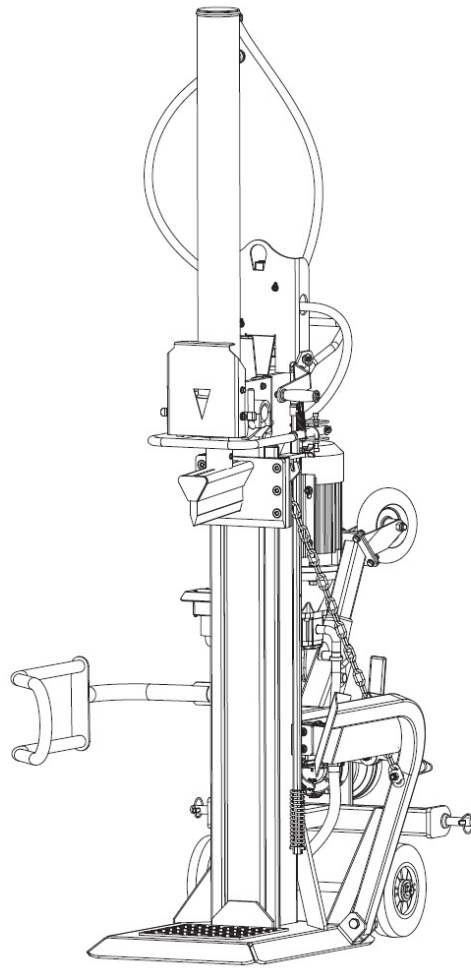


VARI®



FOR YOUR SAFETY

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

**MODEL: VARI 22 TON SUPER FORCE
SERIAL NUMBER:**

Both model number and serial number may be found on the main label.
You should record both of them in a safe place for future use.

Save This Manual for Future Reference

HYDRAULIC LOG SPLITTER
Instructions for use (Original instructions for use) 2019

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Edition 2019. The manufacturer reserves the right to introduce technical modifications and innovations, which do not affect the function and safety of the machine. These modifications may not necessarily be specified in this user manual. Printing errors reserved.

INTRODUCTION

Your new log splitter will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find your new unit easy and safe to operate, and with proper care, it will give you many years of dependable service.



Carefully read through this entire operator's manual before using your new log splitter. Take special care to heed the cautions and warnings.

ENVIRONMENT



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be resorted, taken to the local recycling centre and disposed of in an environmentally safe way.

SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on 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 work space tidy!
Untidiness may result in accidents.



Do not remove or tamper with any protection or safety devices.



Do not smoke or have open flames.



Dispose of the used oil in an environment-friendly way.



Do not use in the rain.



Danger! Keep clear of moving parts!



Do not remove jammed logs with your hands.



Caution! Thrown objects.



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



Avoid injury from the movement of the splitting blade.



Keep bystanders away from the working area.

SAFETY

SAFETY WARNINGS & INSTRUCTIONS

• UNDERSTAND YOUR LOG SPLITTER

Read and understand the owner's manual and labels affixed to the log splitter. Learn its application and limitations as well as the specific potential hazards peculiar to it. Be thoroughly familiar with the controls and their proper operation.

• DRUGS, ALCOHOL AND MEDICATION

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

- **AVOID DANGEROUS CONDITIONS**

Always operate your log splitter on dry, solid, level ground. Never operate your log splitter on slippery, wet, muddy or icy surfaces. The location you choose should be free from any tall grass, brush or other interferences. There should be plenty of room for handling, and help the operator stay alert. Keep your work area clean and well lighted. Cluttered areas invite injuries. To avoid tripping, do not leave tools, logs or other components lying around the work area. Do not use the log splitter in wet or damp areas or expose it to rain. Do not use it in areas where fumes from paint, solvents or flammable liquids pose a potential hazard.

- **INSPECT YOUR LOG SPLITTER**

Check your log splitter before turning it on. Keep guards in place and in working order. Form a habit of checking to see that keys and adjusting wrenches are removed from tool area before turning it on. Replace damaged, missing or failed parts before using it. Make sure all nuts, bolts, screws, hydraulic fittings, hose clamps, etc. are securely tightened. Always check the oil level in the hydraulic oil tank. Never operate your log splitter when it is in need of repair or is in poor mechanical condition. Before starting work, test the stopping devices to keep them in safe working condition.

- **DRESS PROPERLY**

Do not wear loose clothing, gloves, neckties or jewellery (rings, wrist watches). They can be caught in moving parts. Protective, electrically non-conductive gloves, non-skid footwear and hearing protection are recommended when working. Wear protective hair covering to contain long hair, preventing it from get caught in machinery.

- **PROTECT YOUR EYES AND FACE**

Any log splitter may throw foreign objects into the eyes. This can cause permanent eye damage. Always wear safety goggles. Everyday eyeglasses have only impact resistant lenses. They are not safety glasses.

- **EXTENSION CORDS**

Improper use of extension cords may cause inefficient operation of the log splitter, which can result in overheating. Be sure the extension cord is not longer than 10 m and its section is not less than 2.5 mm² to allow sufficient current flow to the motor. Avoid use of free and inadequately insulated connections. Connections must be made with protected material suitable for outdoor use.

- **AVOID ELECTRICAL SHOCK**

Check that the electric circuit is adequately protected and that it corresponds with the power, voltage and frequency of the motor. Check that there is a ground connection. Ground the log splitter. Prevent body contact with grounded surfaces: pipes, radiators, ranges, and refrigerator enclosures. Never open the switch / plug box. Should this be necessary, contact a qualified electrician. Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging the log splitter.

- **PREVENT FIRES**

Do not smoke or have open flames when operating or refilling the log splitter. Never operate the log splitter near a flame or candle. Oil is flammable and can 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 under operation. Only the operator should stand near the machine and only within the safe operating area prescribed in this manual. Never use another person to help you with freeing a jammed log. No one under the age of 16 should be allowed to operate the log splitter. Any individual under the age of 18 should have the necessary training, skills to perform the functions properly and safely and should always be under the supervision of an adult.

- **INSPECT YOUR 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 sliding out of position while under pressure. Branches must be cut off the trunk.

- **DON'T OVERREACH**

Keep proper footing and balance at all times. Never stand on the log splitter. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted. Do not store anything above or near the log splitter where anyone might stand on the tool to reach it.

- **AVOID INJURY FROM UNEXPECTED ACCIDENT**

Do not straddle or reach across the splitting area when operating the log splitter. Never pile logs to be split in a manner that will cause you to reach across the log splitter. Only use your hands to operate the control levers. Never use your foot, knee, a rope or any other extension device. Always pay full attention to the movement of the wedge ram. Never attempt to load your log splitter while the ram is in motion. Keep hands out of the way of all moving parts. Never try to split two logs on top of each other. One of them might fly up and hit you.

- **PROTECT YOUR HANDS**

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

- **DON'T FORCE TOOL**

It will do a better and safer job at its design rate. Don't use the log splitter for a purpose for which it was not intended. Do not alter the equipment, or use the equipment in such a way as to circumvent its design capabilities and capacities. Never try to split logs larger than those indicated in the specifications table.

- **DISCONNECT POWER**

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

- **MAINTAIN YOUR LOG SPLITTER WITH CARE**

Before cleaning, repair, inspecting or adjusting, shut off the machine and make certain all moving parts have stopped. Always clean the unit after each use. Keep the log splitter clean for best and safest performance. Follow instructions for lubricating. Inspect all hydraulic seals, hoses and couplers for leaks prior to use. Control levers and power switch must be kept clean, dry and free from oil and grease at all times.

- **PROTECT THE ENVIRONMENT**

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

- **MAKE THE WORKSHOP CHILDPROOF**

Lock the shop. Store the log splitter away from children and others not qualified to use it.

- **DEAL WITH ACCIDENT**

Always have a fire extinguisher and a first aid kit available for use should the need arise. In emergency always know the location of the nearest phone or keep a phone on the job site. Also know the phone numbers of the nearest ambulance, doctor and fire department. This information will be invaluable in the case of an emergency.

- **SPECIAL WARNING**

- The splitting operation of the machine is designed to be activated by one person. While there is the possibility that additional operators could be working with the machine (e.g. for loading and unloading), only one operator should activate splitting operations;
- The machine shall not be used by children;
- Description of functional tests of the machine;
- The installation and maintenance requirements including a list of those devices e.g. two-hand control device which should be verified, how frequently the verification shall be carried out and by what method.

SPECIFICATIONS

Model		65682
Trade Name		VARI 22 TON SUPER FORCE
Motor (400 V 3N~ 50 Hz)		S6 40 % IP54 5100 W
Log Size Capacity	Diameter	8-35 cm
	Length	56-110 cm
Maximum Force		22 t ± 10 %
Hydraulic Pressure		27,5 MPa
Hydraulic Oil Capacity		24 l
Ram Travel		94,8 cm
Speed	Forward	10,5 cm/s
	Retract	4,3 cm/s
Noise Pressure Level (LpA)		7,5 cm/s
Vibration		≤ 80 dB (A)
Overall Sizes	Length	2,5 m/s ²
	Width	105 cm
	Height	170 cm
Weight		250 cm
		319,9 kg

S6 40%, continuous operation periodic duty: time of one load cycle is 10 minutes, operation time at constant load is 4 minutes, operation time at no-load is 6 minutes.

APPLICATION CONDITIONS

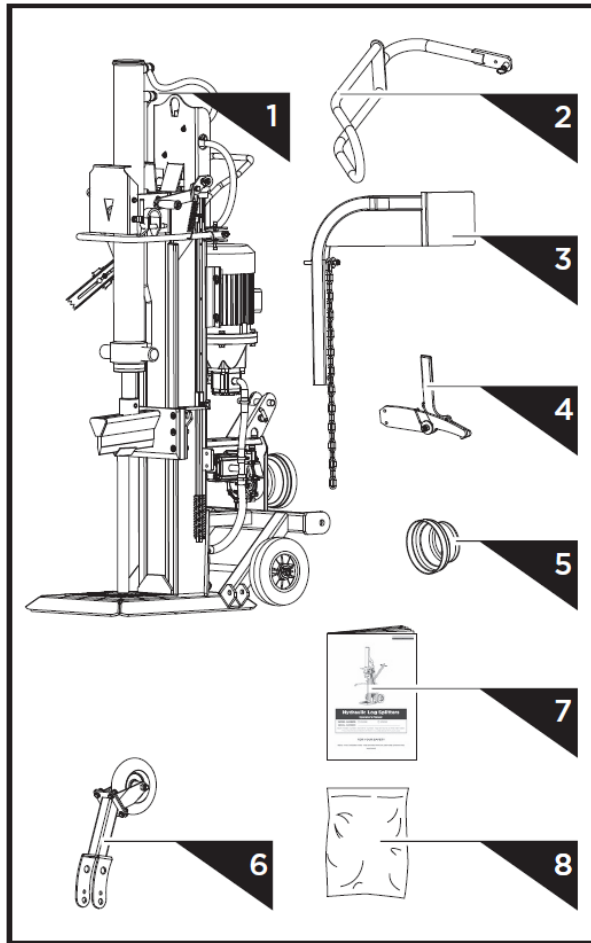
This log splitter is designed for operating under ambient temperatures between +5°C and +40°C and for installation at altitudes not more than 1000 m above M.S.L. The surrounding humidity should be less than 50 % at 40°C. It can be stored or transported under ambient temperatures between -25°C and +55°C.

ELECTRICAL REQUIREMENTS

With 3 phase 400 Volt / 50 Hz motor, the log splitter should be connected to standard 400V ± 10 % / 50 Hz ± 1 Hz electrical supply which has protection devices of under-voltage, over-voltage, over-current as well as a residual current device (RCD) with maximum residual current rated at 0.03 A.

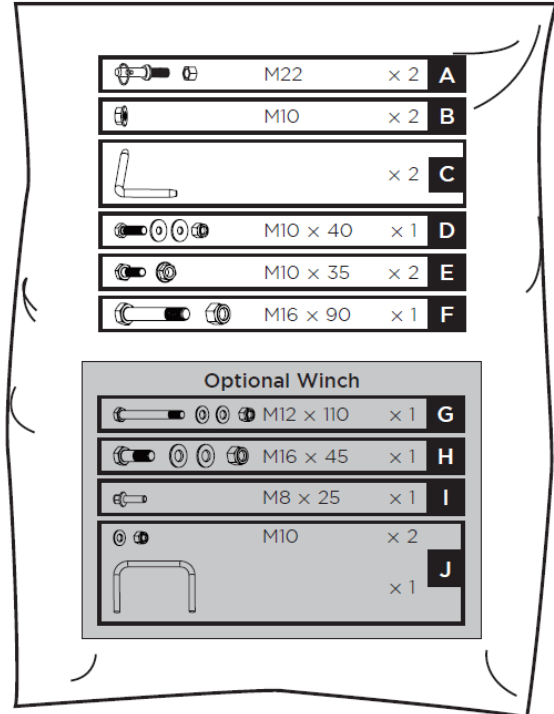
The mains connection and extension cable must have 5 wires = 3P + N + PE (3/N/PE). The mains connection must have maximum 8 A fuse. Electrical connection rubber cables must comply with IEC 60245, which is always marked with symbol H 07 RN. Cables should be identified, as it is a legal requirement. The cable is not supplied with the machine.

CONTENTS SUPPLIED

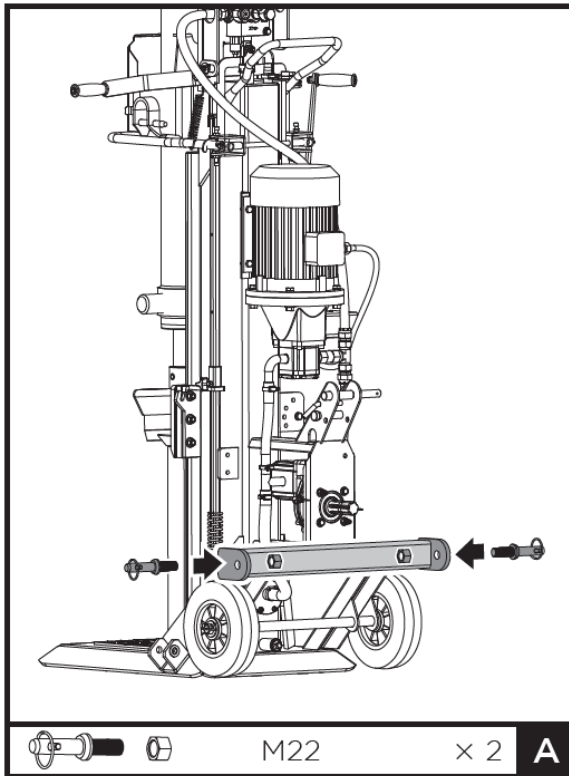


1. Log splitter frame & power station
2. Guard arm
3. Log lift
4. Retaining hook

5. PTO cover
6. Support wheel
7. Operator's manual
8. Hardware bag, including

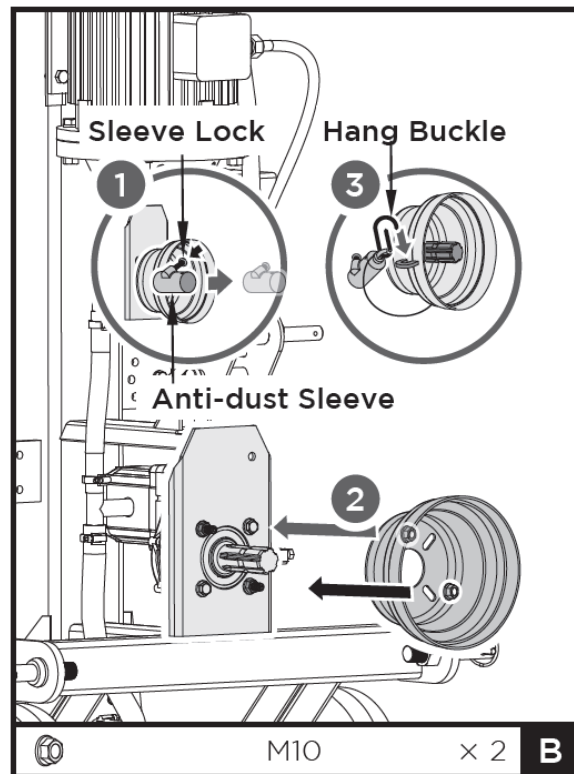


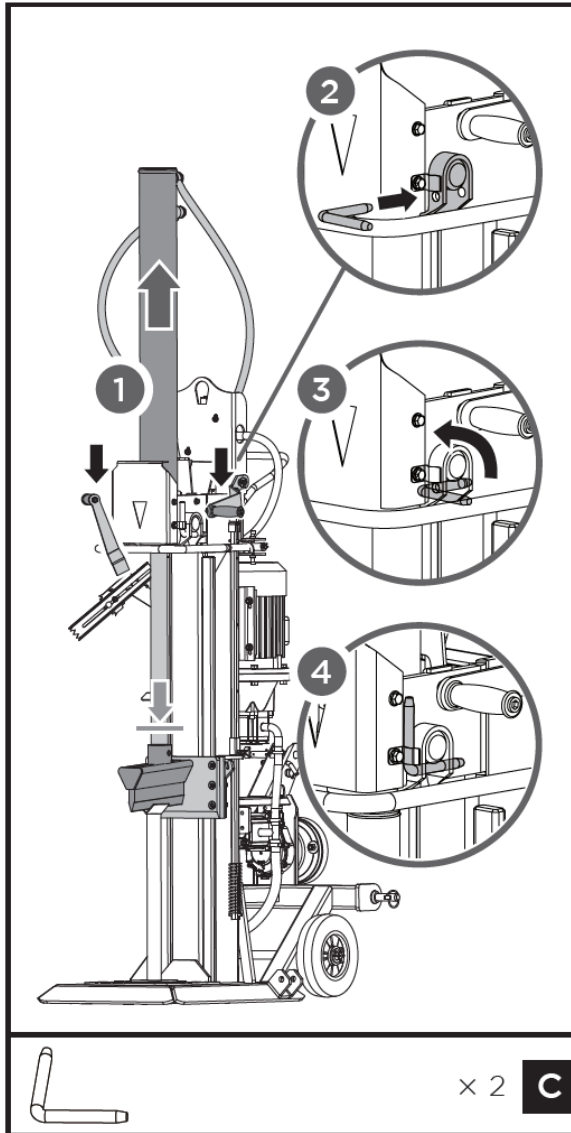
ASSEMBLY



1. Secure the hook-up pins to hitch bracket.

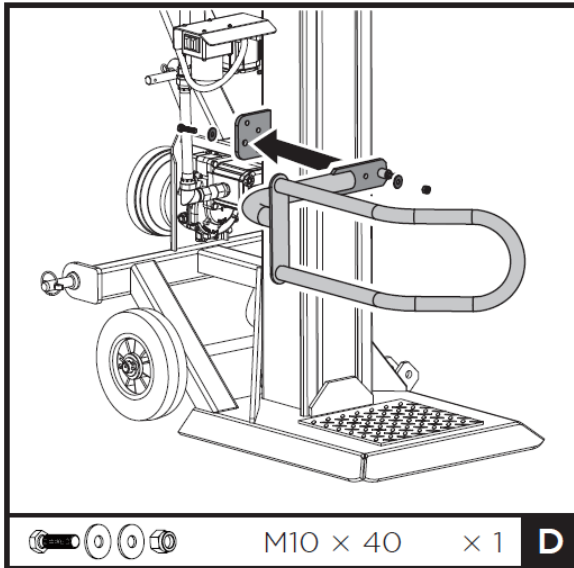
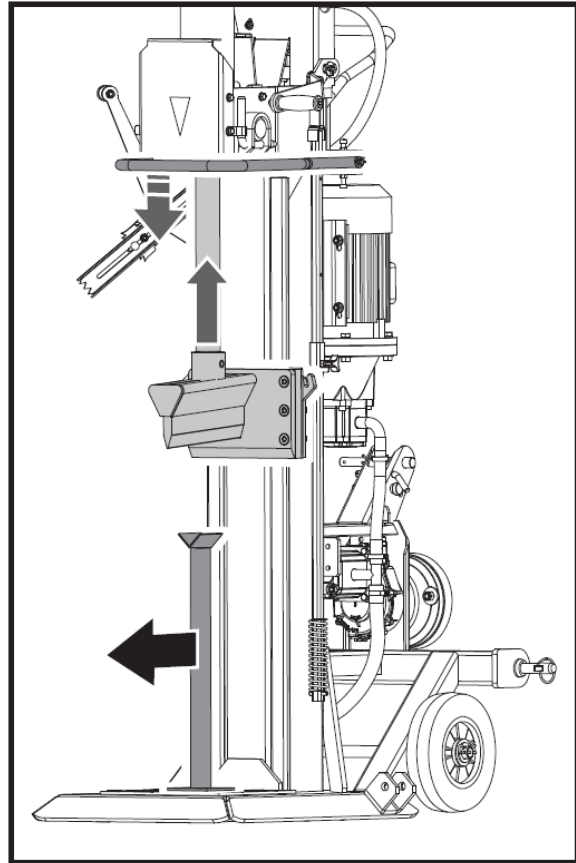
2. Attach the PTO cover to the splitter with two M10 nuts.





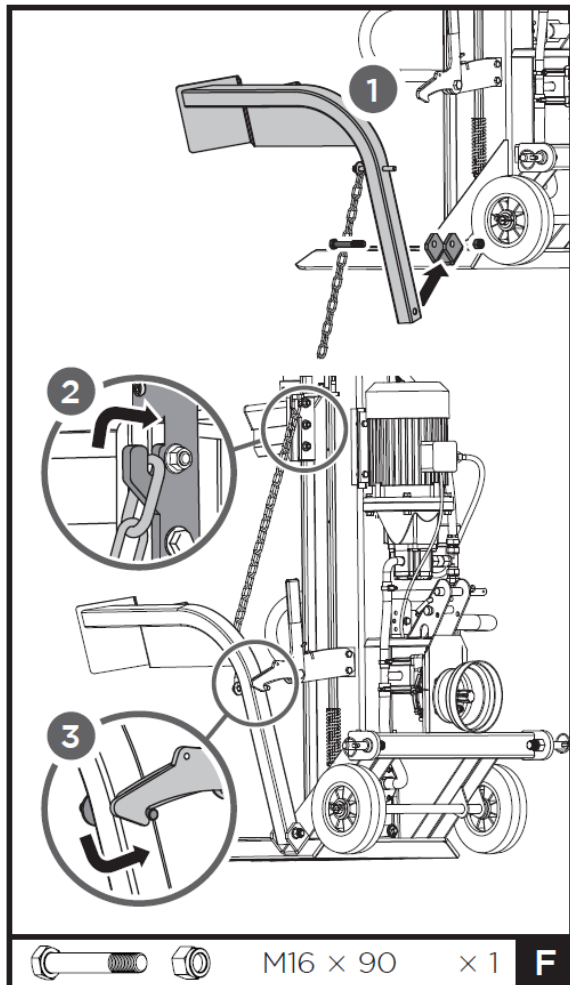
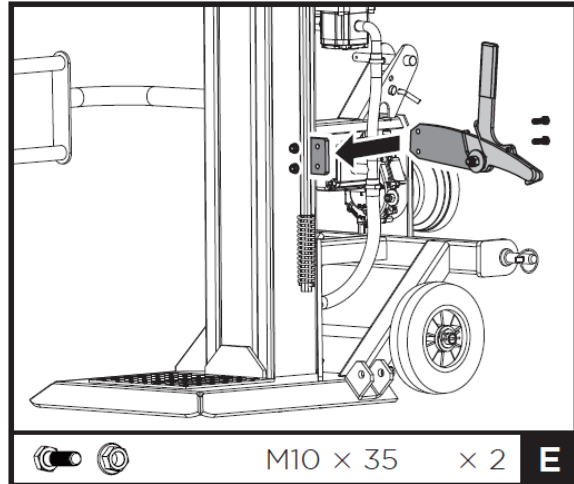
3. Keeping the support stand against the wedge, lower both control handles to expand wedge ram. Insert the L pins to secure the cylinder to the splitter. Lock the L pins into the spring tabs.

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



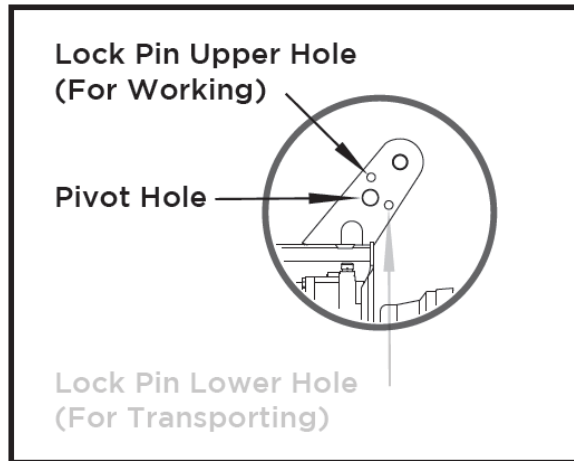
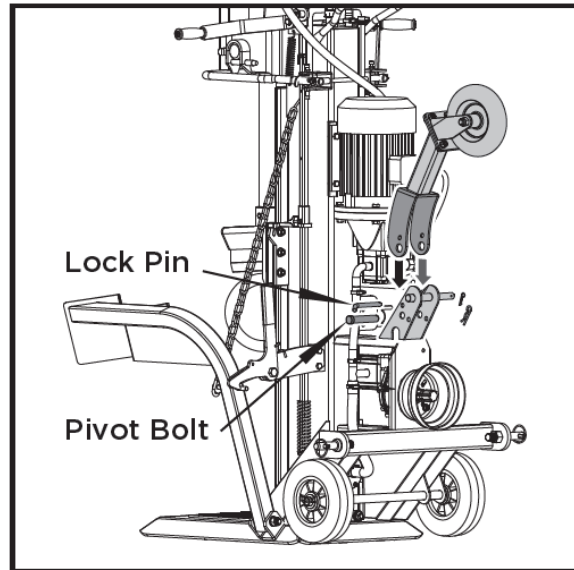
5. Align the hole and locking pin of the guard arm with the mount bracket. Secure the guard arm with an M10x40 hex bolt, two washers and a nut from the hardware bag.

6. Position the retaining hook onto the frame and secure with two M10x35 hex bolts and nuts.

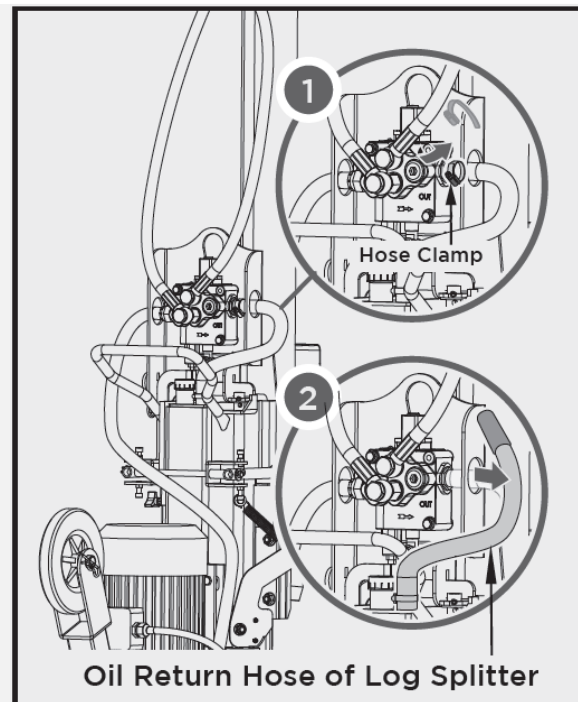


7. Position the log lift inside the mounting bracket and align with mounting bracket holes. Secure with an M16x90 hex bolt and nut. Hook the lift chain to wedge slide guide.

8. Mount the support wheel with the lock pin and pivot bolt. Insert the lock pin into the upper hole for working and insert it into the lower hole for transporting.

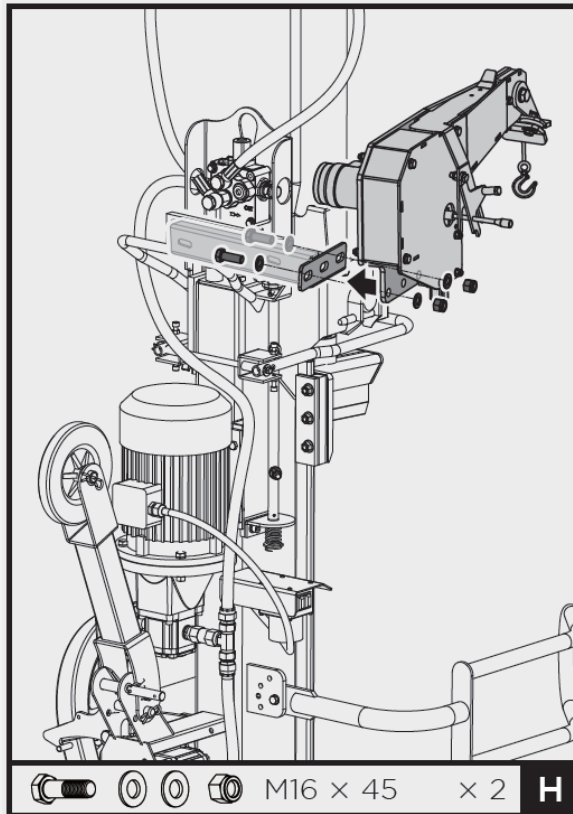
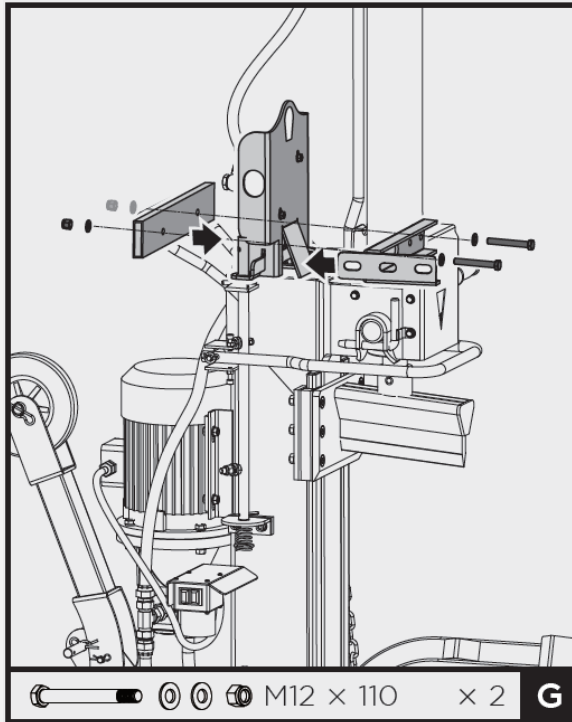


OPTIONAL WINCH ASSEMBLY



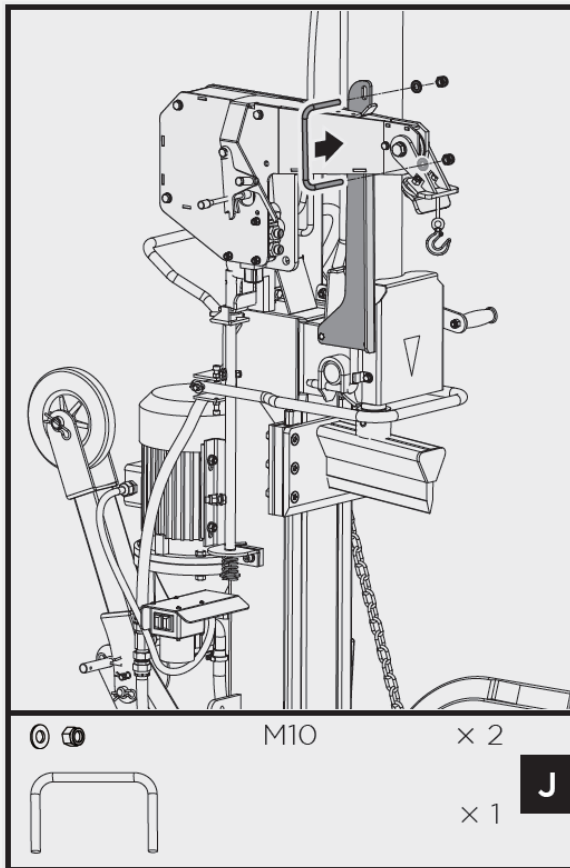
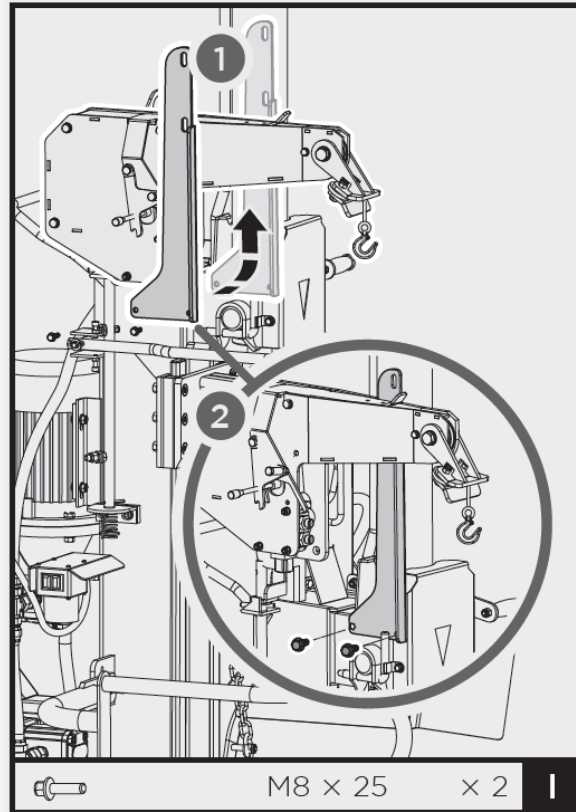
Remove the hose connector from port T of the valve and then oil return hose of log splitter.

Mount the flat pipe and the bracket to the lifting plate of the log splitter, align the holes and fix them by two M12x110 bolts, washers and nuts.



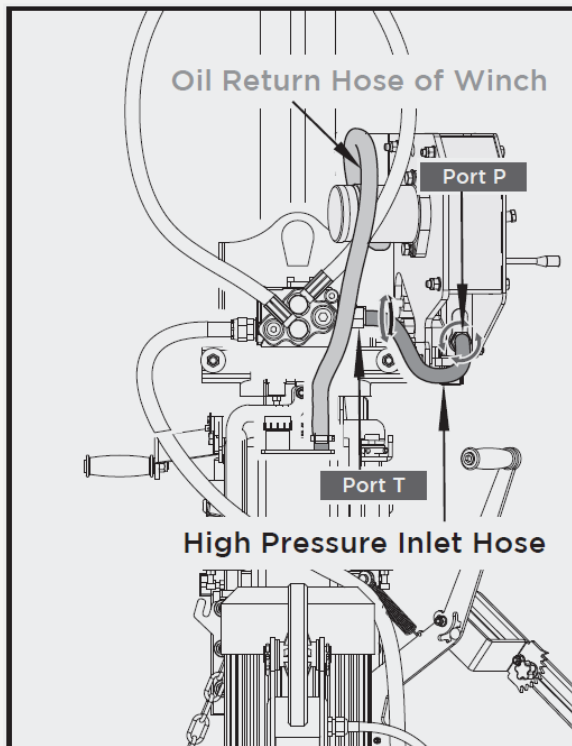
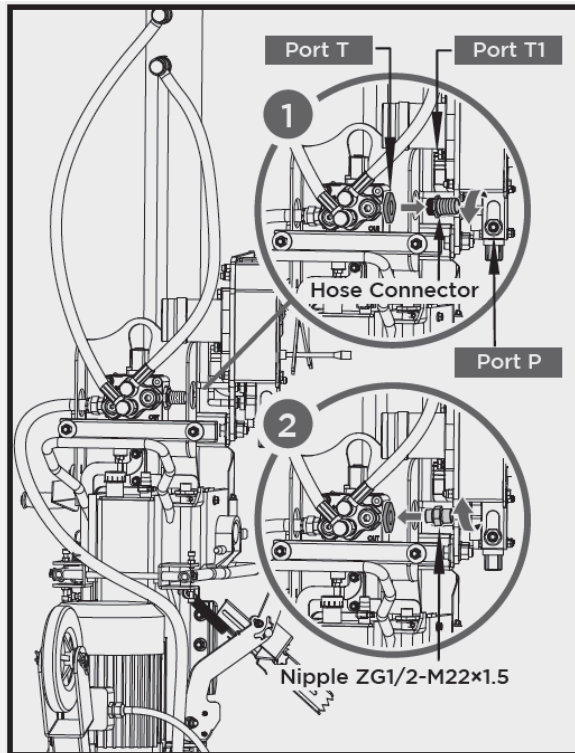
Connect the winch to the bracket by two M16x45 bolts, washers and nuts.

Fix the support plate to the bracket by two M8x25 bolts.



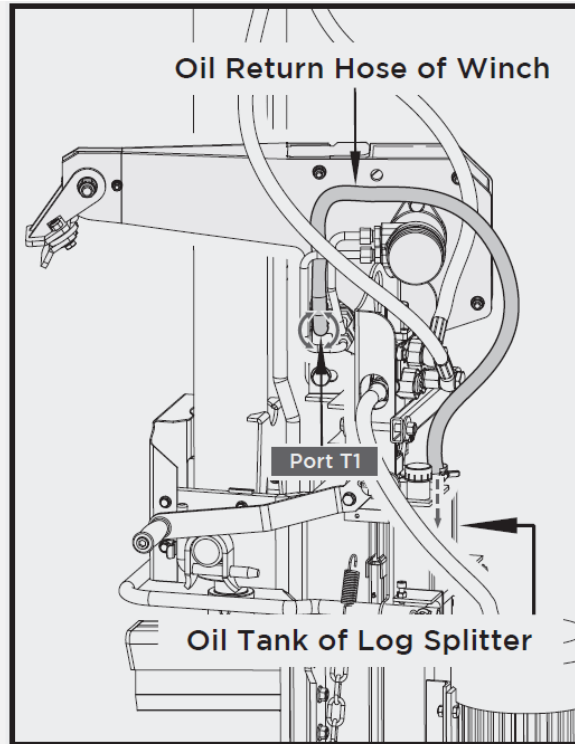
Connect the winch to the support plate by the U-Bolt with washers and nuts.

Mount nipple ZG 1/2-M22x1.5 to port T of the valve.



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

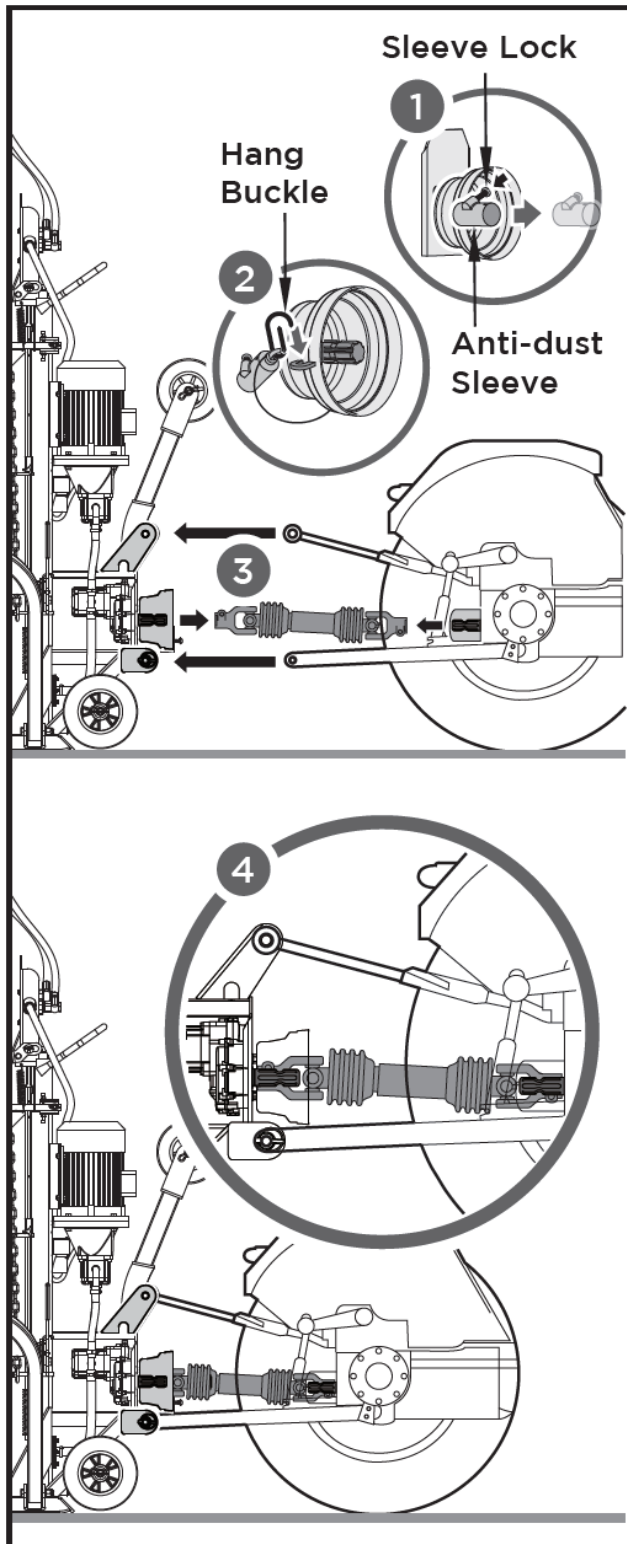
Mount one end of the oil return hose of winch to Port T1 and the other to oil tank of log splitter.



INSTALLING THE PTO DRIVESHAFT



The log splitter can be driven by a PTO driveshaft (not provided with the log splitter) that transmits torque from a tractor during normal operation. The PTO driveshaft represents extreme danger. Read and understand all of the safety and operating instructions manual that came with the PTO driveshaft.



1. Back the rear of the tractor toward the log splitter. Position the lower draft arms close enough to the splitter's hook-up pins. Apply the tractor parking brake and turn the engine off.
2. Block the rear wheels on both sides in front and back with wedges or other appropriate objects.
3. Remove the plastic self-locking sleeve of the log splitter and hang it on the PTO shield.
4. Slide the lower draft arms onto the splitter hook-up pins and secure with locking pins.
5. Position the upper draft arm inside the mounting bracket and align with the mounting bracket holes. Insert the hitch pin to secure the upper draft arm in place.

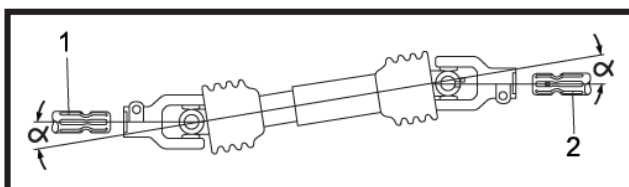


The PTO shaft end from the gearbox has a diameter of 1-3/8" (34,8 mm) and a 6-spine fitting (standard category 1 PTO).

6. Slide the PTO driveshaft over the PTO shaft ends on the gearbox and tractor respectively. Press inward on the spring pins that are located on both ends of the PTO driveshaft. Continue sliding the driveshaft over the PTO shaft ends until the spring pins pop out and lock into the detents in the PTO shaft ends.



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



7. Secure the PTO shaft safety chains to stationary parts of the log splitter and tractor to stop the guard from turning.

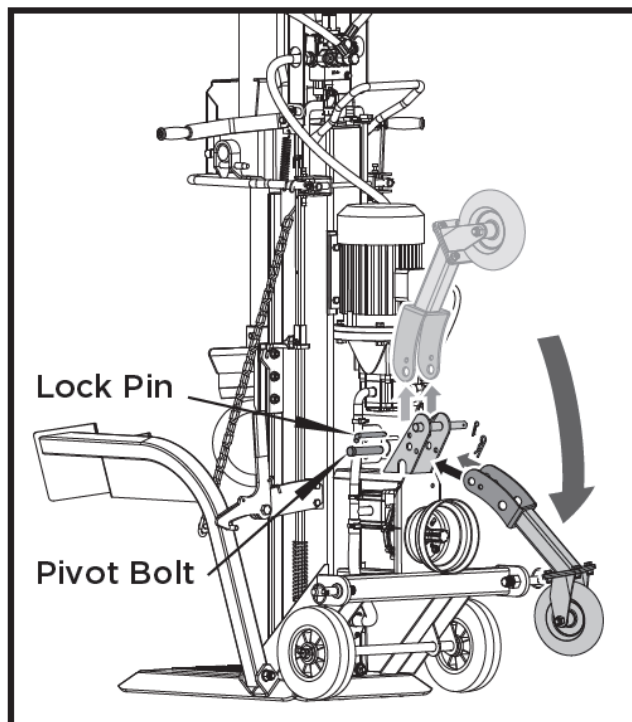
DISCONNECTING THE PTO DRIVESHAFT

1. Reduce tractor throttle to IDLE before disengaging PTO. Apply the parking brake and turn off the engine.
2. Pull up the locking pins and slide the lower draft arms of the tractor off from the splitter hook-up pins.
3. Pull up the hitch pin and slide the upper draft arm off from the mounting bracket.
4. Release the spring pins located on both ends of the driveshaft. Slide the PTO driveshaft off from the PTO shaft ends on the gearbox and tractor respectively.
5. Mount the plastic self-locking sleeve.

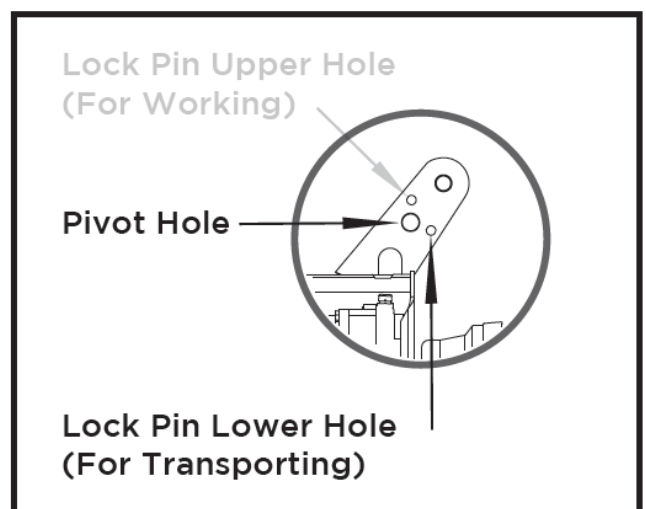


There is a motor contact device inside the self-locking sleeve. When the sleeve is removed, the motor cannot start. So the machine only works when it is connected to motor only or to PTO only.

TRANSPORT



Pull out the lock pin, turn down the support wheel to the transporting position and then insert the lock pin to the lower hole and fix it by the R-pin.



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



Allow for added length in driving situations, e.g., when turning, parking, and crossing intersections.

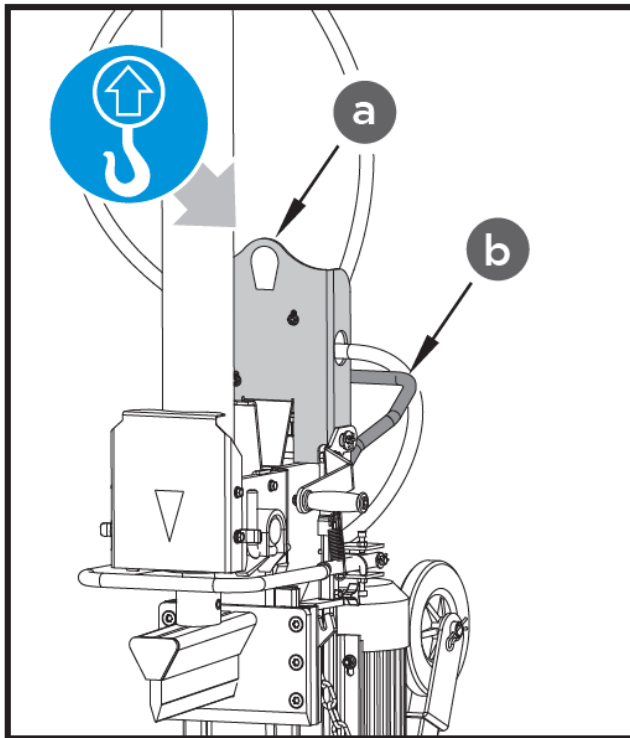


Before transporting, be certain the log splitter is correctly and securely attached to the tractor and the safe chains of the PTO are in place.

Make sure the log splitter is raised high enough to clear all obstacles during transportation.

Never transport the log splitter with the PTO engaged.

DELIVERING LOG SPLITTER TO WORK SITE



The log splitter is equipped with 2 wheels for minor moving. To move the log splitter to the work site, grip the handle (b) to tilt the log splitter slightly after making sure the oil tank cover is tightened.



If using a crane, lay hoist sling at the lifting point (a). Never try to lift the log splitter at the Handle (b).

SPLITTER OPERATION

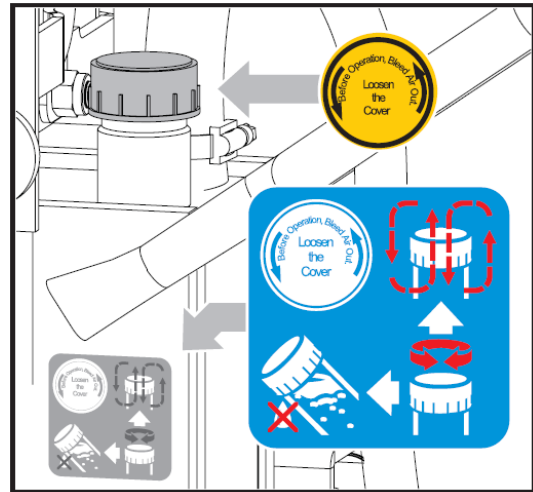
Plan your work site. Work safely and save effort by planning your work beforehand. Have your logs positioned where they can be easily reached. Have a site located to stack the split wood or load it onto a nearby truck or another carrier. Position the log splitter on solid level ground.

Apply a thin coat of grease to the surfaces of the ram before operation will lengthen the durability of the ram.

Bleed the air out of the hydraulic system before starting the log splitter. The cover of the hydraulic oil tank should be loosened by some rotations until air can go in and out of the oil tank smoothly.

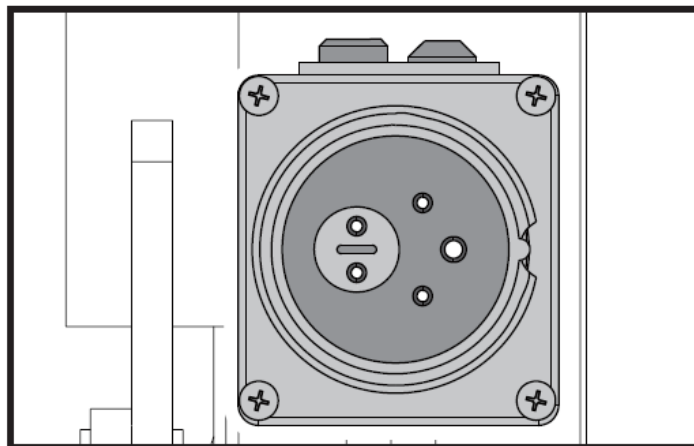
Air flow thru the oil tank filler should be detectable during the operations.

Before moving the log splitter, make sure the cover of the oil tank is tightened to avoid oil leaking from this point.



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

Turn the motor switch to the ON position to start the log splitter. To stop the machine, just turn the motor switch to the OFF position.



Make sure the direction of motor rotation is correct. Turn the motor on; the wedge ram should rise to the highest position automatically. If the wedge ram is already at the highest position when the motor starts, grip both control levers and lower them, the wedge ram should start to move downward.

If no ram motion is detected after the motor starts, power off the motor immediately to change motor polarity by turning the pole switching device inside the plug with a screwdriver.

**400 V 3N**

Never allow motor running at counter direction. This will damage the pump and will void the warranty.

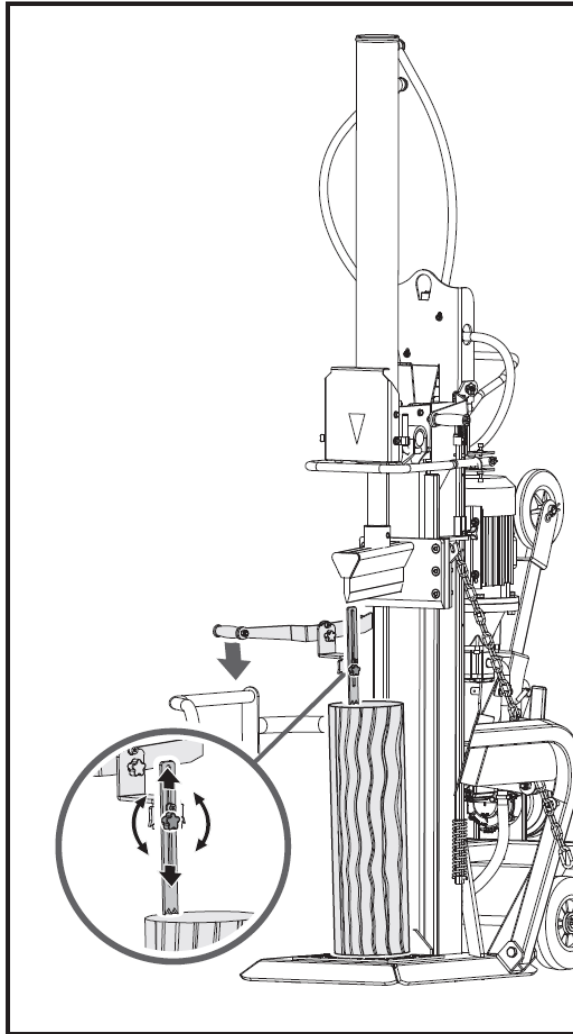
The PTO of the tractor can power a separate hydraulic pump on the log splitter to perform the function of splitting logs. Set tractor throttle at IDLE before engaging PTO with log splitter attached. Increase tractor throttle to RUN RPMs required to obtain 540 rpm PTO speed before splitting. Reduce tractor throttle to IDLE before disengaging PTO.



Danger of log splitter tipping due to torque resulting during operating, causing serious injuries and damage. Log splitter must be secured by using 3-point attachment to tractor. Tractor hydraulics makes the log splitter secure against tipping over during operation, and yet allows it to be moved easily.

Always ensure parking brake is engaged on tractor and the rear wheels are blocked with wheel chocks both sides in front and back.

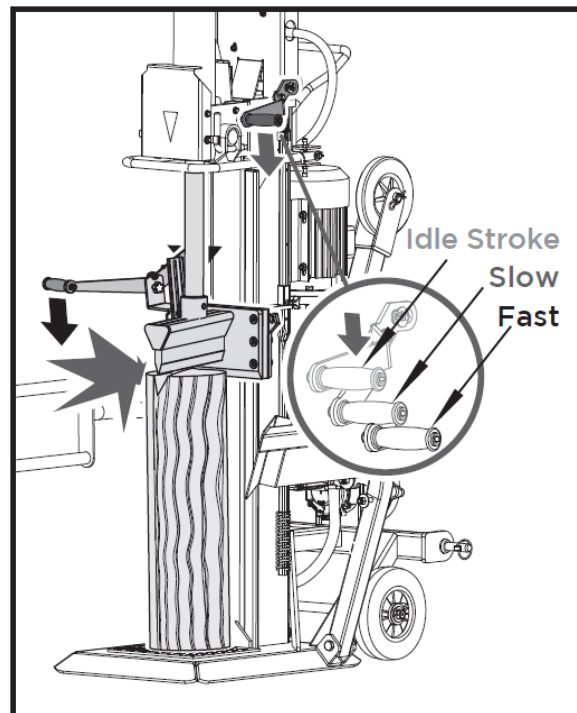
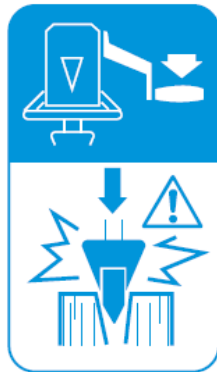
Splitting

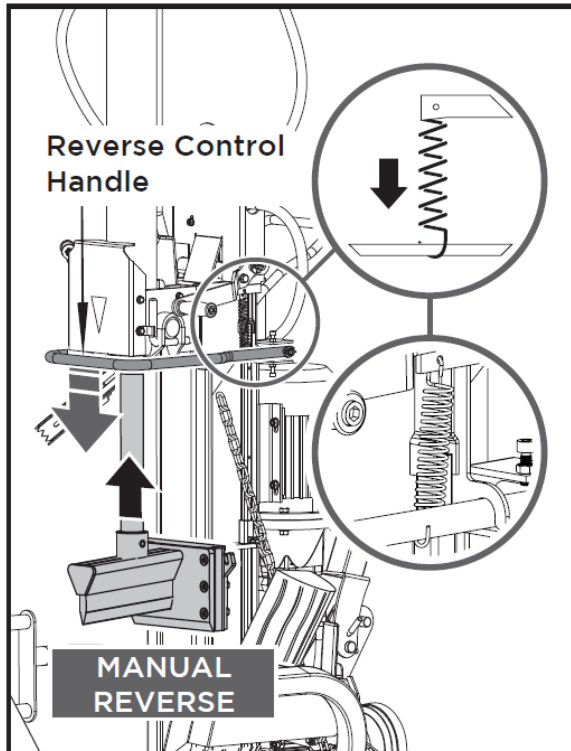


1. Place the log vertically on the support table, so that it lies flat on its face. Press the left lever to lower the extended log fixing claw against the log to secure it. The extended log fixing claw can be adjusted to fit logs with different heights.

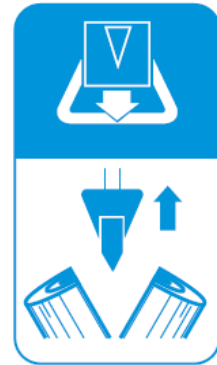


2. Hold the left press lever. Meanwhile, move the splitter wedge down by pressing the right splitting lever to the half stroke to split the log slowly first and then press it to the end until the log is completely split.



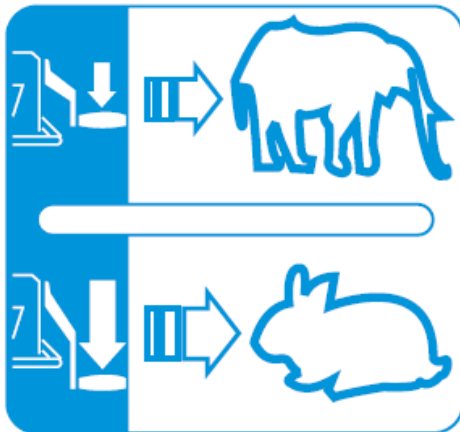


- Return the splitter wedge to the starting position. Operate the spring-loaded retract control lever to lift wedge above the height of log to be split.



The spring is already connected to the handle in factory.

Splitting Lever



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

The first half stroke of the splitting lever is idle speed; press the splitting lever to the half stroke for maximum splitting force at slower speed to split the log at the beginning or particularly hard and seasoned logs.

Press the splitting lever to the end for faster speed at less splitting force to finish the splitting or to split usual logs.

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



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



Break log in the direction of its growing grain. Do not place log across the log splitter for splitting. It may be dangerous and may seriously damage the machine.



Do not remove jammed logs with your hands. Never use another person to help you with freeing jammed log.

Stack as you work. This will provide a safer work area, by keeping it uncluttered, and avoid the danger of tripping, or damaging the power cord.



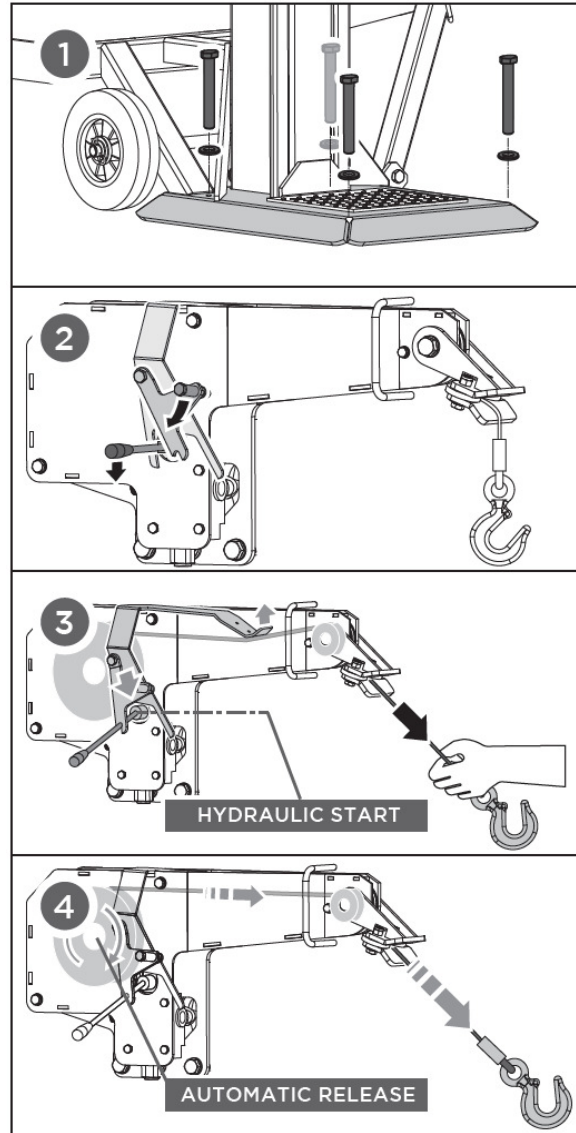
Accumulated split wood and wood chips can create a hazardous work environment. Never continue to work in a cluttered work area which may cause you to slip, trip or fall.

Optional Winch Operation

The accessory hydraulic winch makes it simple and efficient in processing heavy logs.

Release the Wire Rope

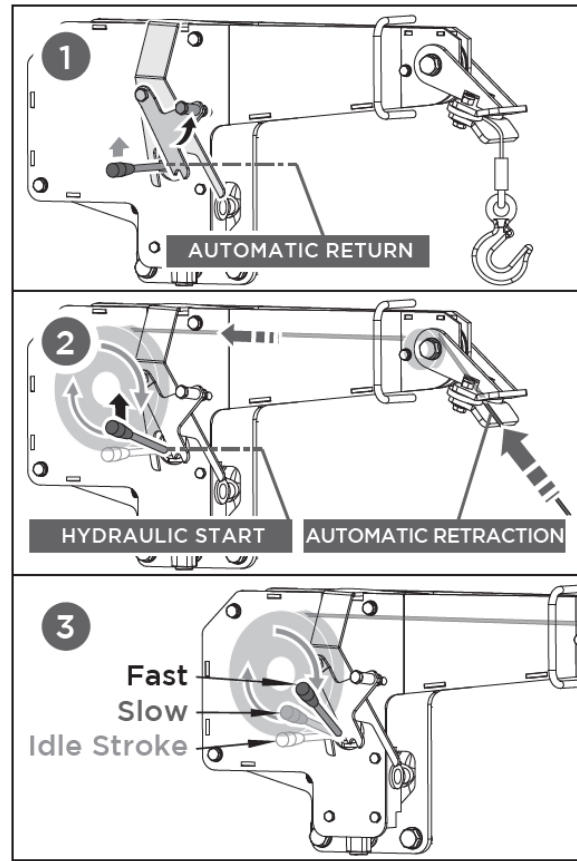
1. Bolt the base to the ground to make it stable.
2. Press down the valve handle and turn the limit plate to hold the handle in the arc.
3. Pull out the wire rope a little to force the reversing valve to start the driving motor. Then the wire rope can be released automatically.
4. When the wire rope is released to the end, the reversing valve returns to the original position and the driving motor stops working.



Do not press down the valve handle when the wire rope is released to the end! Or else, the wire rope will be retracted!

Retract the Wire Rope

1. Press down the valve handle and turn the limit plate to release the handle from the arc.
2. Push up the valve handle to retract the wire rope. The angle of pushing controls the retracting 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 rope bracket to avoid over retracting!

FREE A JAMMED LOG

Do not remove jammed logs with your hands. If jammed, stop the motor and loosen the log by a downward stroke on the log with a hammer.

REPLACING OIL

The hydraulic system is a closed system with oil tank, oil pump and control valve. Low oil levels can damage the oil pump. Check oil level regularly with dipstick. The oil should be completely changed once a year.

Following hydraulic oils or equivalent are recommend for the log splitter's hydraulic transmission system:

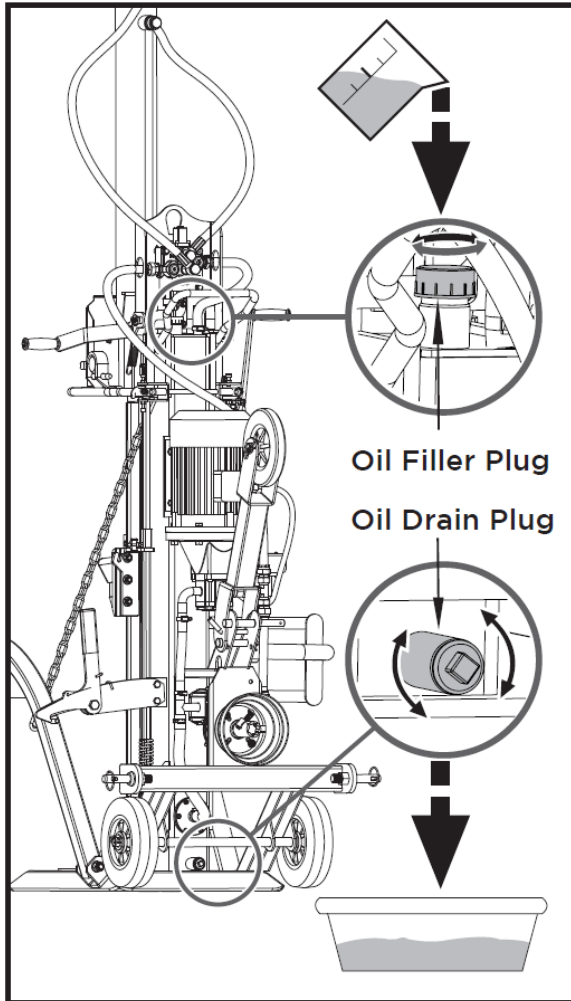
SHELL Tellus 22

MOBIL DTE 11

ARAL Vitam GF 22

BP Energol HLP-HM 22

Mogul/Paramo OTHP 3



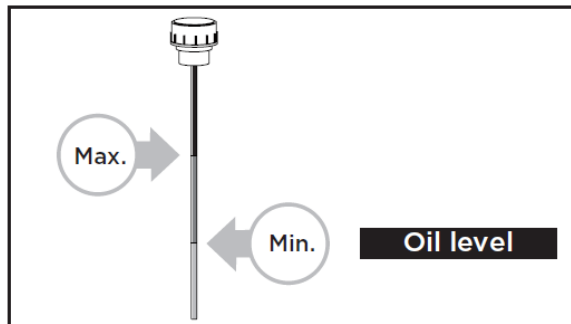
Make sure moving parts stop and the log splitter is unplugged and PTO driveshaft is disconnected.

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

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

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

Add the hydraulic transmission system with recommended oil through filler plug opening.



Read dipstick to determine the maximum and minimum of the oil level. Low oil can damage the oil pump. Overfilling can result in excessive temperature in the hydraulic transmission system.

Apply sealant to filler plug and reinstall it.

Following an oil change, activate the log splitter a few times without actually splitting.

SHARPENING WEDGE

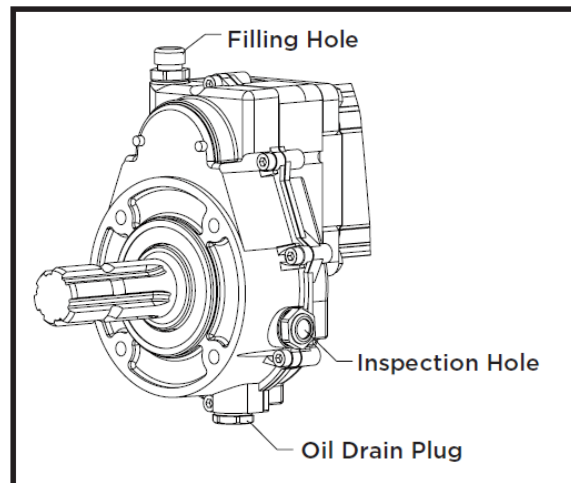
This log splitter is equipped with reinforced splitting wedge which blade is specially treated. After long periods of operation, and when required, sharpen the wedge using a fine-toothed file removing any burrs or flat spots on the edge.

GEARBOX LUBRICATION

The gearbox is pre-serviced using SAE 90 gear oil. Drain the gear oil after first 25 hours of use and refill with fresh oil as specified. Then change after every 250 hours of use or every six months, whichever is earlier.

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

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



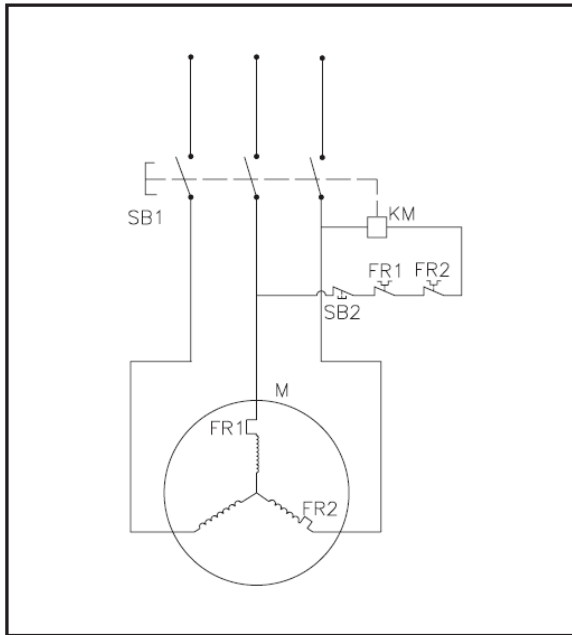
TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	REMEDY SUGGESTED
Motor does not start	Switch is OFF	ON the switch
Incorrect motor rotation direction	Incorrect connection	Change pole switching device in the plug with a screwdriver
		Reverse polarity by electrician
Log Splitter does not work while motor running	Valve is not opened owing to the connection parts loosening	Check and tighten the parts
	Control Levers or connection parts bent	Repair the bent parts
	Lower hydraulic oil level	Check and refill hydraulic oil
Log Splitter works with abnormal vibration and noise	Lower hydraulic oil level	Check and refill hydraulic oil

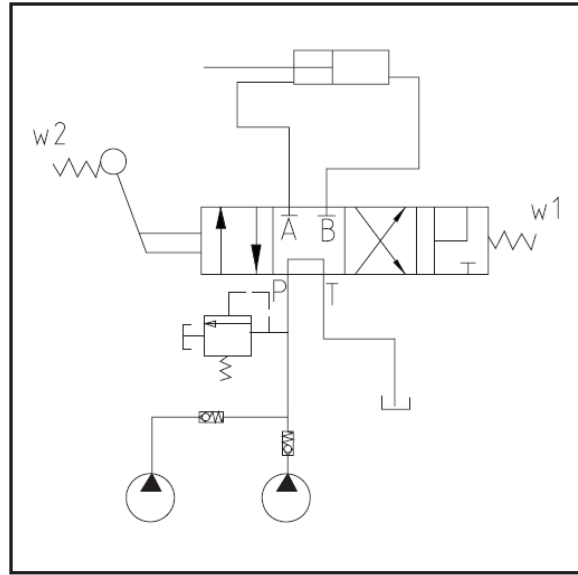


ATTENTION: ALL REPAIR WORK MUST BE DONE BY A SPECIALIST FOR THIS PRODUCT.

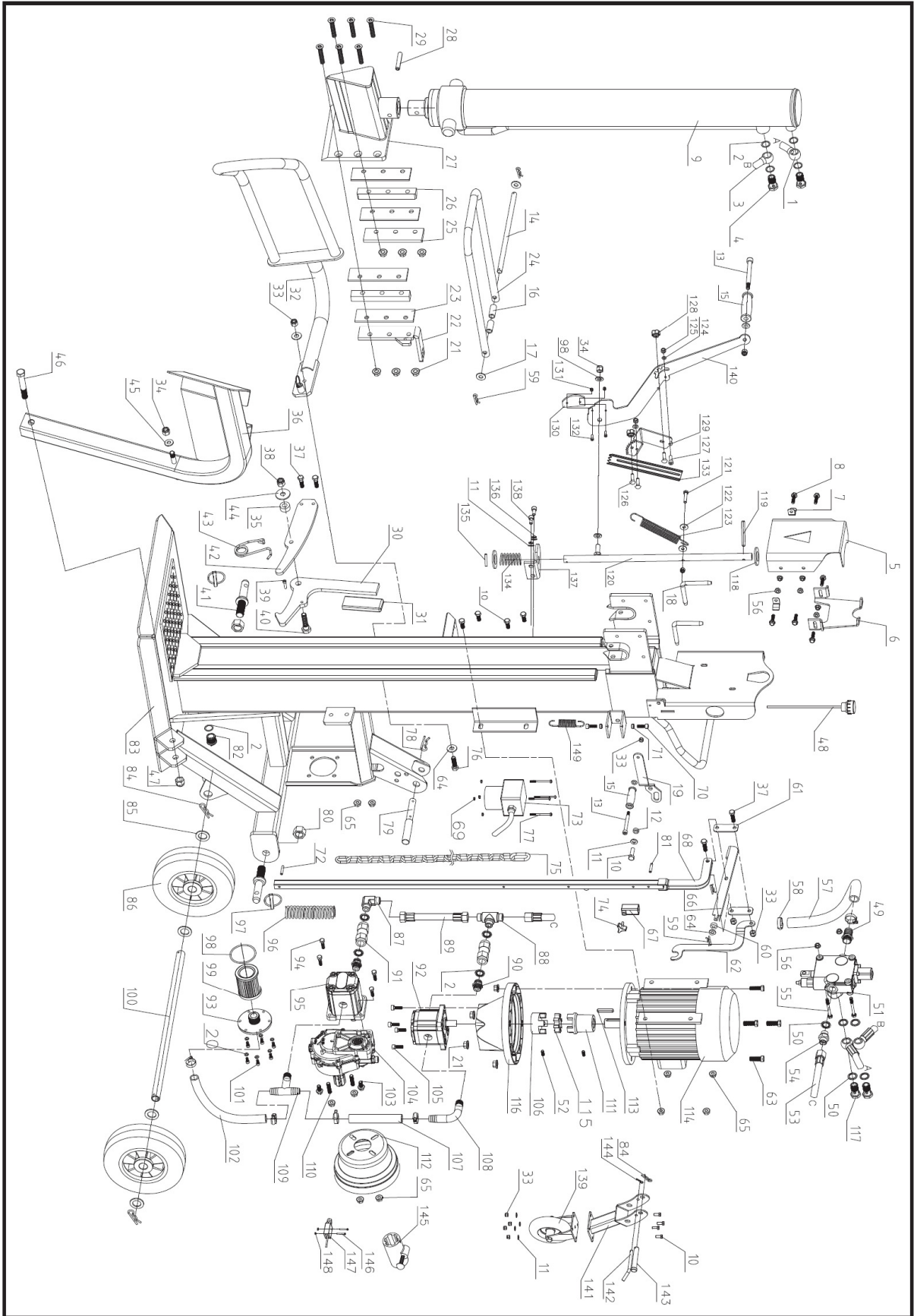
WIRING DIAGRAM



HYDRAULIC SYSTEM DIAGRAM

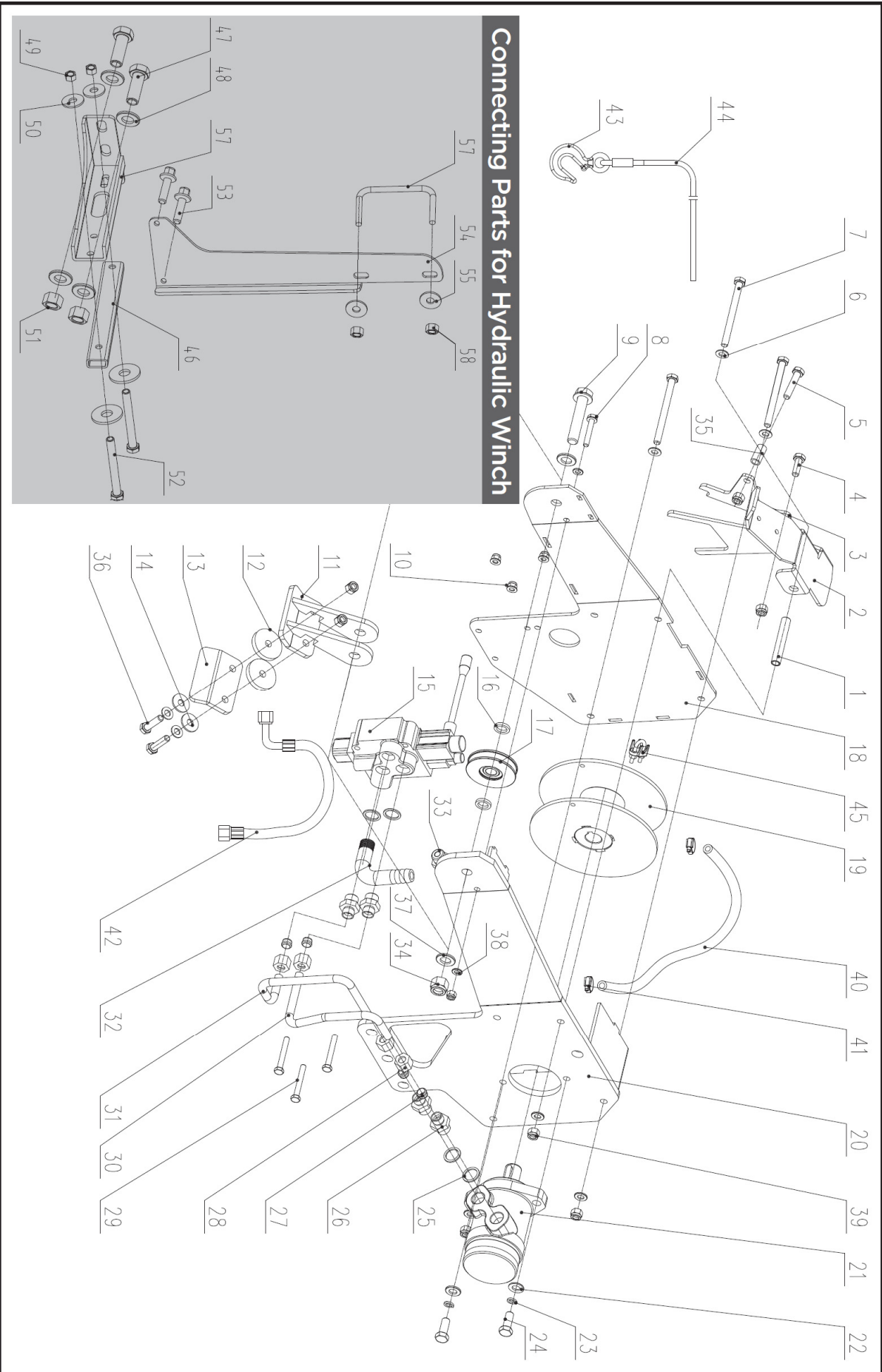


PART LIST



Pos.	Part No.	Name	Pcs	Pos.	Part No.	Name	Pcs
1	222001	Upper high pressure hose	1	41	222041	Pin	2
2	222002	Seal kit 22	9	42	222042	Locating plate	1
3	222003	Lower high pressure hose	1	43	222043	Reset torsion spring	1
4	222004	Hose link	2	44	222044	Washer 14	1
5	222005	Upper guard	1	45	222045	Big washer 12	1
6	222006	Cylinder lock plate	1	46	222046	Bolt M16x90	1
7	222007	Pin holder	2	47	222047	Nut M16	1
8	222008	Bolt M8x25	6	48	222048	Oil dipstick	1
9	222009	Cylinder	1	49	222049	Hose connector	1
10	222010	Bolt M10x25	9	50	222050	Sealing kit 20	5
11	222011	Washer 10	7	51	222051	Valve	1
12	222012	Sleeve 2	1	52	222052	Screw M6x15	2
13	222013	Bolt	2	53	222053	High pressure hose 2 D12	1
14	222014	Shaft	1	54	222054	Nipple M20x1,5 - M22x1,5	1
15	222015	Grip	2	55	222055	Bolt M8x65	2
16	222016	Sleeve	2	56	222056	Nut M8	8
17	222017	Flat washer 12	2	57	222057	Oil return hose	1
18	222018	Cylinder pin	2	58	222058	Hose clamp	6
19	222019	Right operating lever	1	59	222059	Pin 3	2
20	222020	Flat washer 6	6	60	222060	Round plate	1
21	222021	Flange nut M12	10	61	222061	Valve connecting plate	2
22	222022	Right plate	1	62	222062	Limit plate	1
23	222023	Friction plate	4	63	222063	Bolt M12x45	4
24	222024	Control U-handle	1	64	222064	Big washer 10	2
25	222025	Left plate	1	65	222065	Nut M10	13
26	222026	Baffle plate	2	66	222066	Pressing plate	1
27	222027	Wedge weldment	1	67	222067	Adjusting plate	1
28	222028	Pin 12x70	1	68	222068	Pull rod	1
29	222029	Screw M12x70	6	69	222069	Nut M4	4
30	222030	Retaining hook	1	70	222070	Screw M8x25	4
31	222031	Grip	1	71	222071	Nut M8	4
32	222032	Guard bracket left	1	72	222072	Pin 6x45	1
33	222033	Locknut M10	9	73	222073	Switch	1
34	222034	Locknut M12	2	74	222074	Knob	1
35	222035	Locating sleeve	1	75	222075	Hoist chain	1
36	222036	Hoist guard	1	76	222076	Bolt M10x40	1
37	222037	Bolt M10x35	4	77	222077	Screw M4x60	4
38	222038	Nut M14	1	78	222078	R-pin	1
39	222039	Screw M6x10	1	79	222079	Pin	1
40	222040	Screw	1	80	222080	Nut M22x1,5	2

Pos.	Part No.	Name	Pcs	Pos.	Part No.	Name	Pcs
81	222081	Pin 6x35	1	116	222116	Pump bracket	1
82	222082	Screwed plug	1	117	222117	Valve connector	2
83	222083	Main frame	1	118	222118	Flat washer 22	2
84	222084	R-pin	3	119	222119	Cylindrical pin 8x70	1
85	222085	Washer 24	4	120	222120	Adjusting bar	1
86	222086	Wheel 10"	2	121	222121	Bolt M8x45	1
87	222087	High pressure elbow part	1	122	222122	Flat washer 8	2
88	222088	High pressure T-connector	1	123	222123	Reset tension spring	1
89	222089	High pressure hose 1	1	124	222124	Washer 8	4
90	222090	Nipple Zg 1/2-M22x1,5	2	125	222125	Locknut M8	3
91	222091	One-way valve D=12	2	126	222126	Bolt 8x20	2
92	222092	Gear pump 1	1	127	222127	Bolt 8x20	2
93	222093	Flange plate	1	128	222128	Adjusting knob M8	2
94	222094	Bolt M8x30	4	129	222129	Log fixing claw	1
95	222095	Gear pump 2	1	130	222130	Cam friction pad	1
96	222096	Spring	1	131	222131	Locknut M5	2
97	222097	Elastic ring pin assy	2	132	222132	Bolt M5x16	2
98	222098	O-ring 81x3,1	1	133	222133	Extended log fixing claw	1
99	222099	Oil filter	1	134	222134	Reset spring	1
100	222100	Wheel axle	1	135	222135	Cylindrical pin 5x35	1
101	222101	Screw M6x14	6	136	222136	Spring washer 10	2
102	222102	Suction hose 1	1	137	222137	Support plate	1
103	222103	Bolt M10x20	2	138	222138	Bolt M10x20	2
104	222104	Accelerator	1	139	222139	Support wheel	1
105	222105	Screw M8x30	4	140	222140	Pressing lever	1
106	222106	Coupler 1	1	141	222141	Support arm	1
107	222107	Suction hose 2	1	142	222142	Pin 12	1
108	222108	Low pressure elbow part	1	143	222143	Rotating shaft	1
109	222109	Low pressure T-connector	1	144	222144	R-pin	1
110	222110	Set screw M10x40	2	145	222145	Shaft guard	1
111	222111	Coupler 2	1	146	222146	Screw 3x25	2
112	222112	Spline shaft sheath	1	147	222147	Microswitch	1
113	222113	Key 8x50	1	148	222148	Nut M3	2
114	222114	Motor	1	149	222149	Spring	1
115	222115	Coupling rubber ring	1				



Connecting Parts for Hydraulic Winch

Pos.	Part No.	Name	Pcs	Pos.	Part No.	Name	Pcs
1	218135	Long bush	1	30	218164	Hose 2	1
2	218136	Rope pressing plate	1	31	218165	Hose 1	1
3	218137	Limit plate	2	32	218166	Low pressure elbow part	1
4	218138	Bolt M10x30	1	33	218167	Nipple ZG1/2-M22x1,5	1
5	218139	Bolt M10x50	1	34	218168	Locknut M16	1
6	218140	Washer 10	8	35	218169	Bush	1
7	218141	Bolt M10x120	3	36	218170	Bolt M10x45	2
8	218142	Bolt M8x50	1	37	218171	Washer 16	2
9	218143	Bolt M16x85	1	38	218172	Washer 8	2
10	218144	Locknut M8	4	39	218173	Locknut M10	7
11	218145	Rope bracket	1	40	218174	Oil return hose	1
12	218146	Pulley plate	2	41	218175	Hose hoop	2
13	218147	Pressing plate	1	42	218176	Oil inlet hose	1
14	218148	Flat washer 10	2	43	218177	Hook 1T	1
15	218149	Hydraulic valve	1	44	218178	Rope 6x19,5M	1
16	218150	Bush	2	45	218179	Rope buckle	1
17	218151	Pulley	1	46	218180	Flat pipe	1
18	218152	Support plate 2	1	47	218181	Bolt M16x45	2
19	218153	Roller	1	48	218182	Washer 16	4
20	218154	Support plate 1	1	49	218183	Nut M12	2
21	218155	Hydraulic motor	1	50	218184	Flat washer 12	4
22	218156	Washer 12	2	51	218185	Nut M16	2
23	218157	Spring washer 12	2	52	218186	Bolt M12x110	2
24	218158	Bolt M12x30	2	53	218187	Flange bolt M8x25	2
25	218159	Sealing kit G1/2	4	54	218188	Support plate	1
26	218160	Nipple G1/2-M18x1,5	4	55	218189	Flat washer 10	2
27	218161	Lock ring	4	56	218190	U-bolt	1
28	218162	Lock nut	4	57	218191	Fixing plate	1
29	218163	Bolt M8x55	3	58	218192	Nut M10	2

DISPOSAL OF PACKAGING AND MACHINE AFTER THE END OF SERVICE LIFE

After unpacking the machine, you are obliged to provide for the disposal of packaging material with taking into account the use of secondary raw materials according to the legislation valid in your country and with respect to the decrees of local town or municipal authorities.

The following procedure is recommended for machine disposal after the end of its service life:

1. Dismount all parts from the machine that can still be used.
2. Dismount plastic machine parts and parts made of non-ferrous metals. The dismantled machine remainder and the dismantled parts are to be disposed

according to the legislation valid in your country and with respect to the decrees of local town or municipal authorities.

3. Regarding waste from the electrical device, use the opportunity of **return buy-out** in the shop, where you purchased the device (**points 1 and 2 are not valid in this case**).
4. The machine is in accordance with the RoHS Directive (2002/95/EC, 2002/96/EC, 2003/108/EC).
5. The product is in accordance with the requirements of the above-mentioned EC Directive regarding the quantities of forbidden dangerous substances.



This pictograph means that the product was introduced on the market after 13th September 2005 and shall not be disposed to a waste container or a dustbin.

INSTRUCTIONS FOR ORDERING SPARE PARTS

The following data are to be used for an easier identification when ordering the spare parts:

1. Machine type, engine type, machine serial number and year of manufacture;
2. Ordering number given by manufacturer and its name in the part list;
3. Number of ordered pieces separately for each item;
4. Precise address, telephone number, fax number or e-mail address;
5. Should you be uncertain about the correct identification of the component, send the damaged component either to the nearest service shop or directly to the manufacturer;
6. All components should be ordered in the nearest service shop or at your dealer's.

In the case of any confusions concerning the spare parts or technical issues, the VARI a.s. commercial, customer-service or technical departments are prepared to answer all your inquiries.

ADDRESS OF THE MANUFACTURER

TIYA Hydraulics Co., Ltd., Fuqian Street North, Gaoze, 262300 Wulian, Shandong, P. R. China; TIYA Hydraulics Co., Ltd. is a production facility of TIYA International Co., Ltd.

ADDRESS OF THE IMPORTER AND DISTRIBUTOR

VARI, a.s.	phone:	(+420) 325 637 276
Opolanska 350	fax:	(+420) 325 607 264
Libice nad Cidlinou	e-mail:	vari@vari.cz
CZECH REPUBLIC	internet:	http://www.vari.cz/
289 07		

EC DECLARATION OF CONFORMITY¹

We herewith declare

that the following machine complies with the appropriate basic safety and health requirements of the EC Directive based on its design and type, as brought into circulation by us.

In case of alteration of the machine, not agreed by us, this declaration will lose its validity.

Description: Log Splitter
Type: 65682
Test report No.: 705201136302-02 & 50178201 001

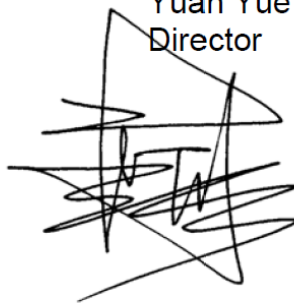
Applicable EC Directives: EC Directive of Machinery 2006/42/EC
EC Low Voltage Directive 2014/35/EU
EC Council Directive 2014/30/EU Electromagnetic
Compatibility

Applicable Harmonized Standards: EN 60204-1:2006+A1:2009
EN 609-1:2017
EN 55014-1:2017
EN 55014-2:2015
EN 61000-3-2:2014
EN 61000-3-3:2013

Name of Company: TIYA International Co., Ltd.
Address: B12B, Shenye Center, 9 Shandong Road,
Qingdao, China
Tel: (532) 8582 3333
Fax: (532) 8582 4444

Name / Title: Yuan Yue
Director

Signature:



Place / Date: Qingdao, China / April 24, 2019

¹ The original declaration of conformity as issued by the manufacturer of the product.