC SCHEME

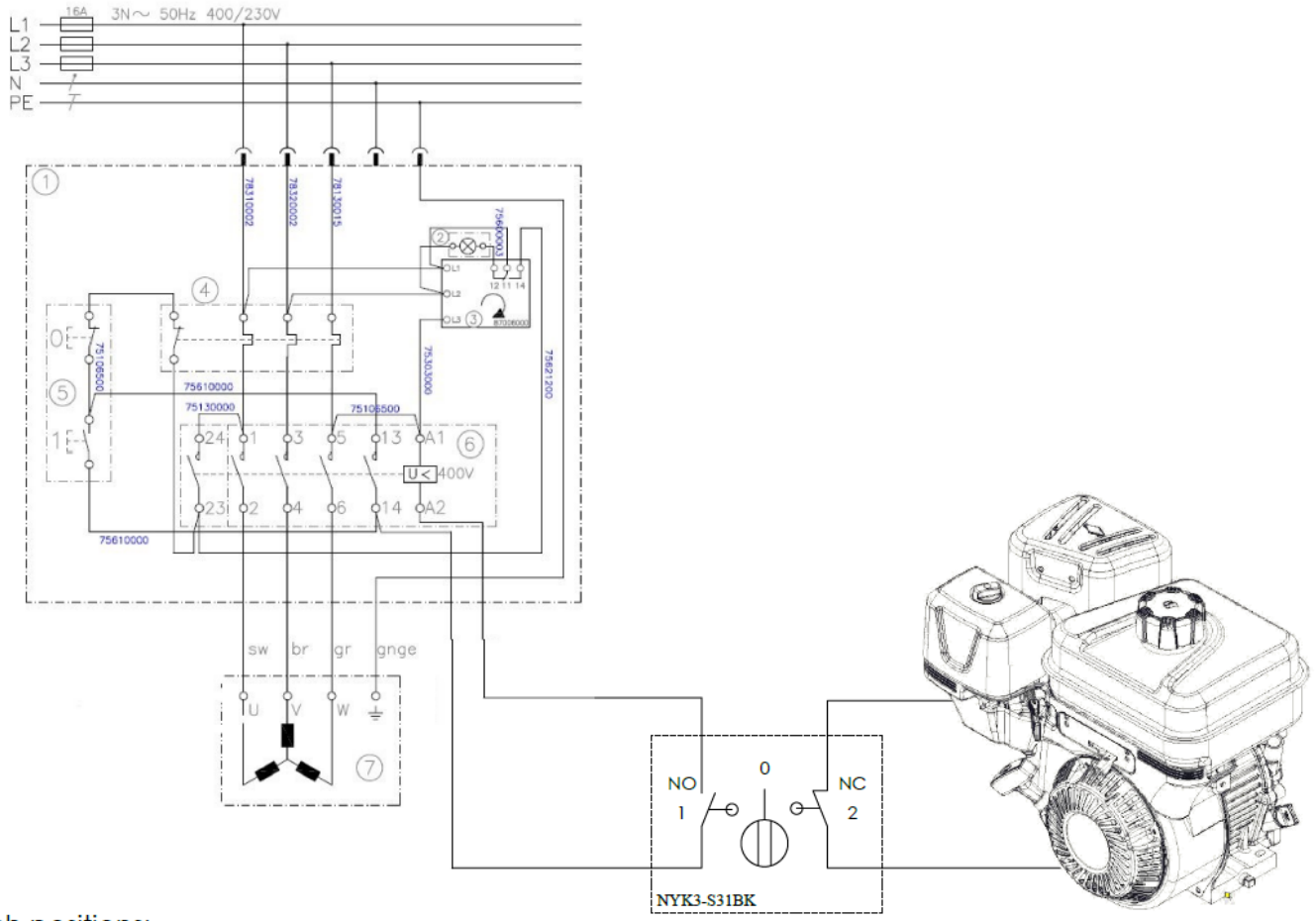
14.1 ELECTRIC DRIVE 400V/5.5 Kw

Electric motor: 112MB-4B5
Voltage: 400 V/1440 Umdreh.
Power: 5,5 kW
Current: 11,64 A

Switch KLIBO No..: 00993151 (Control light + wrong direction blockage).



14.2 SCHEME FOR COMBINED ELECTRIC DRIVE + GASOLINE ENGINE



Switch positions:
0 - Neutral - Eletric motor or gasoline engine won't start
1 - Eletric motor ENABLE
2 - Gasoline engine ENABLE

GARANCIJSKI LIST • JAMSTVENI LIST • GARANTNI LIST CERTIFICATE OF GUARANTEE • GARANTIESCHEIN • CERTIFICATO DI GARANZIA • ZÁRUČNÝ LIST • ZÁRUČNÍ LIST • JÓTÁLLÁSI JEGY • GARANTIE • CERTIFICADO DE GARANTÍA • CERTIFICATE OF WARRANTY • CERTIFICAT DE GARANTIE

NAZIV IZDELKA•PROIZVOD•PRODUCT•PRODUKT•PRODUIT• PRODUCTO • PRODUS

TIP/TYPE/TYP/TIPO/TIP:

SER.ŠT. • SER.NR. • SER.NO. • NÚMERO SERIAL • SERIA DE FABRICATIE:

- Ime, sedež in žig prodajalca:
- Naziv, sedište i pečat poduzeća:
- Reseller full name and address:
- Name, Sitz und Stempel des Unternehmens:
- Jméno, adresa razitko prodávajiciho:
- Meno, adresa a pečiatka predajcu:
- A terméket forgalmazó cég neve, székhelye és bélyégzoje:
- Concessionnaire nom, lieu et cachet:
- Nobre, dirección y sello de vendedor:
- Numele, adresa si stampila vanzatorului:

Datum izročitve blaga • Datum prodaje • Date of purchase • Verkaufsdatum • Data sprzedazy • Date predaja • Az eladás dátuma • Date de la vente • Fecha de la entrega • Data vanzarii

Podpis prodajalca • Potpis • Signature • Unterschrift • Potpis • Aterförsäljares namnteckning • Podpis prodejce • Aterförsäljares namnteckning • Signature du vendeur • Firma de vendedor • Semnatura vanzatorului

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