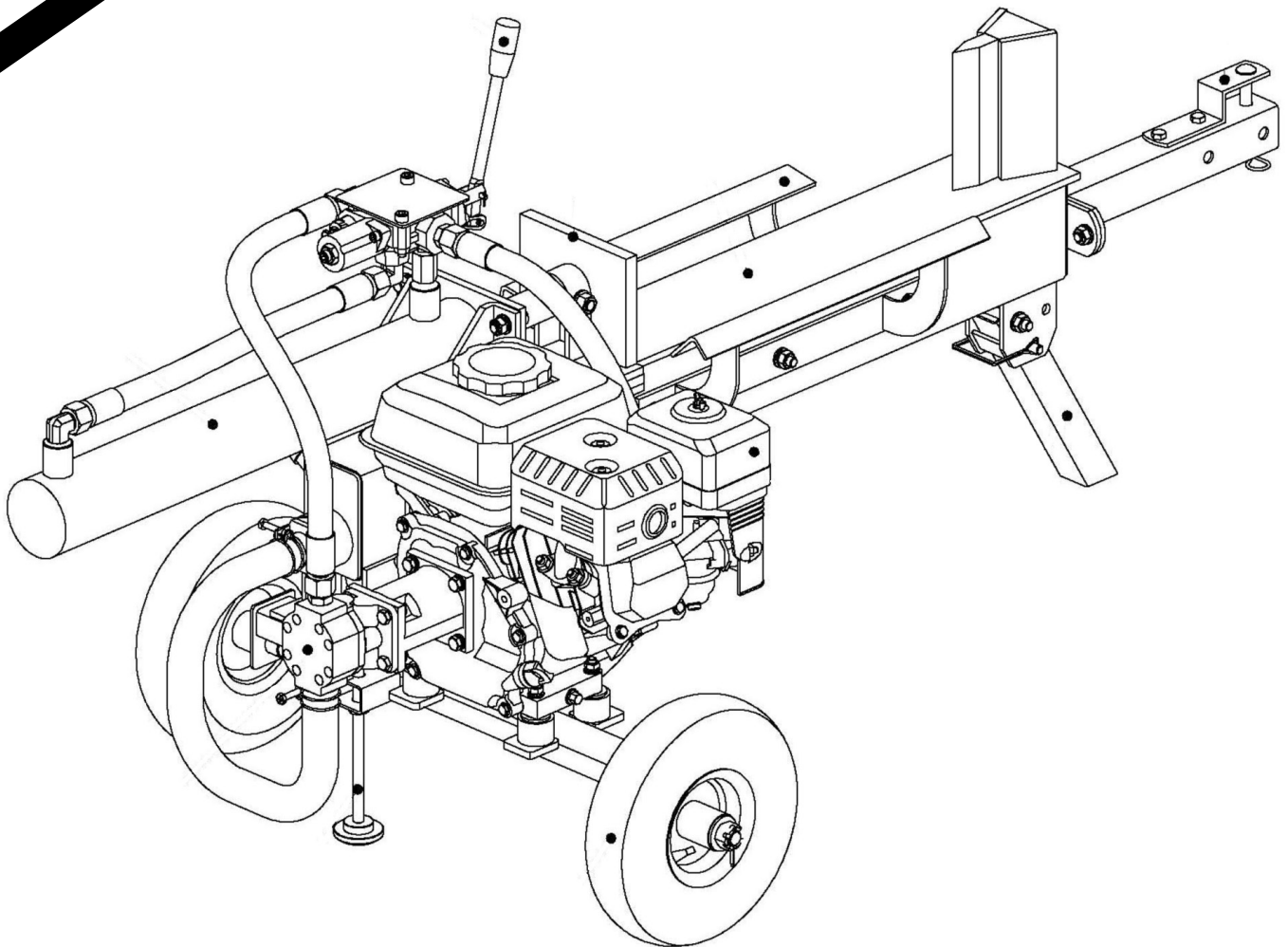


596827 PETROL LOG SPLITTER 18 TONNE

TOOLEX[®]
Industrial



READ THROUGH AND CAREFULLY UNDERSTAND
THESE INSTRUCTIONS BEFORE USING THIS TOOL



INSTRUCTION MANUAL


CONSUMER SERVICE CENTRE
PO BOX 1012
HAMILTON NSW 2303 AUSTRALIA
Made in P.R.C.

18TON LOG SPLITTER

Owner's Manual

Log splitter: Outdoor product that splits wood logs for use as fuel in a fireplace or a woodstove.

	 WARNING
	<p>Read this manual.</p> <p>Serious injury or death can result if safety instructions are not followed.</p>

	<p>Engine is shipped without oil.</p> <ul style="list-style-type: none">-Before starting engine, fill with SAE 10W-30 motor oil.-See engine manual for engine oil capacity.
	<p>Hydraulic Oil Tank is shipped with oil.</p> <ul style="list-style-type: none">-When adding oil, Verify oil level is 30mm from top of hydraulic reservoir (not including fill neck).- Use 68 Grade Hydraulic Oil to top up. Never use motor vehicle brake fluid. <p>Closely inspect all log splitter components.</p> <ul style="list-style-type: none">- If you have damaged components then: contact the freight company that delivered the unit and file a claim.

Hazard Signal Word Definitions













	<p>This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.</p>
	<p>DANGER (red) indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.</p>
	<p>WARNING(orange) indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.</p>
	<p>CAUTION(yellow) indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.</p>
<p>CAUTION</p>	<p>CAUTION(yellow) used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.</p>

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Important safety Rules

   	<div data-bbox="719 100 805 174" data-label="Image"></div> <div data-bbox="842 129 1085 174" data-label="Section-Header"><h2>WARNING</h2></div> <p>1.) Read this manual completely.</p> <p>Serious injury or death can result if safety instructions are not followed. Everyone who operates the log splitter must read and completely understand all safety rules, operating instructions, and maintenance instructions.</p> <p>You must be 16 or older to operate this machine. Keep untrained people away.</p> <ul style="list-style-type: none"> -Shut engine off before leaving log splitter unattended. <p>2.) Crush Hazard.</p> <p>Wedge can cut through skin and break bones. Keep both hands away from wedge and endplate.</p> <ul style="list-style-type: none"> -Serious accidents can happen when other people are allowed inside the work zone. Keep everyone else out of the work zone while operating control valve. -Do not wear loose clothing. It can get tangled in moving parts of log splitter. -Only use the log splitter in daylight so you can see what you are doing. <p>3.) Flying objects.</p> <p>Pieces of log may fly out while splitting. Wear safety glasses. Serious eye injury can occur.</p> <p>4.) Skin injection hazard.</p> <p>High pressure fluid can inject under skin resulting in serious injury including amputation.</p> <ul style="list-style-type: none"> -Make sure all fitting are tight before applying pressure. Relieve system pressure before servicing. -Do not check for leaks with hand. Instead, use a piece of cardboard to check for leaks. -If skin injection happens, seek immediate "Surgical Treatment".
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Save These Instructions

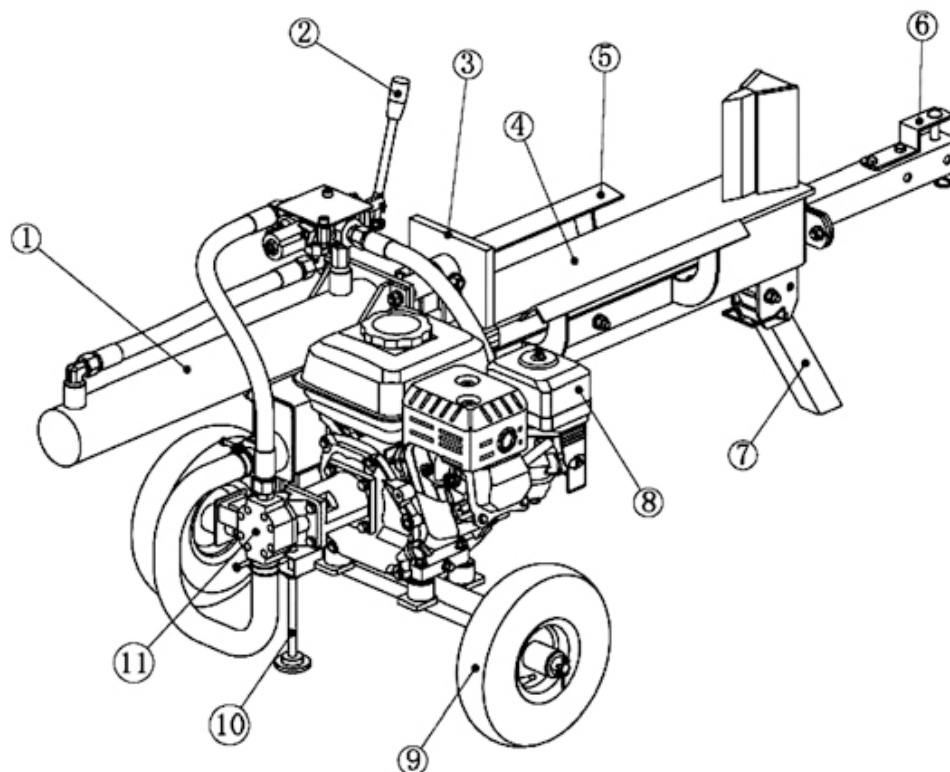
	<h2>Important safety Rules</h2>
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 	<div style="text-align: center;">  WARNING </div> <p>6.) Risk of fire and explosion</p> <p>Hot exhaust fumes from engine can cause fire. Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel.</p> <ul style="list-style-type: none"> -Position muffler at least 7 feet from combustible objects. -Before adding fuel, stop the engine and keep heat, sparks, and flame away. Do not add fuel when engine is running or still hot. No smoking near engine. -Do not pump fuel directly into engine at gas station. Static charge can build and ignite fuel. Use a UL approved fuel container to transfer gas to the engine. Wipe up fuel spills immediately. -Only store and handle fuel outdoors. Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result. -Do not change or add to exhaust systems. Fire can result. -Do not change or add fuel tanks or fuel lines. Fire can result. -Before each use, check fuel tank and fuel lines for leaks. Any fuel leak is a fire hazard. Fix any fuel leaks before starting engine. -During transportation take precautions to make sure machine will not tip over and cause a fuel leak fire hazard.
	<p>7.) Breathing hazard.</p> <p>Poisonous fumes from engine can kill you. Do not operate indoors even if Ventilated. For outdoor use only.</p>

	<div style="text-align: center;">  CAUTION </div> <p>1.) Hot muffler.</p> <p>You can be burned by muffler.</p> <p>Do not touch.</p>
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Save These Instructions

Machine Component Definitions



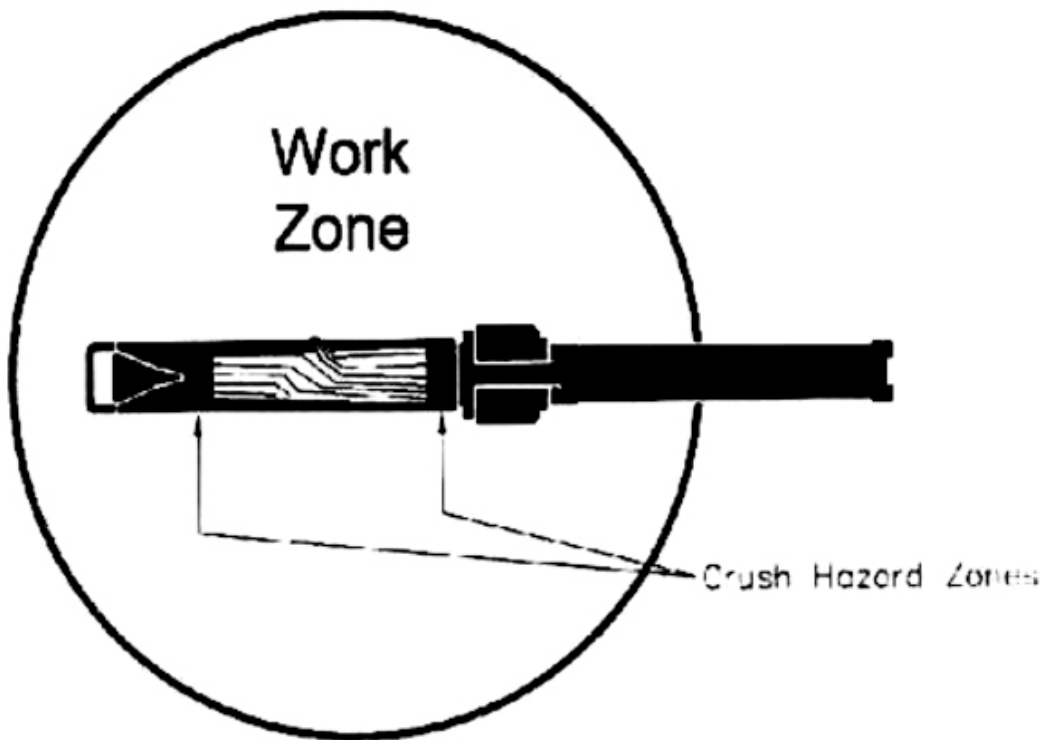
- 1.) **Hydraulic Cylinder.** The hydraulic cylinder has a **3.5"** bore and a 19" stroke. It is rated to 3500 psi.
- 2.) **Control Valve Handle.** Use the control valve handle to move the cutting wedge slide forward and backward.
- 3.) **Ram.** The ram pushes the log past the wedge.
- 4.) **Beam.** The beam is made of 4-3/4" wide.
- 5.) **Log cradle.** The cradle can hold the log from falling off when splitting.
- 6.) **Tow Ball Hitch.** Attaches the log splitter to your vehicle.
- 7.) **Front Support Leg.** Support the log splitter when in splitting position. The leg should be raised while towing (see operation instructions).
- 8.) **Engine.** The air cooled engine powers the hydraulic pump.
- 9.) **Tires.** 10", for off-road haling only.
- 10.) **Rear support leg.** The leg supports the log splitter while operating. The leg should be raised while towing (see Operation Instructions).
- 11.) **Gear Pump.** The gear pump makes the hydraulic oil flow through the system.




Operation Instructions

Proper Operation of the Log splitter

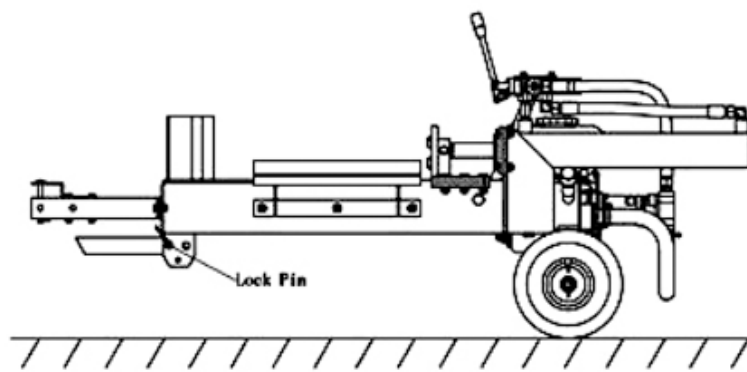
- 1.) Load a log onto the beam and against the ram plate.
- 2.) Serious accidents can happen when other people are allowed inside the work zone.
Keep everyone else out of the work zone while operating control valve.
- 3.) Push control valve handle FORWARD to split log.
- 4.) Push control valve handle BACKWARD to return wedge to its original position.
- 5.) Clear the split wood from the work zone.



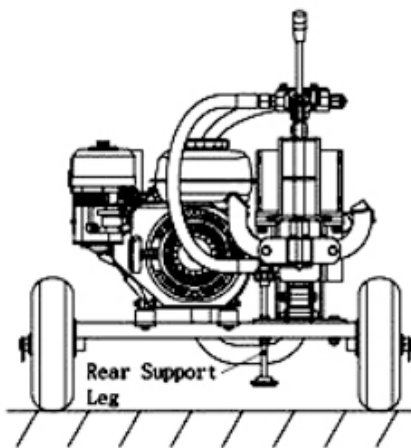
	<div data-bbox="715 1361 798 1438"></div> <div data-bbox="837 1393 1077 1438">WARNING</div> <div data-bbox="400 1456 624 1491">Crush hazard.</div> <div data-bbox="400 1503 1402 1583">Wedge can cut through skin and break bones. Keep both hands away from wedge and beam slide.</div> <div data-bbox="400 1594 1402 1769"><ul style="list-style-type: none">-Serious accidents can happen when other people are allowed inside the work zone. Keep everyone else out of the work zone while operating control valve.-Do not wear loose clothing. It can get tangled in moving parts of log splitter.-Only use the log splitter in daylight so you can see what you are doing.</div>
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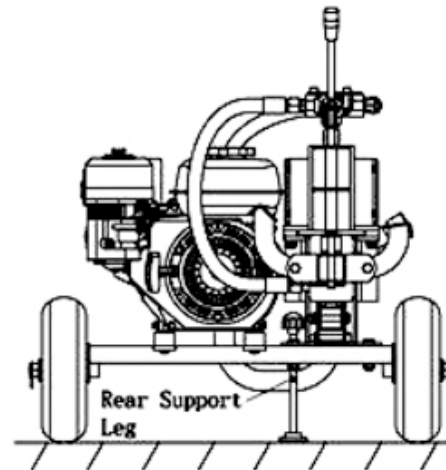
Operation Instructions



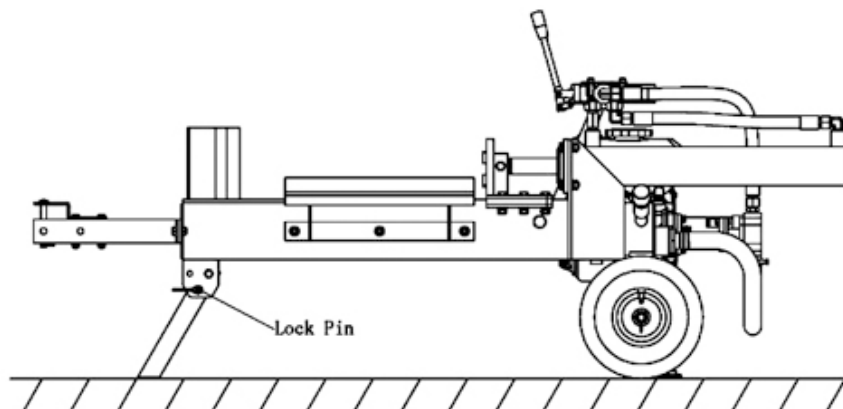
While towing, connect the hitch tongue to your vehicle and raise the front support leg. Note, the Lock Pin should be in the upper hole. Cannot be used on public roads.



The LEG should be raised while towing



The LEG should support the floor while operating



When operating, please connect the Front Support Leg top the lower hole with LOCK PIN and make sure the leg support the floor while operating.



Maintenance and Storage



Before performing maintenance, the log splitter must be placed in maintenance mode.

- 1.) Turn off engine.
- 2.) Move the control valve handle forward and backward to relieve hydraulic pressure.



After performing maintenance, make sure all guards, shields, and safety features are put back in place. Failure to follow this warning can result in serious injury.

Refer to the engine owner's manual for engine maintenance.

What	When	How
Hoses	Each Use	Inspect for exposed wire mesh and leaks. Replace all worn or damaged hoses before starting engine.
Hydraulic fittings	Each Use	Inspect for cracks and leaks. Replace all damaged fitting before starting engine.
Nuts and Bolts	Each Use	Check for loose bolts
Beam	Each Use	Apply grease to beam surface
Moving Parts	Each Use	Clear debris



CAUTION

Residual Hydraulic Energy

Residual energy must be released from the the pressurized hydraulic fluid before any maintenance or repair work is done on the firewood processor. Hydraulic fluid can emain highly pressurized even while the processor's Engine is off. Escaping pressurized hydraulic fluid can penetrate skin and cause serious injury.

To release residual hydraulic energy:

1. Shut off Engine
2. Move control valves back and forth, from one limit of travel to the other, at least four times.
3. Hold valve for three seconds at each limit of travel.



WARNING

Skin injection hazard.

High pressure fluid can inject under skin resulting in serious injury including amputation.

-Make sure all fitting are tight before applying pressure. Relieve system pressure before servicing.

-Do not check for leaks with hand. Instead, use a piece of cardboard to check for leaks.

-If skin injection happens, seek immediate "Surgical Treatment"

Troubleshooting

Problem	
Cylinder rod will not move	SOLUTION: A, D, E, H, J
Slow cylinder shaft speed when extending or retracting	SOLUTION: A, B, C, H, I, K, L
Wood will not split or splits extremely slowly	SOLUTION: A, B, C, F, I, K
Engine bogs down during splitting	SOLUTION: G, L
Engine stalls under low load condition	SOLUTION: D, E, L, M

Cause	Solution
A-Insufficient oil to pump	Check oil level in oil tank
B-Air in oil	Check oil level in oil tank
C-Excessive pump inlet vacuum	Check pump inlet hose for blockage or kinks
D-Blocked hydraulic lines	Flush and clean the splitter hydraulic system
E-Blocked control valve	Flush and clean the splitter hydraulic system
F-Low control valve setting	Adjust control valve with a pressure gauge
G-High control valve setting	Adjust control valve with a pressure gauge
H-Damaged control valve	Return control valve for authorized repair
I-Internal control valve leak	Return control valve for authorized repair
J-Internal cylinder leak	Return control valve for authorized repair
K-Internally damaged cylinder	Return control valve for authorized repair
L-Engine Control out of adjustment	Adjust idle control nuts
M-Engine is loaded during idle down mode	Use shorter log length (20" or less) to allow engine to speed up before contact.

Specifications

Ram force: 18ton

Engine: Honda 6.5HP

Maximum Pressure: 3800PSI

Hydraulic Cylinder Size (bore x stroke): 3.5"x 19"

Cycle time: 30s

Hydraulic Tank Capacity: 8L

Max. Log opening: 20" long and 8" diameter. Note: Do not exceed this diameter.

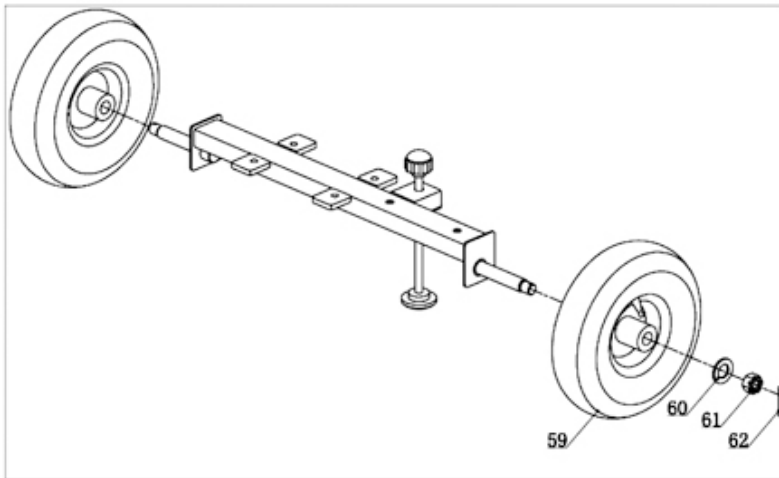
Hard steel Wedge: 6"

The manufacturer reserves the right to make improvements in design and/or changes in specifications at any time without incurring any obligation to install them on units previously sold.

ASSEMBLY STEP

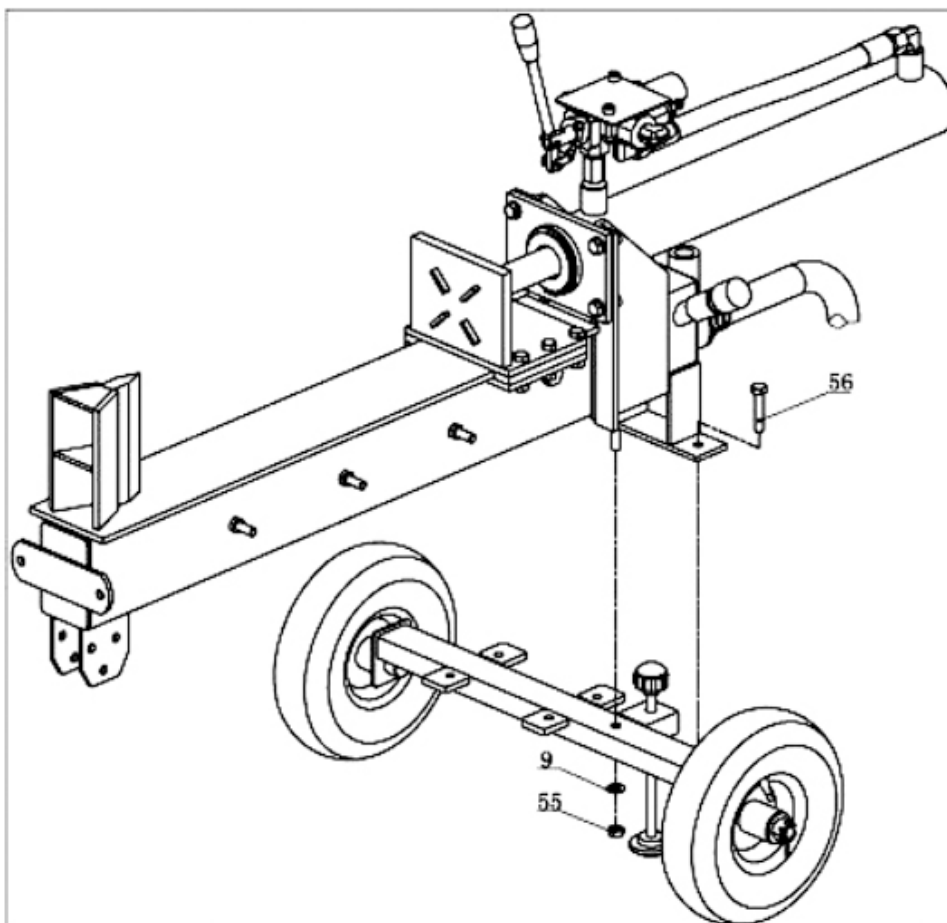
STEP 1: WHEEL ASSEMBLY

Assemble the wheel (#59) to the wheel stand by using cotter Pin $\phi 4 \times 36$ (#62), Hex Nut M16 $\times 1.5$ (#61) and Flat Washer $\phi 20$ (#60)



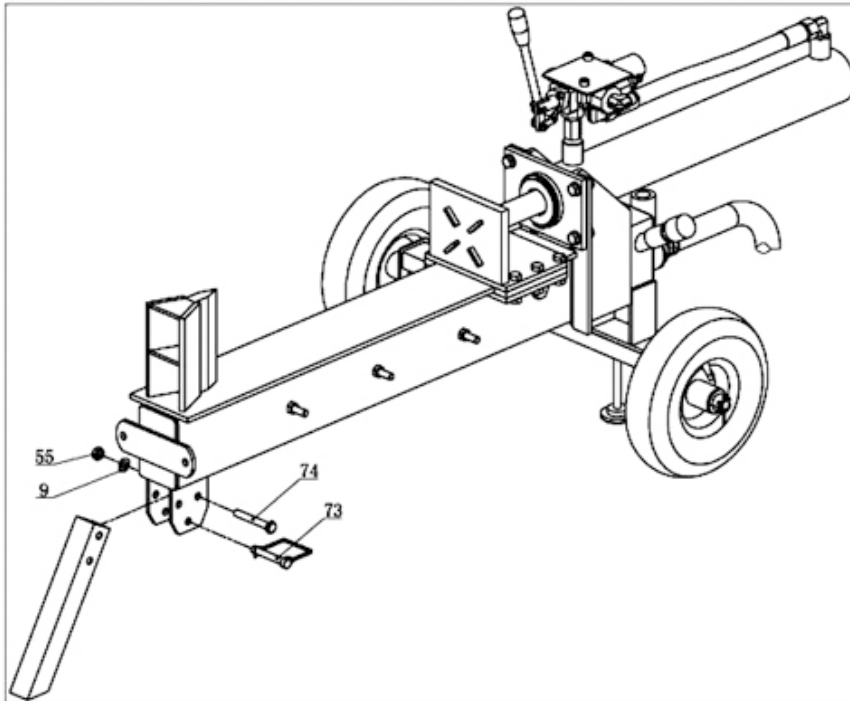
STEP 2: WHEEL STAND ASSEMBLY

Assemble the wheel stand to the main frame by using Hex Bolt M10 $\times 50$ (#56), Flat Washer $\phi 10$ (#9) and Hex Lock M10 (#55).



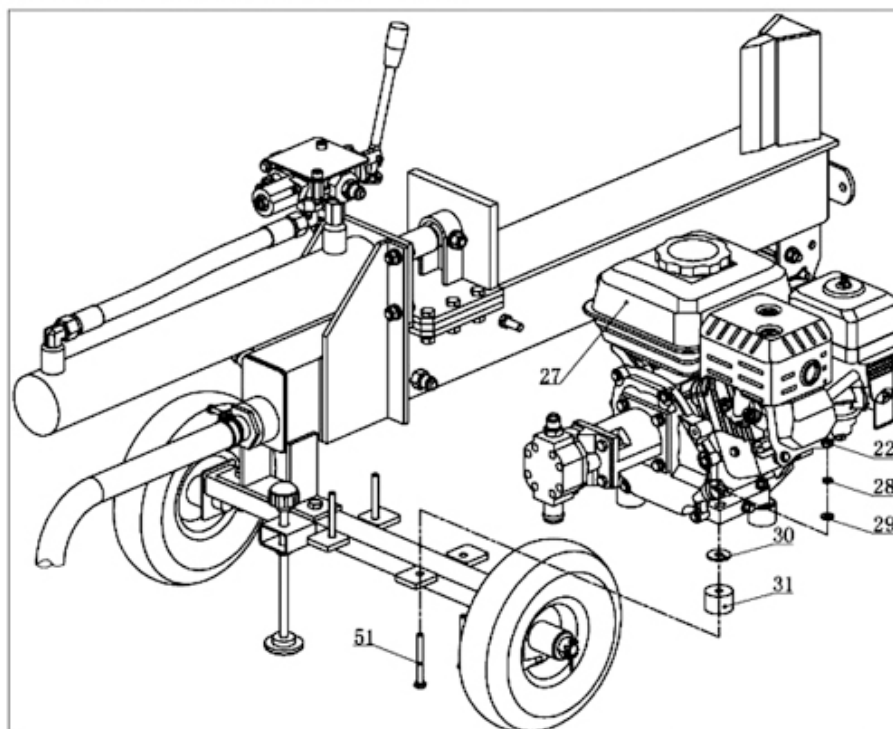
STEP 3: ATTACH FRONT SUPPORT LEG

Attached the front support leg to the main frame by using Hex Bolt M10×70(#74), Flat Washer $\phi 10$ (#9) and Hex Lock Nut M10 (#55), then fix the Lock Pin (#73).



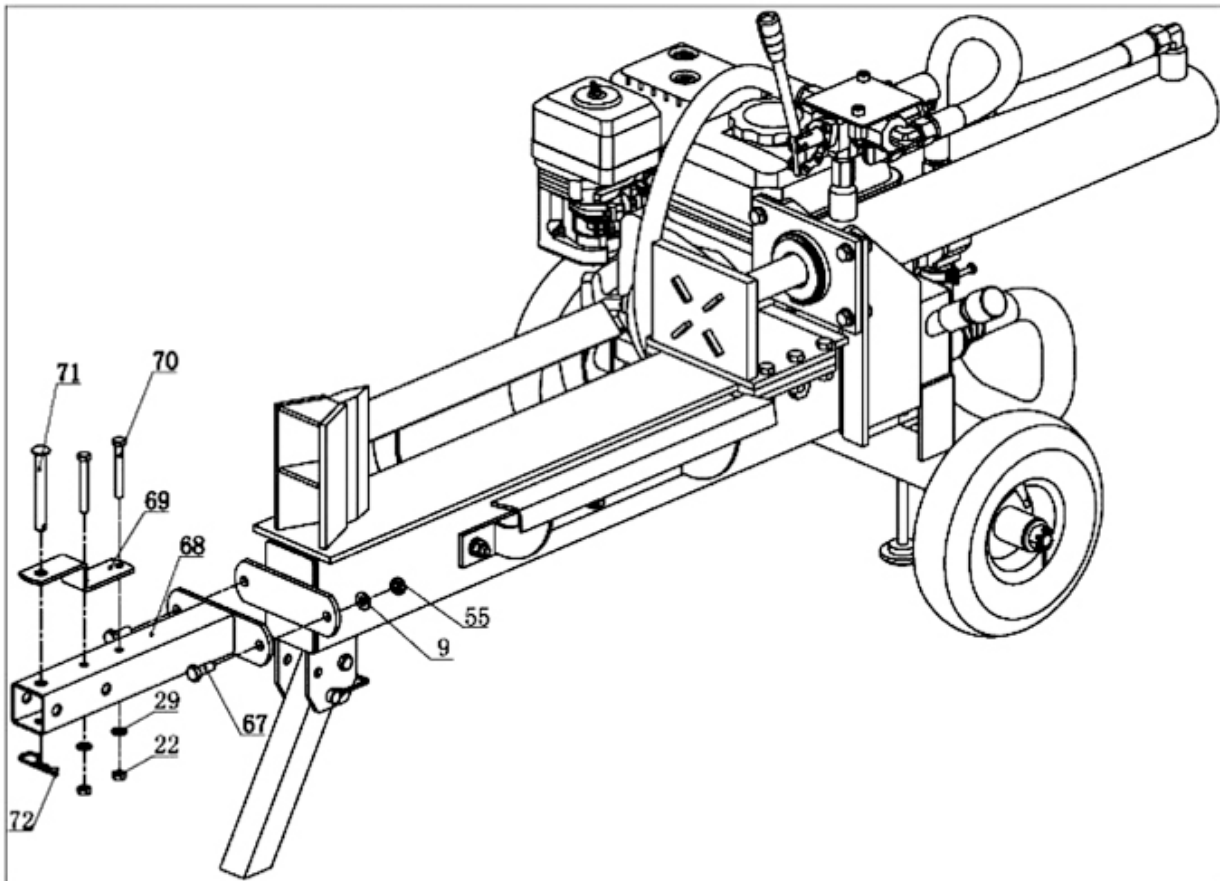
STEP 4: ASSEMBLY ENGINE

Assemble the engine (#27) to the wheel stand by using Hex Bolt M8×70(#22), Flat Washer $\phi 8$ (#28), Lock Washer $\phi 8$ (#29), between Engine & Wheel Stand, please add Polyurethane Block (#31) and Big Flat Washer $\phi 10$ (#30).



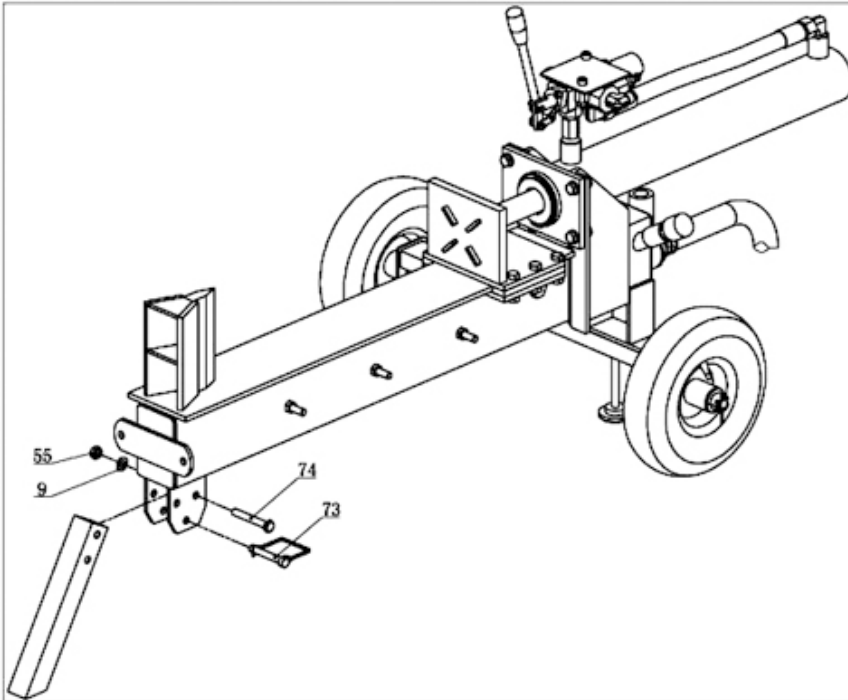
STEP 7: ASSEMBLY THE TOW BAR

Attached the Tow Bar (#68) to the main frame by using Hex Bolt M10×25(#55), Flat Washer $\phi 10$ (#9) and Hex Lock Nut M10 (#67). Then fix the Hitch Tongue (#69) to the tow bar by using Hex Bolt M8×65(#70), Flat Washer $\phi 8$ (#29) and Hex Lock Nut M8 (#22), Insert the Round Pin (#71) to the hole on Hitch Tongue and secure with R Pin (#72).



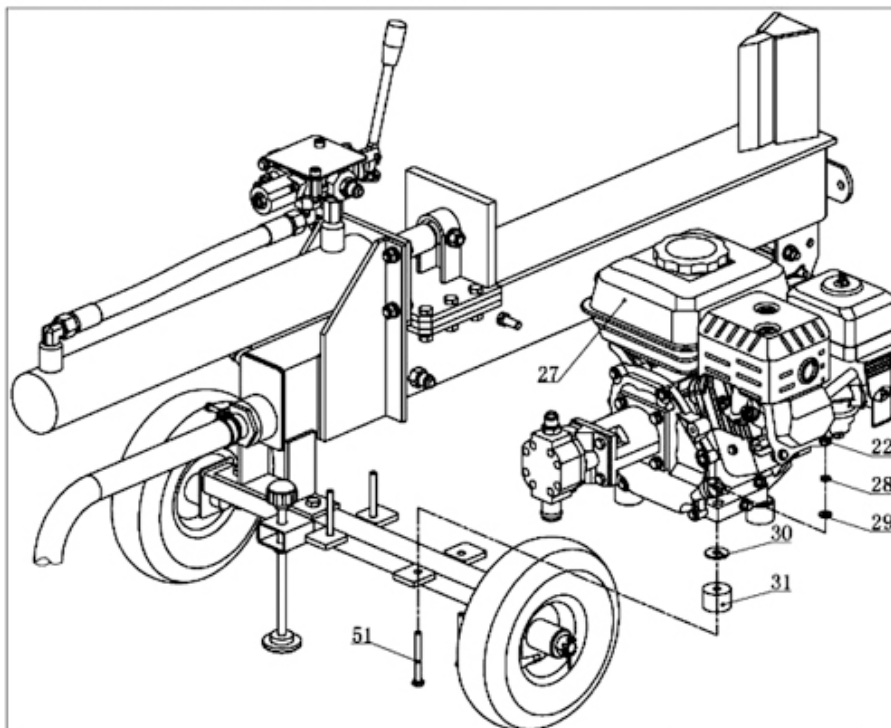
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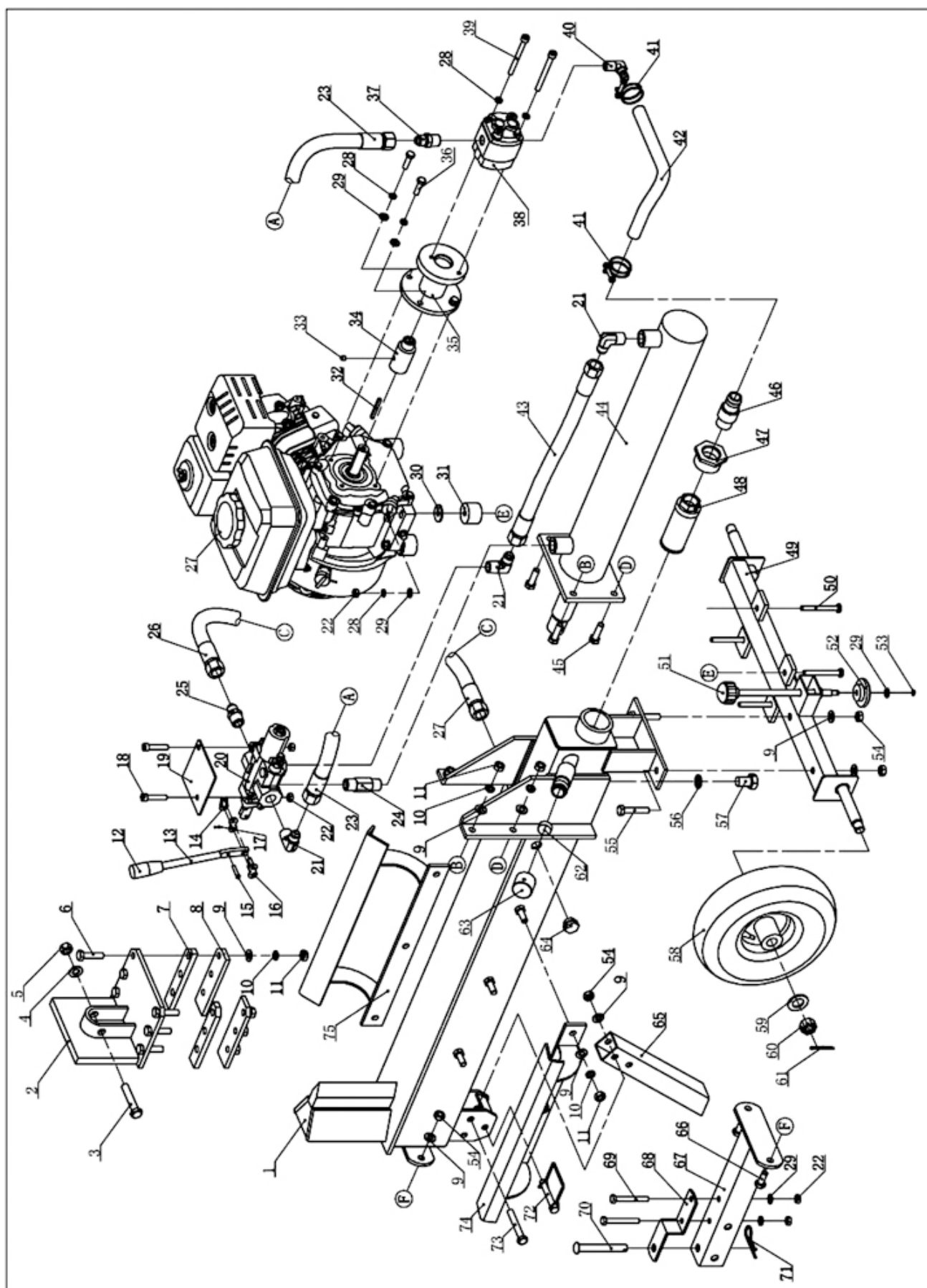


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LOG SPLITTER PARTS LIST



LOG SPLITTER PARTS LIST

Ref. No	Description	Qty	Ref. No	Description	Qty
1	Beam	1	39	Inner Hex Screw M8×90	1
2	Pusher	1	40	Gear pump Inlet Tube Connector	1
3	Hex Bolt M10×65	1	41	Clamp	2
4	Flat Washer ϕ 10	2	42	Suction hose	1
5	Hex Lock Nut M10	1	43	High Pressure Hose B	1
6	Hex Bolt M10×40	6	44	Cylinder	1
7	Wedge Spacer	2	45	Hex Bolt M10×35	4
8	Wedge Plate	2	46	Inlet Tube Connector	1
9	Flat Washer ϕ 10	21	47	Nut ZG1 1/2	1
10	Spring Washer ϕ 10	16	48	Oil filter 40×180-J	1
11	Hex Nut M10	16	49	Wheel Stand	1
12	Valve Handle cover	1	50	Hex Bolt M8×70	4
13	Valve Handle	1	51	Adjustable support	1
14	Chain Plate Lock	1	52	Support base	1
15	Pin 5×25B	1	53	Axial Spring Collar ϕ 8	1
16	Chain plate	2	54	Hex Lock Nut M10	5
17	Cotter Pin ϕ 1.6×10	1	55	Hex Bolt M10×50	2
18	Screw M8×40	2	56	Washer ϕ 10	1
19	Plate	1	57	Nut 16×1.5	1
20	Control Valve	1	58	Wheel 10"	2
21	Connector Z1/2 -M18×1.5	3	59	Flat Washer ϕ 16	2
22	Hex Lock Nut M8	8	60	Nut M16×1.5	2
23	High Pressure Hose A	1	61	Cotter Pin ϕ 3.2×36	2
24	Connector	1	62	Sponge Filter	1
25	Connector Z1/2 -M18×1.5	1	63	Oil Plug	1
26	High Pressure Hose C	1	64	Oil Plug Bolt	1
27	6.5HP Engine	1	65	Front Support Leg	1
28	Lock Washer ϕ 8	10	66	Hex Bolt M10×25	2
29	Flat Washer ϕ 8	11	67	Tow Bar	1
30	Big Flat Washer ϕ 10	4	68	Hitch Tongue	1
31	Shock Absorption Feet	4	69	Hex Bolt M8×65	2
32	Engine Bushing	1	70	Round Pin	1
33	Flat Key	1	71	R Pin	1
34	Engine Connector	1	72	Lock Pin	1
35	Gear Pump Stand	1	73	Hex Bolt M10×70	1
36	Hex Bolt M8×30	4	74	Left Log Cradle	1
37	Gear Pump Connector 3/8"-M18x1.5	1	75	Right Log Cradle	1
38	Gear pump	1			