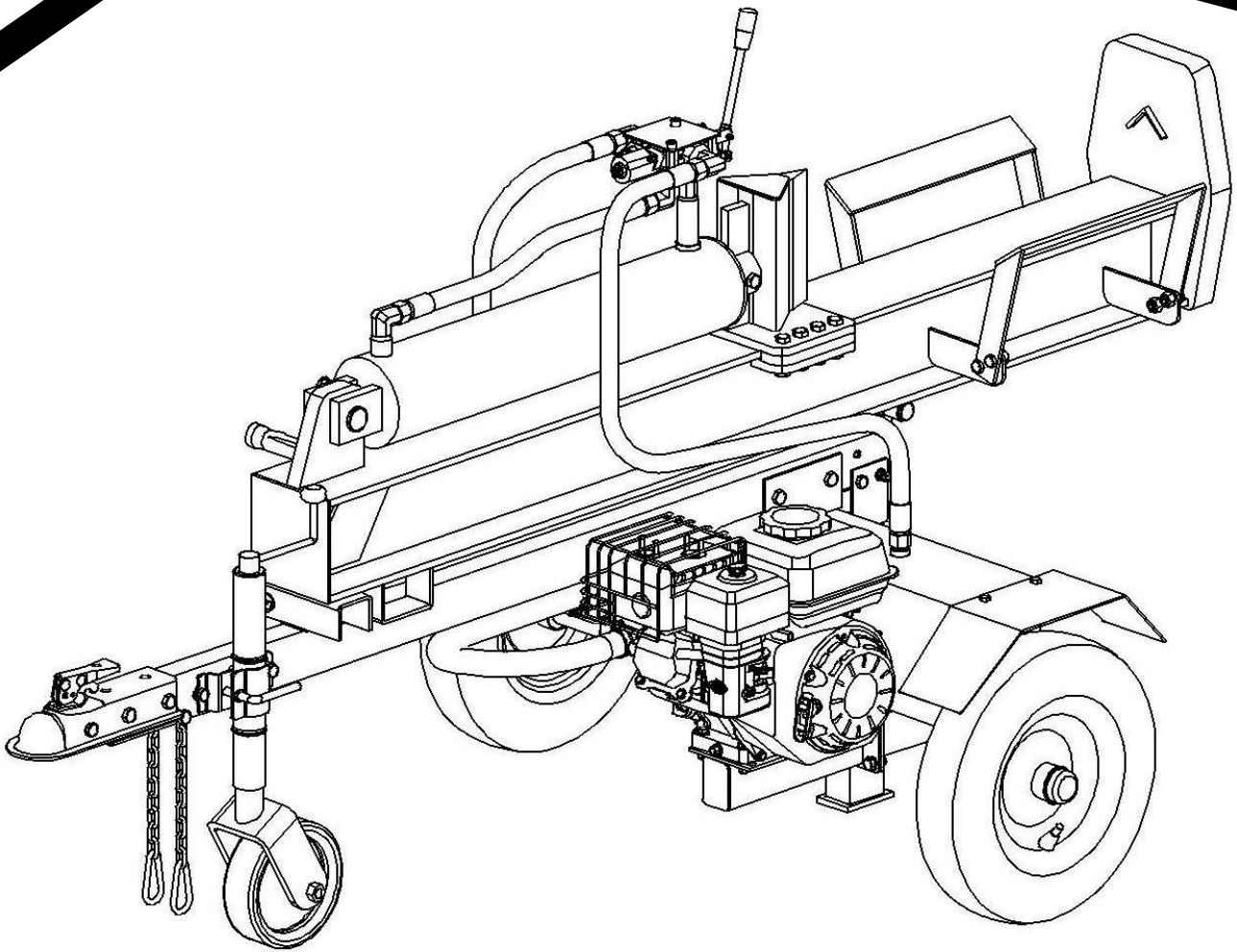


30T 596828 & 45T 596829 PETROL LOG SPLITTER

TOOLEX[®]
Industrial

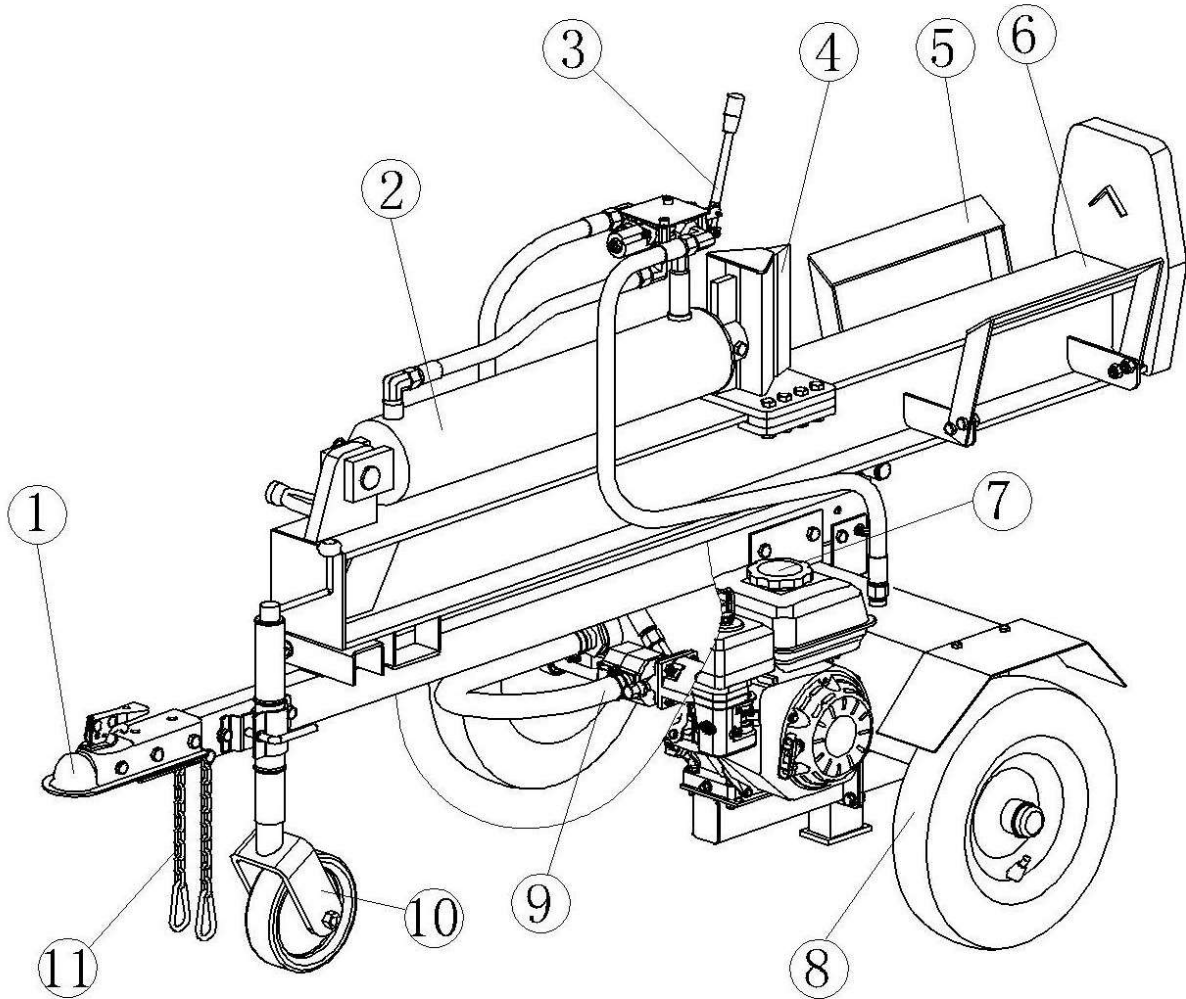


READ THROUGH AND CAREFULLY UNDERSTAND
THESE INSTRUCTIONS BEFORE USING THIS TOOL

INSTRUCTION MANUAL

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

MACHINE COMPONENT DEFINITIONS



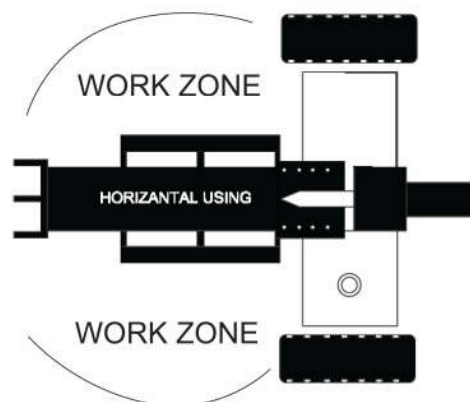
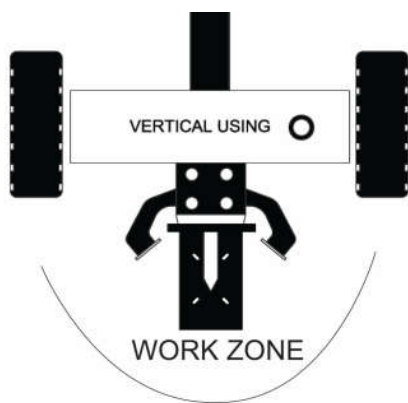
- 1.) **50mm Coupler.** Attaches the log splitter to your vehicle. Fits only 50mm tow balls.
- 2.) **Hydraulic Cylinder.** It is rated to 3800 psi.
- 3.) **Control Valve Handle.** Use the control valve handle to move the wedge slide forward and backward.
- 4.) **Wedge.** The wedge features a taper that makes splitting easier.
- 5.) **Log Cradle.** Keeps the log on the beam without operator assistance.
- 6.) **Beam.** The beam is made of 150mm wide flange beam (also called I-Beam).
- 7.) **Engine.** The air cooled engine powers the hydraulic pump.
- 8.) **Tires.** Maximum rated speed is 15 km/h. Cannot be towed on public roads.
- 9.) **Gear Pump.** The gear pump makes the hydraulic oil flow through the system.
- 10.) **Jockey wheel.** The jockey wheel supports the log splitter while operating. It's easier to move the log splitter when towing
- 11.) **Safety Chains.** A safety feature to prevent loss of log splitter while towing.



OPERATION INSTRUCTIONS

Proper Operation of the Log Splitter

- 1.) Load a log onto the beam and against the endplate.
- 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.) Make sure hands are clear of crush hazard zones.
- 4.) Push control valve handle FORWARD by two hands to split log.
- 5.) Push control valve handle BACKWARD by two hands to return wedge to its original position.
- 6.) Clear the split wood from the work zone.



WARNING

1. READ OWNERS MANUAL COMPLETELY .SERIOUS INJURY OR DEATH CAN OCCUR IF SAFETY INSTRUCTIONS ARE NOT FOLLOWED.
2. ENSURE OPERATION IS IN DONE IN A WELL VENTILATED AREA



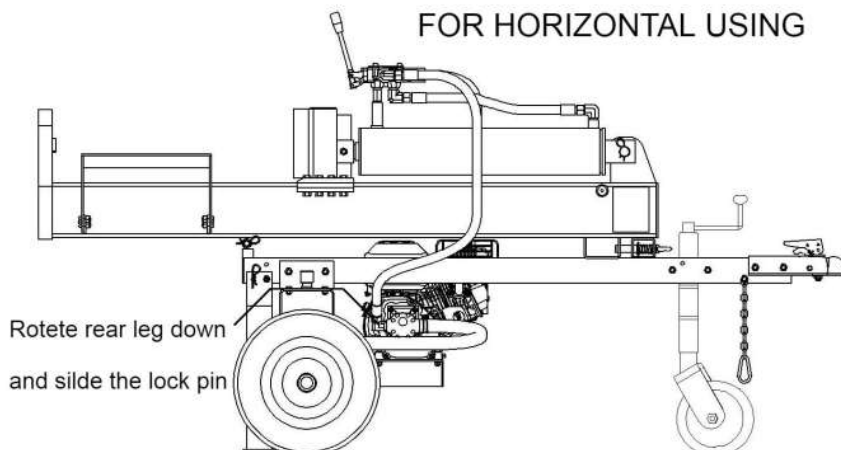
WARNING

1. BLADE HAZARD.KEEP HANDS AWAY FROM BLADE.SERIOUS INJURIES CAN OCCUR.BLADE CAN CAUSE SERIOUS INJURY.
2. WEAR EYE AND EAR PROTECTION WHILE SPLITTING.

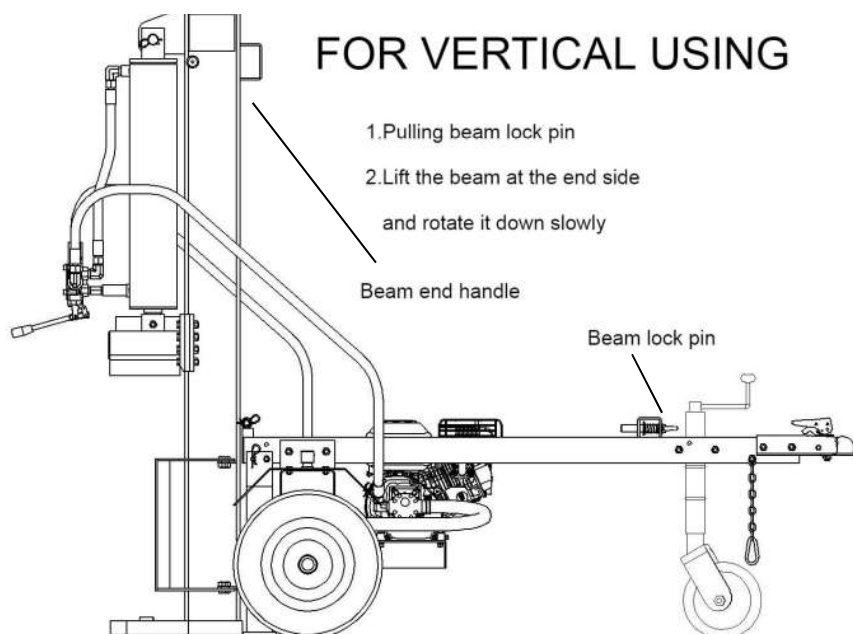


OPERATION INSTRUCTIONS

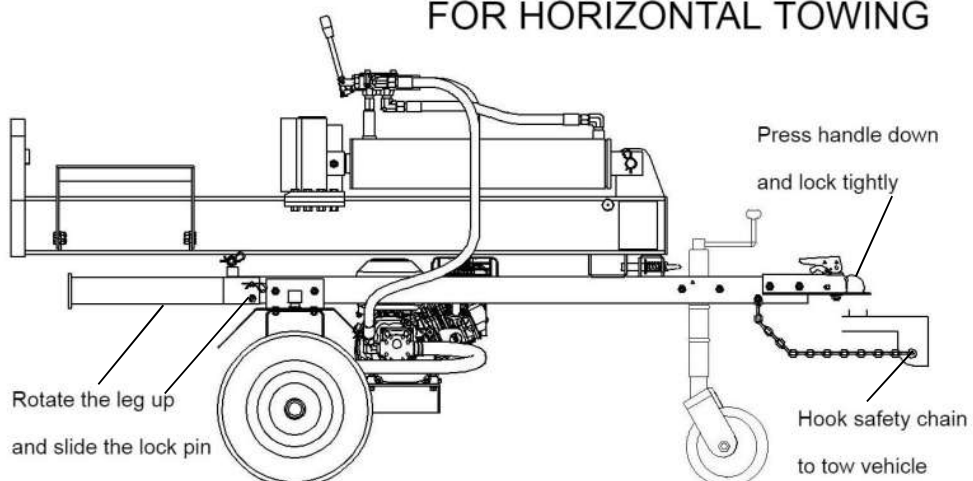
FOR HORIZONTAL USING



FOR VERTICAL USING

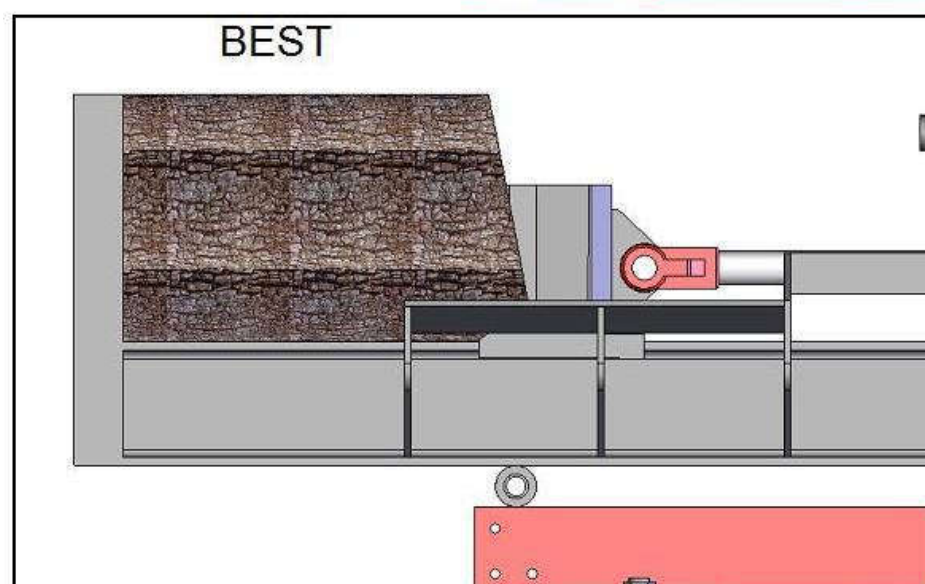
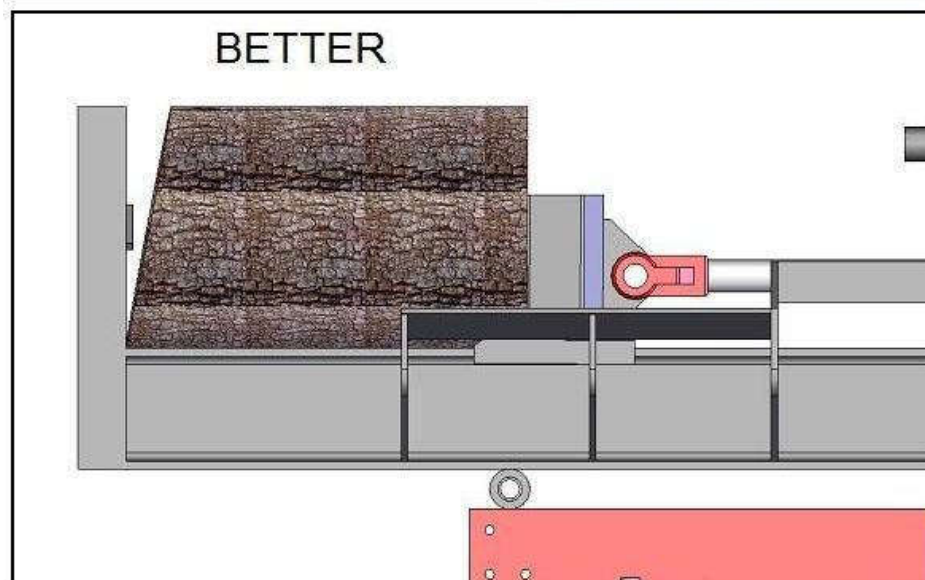
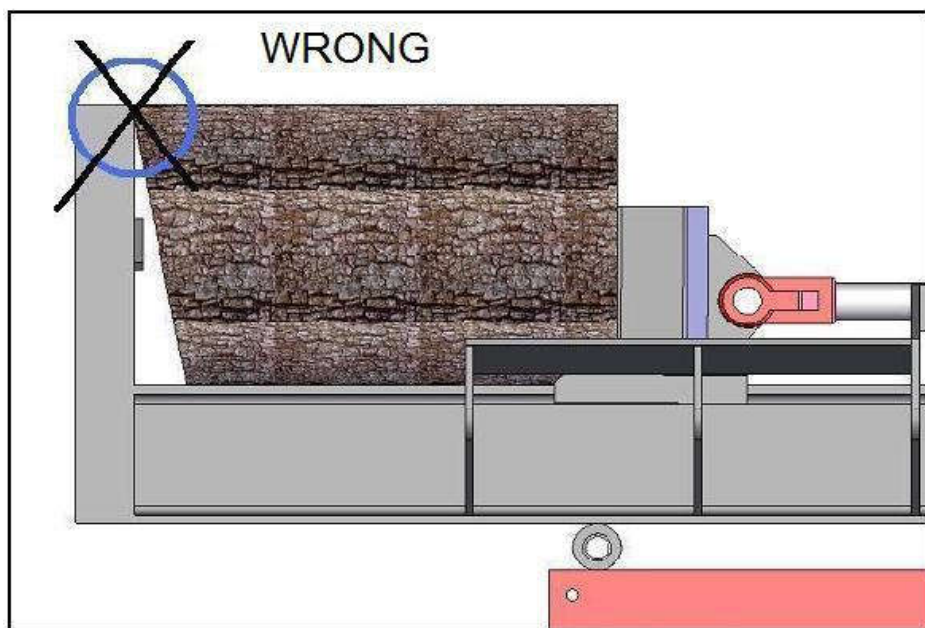


FOR HORIZONTAL TOWING



⚠ OPERATION INSTRUCTIONS

HOW TO SPLIT THE LOG WITH SLANT SURFACE





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 fittings 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

SPECIFICATIONS

Maximum Pressure.....	3800 psi
Maximum Flow	36L/min
Hydraulic Fluid Capacity	18Litre / 30T 22 Litre / 45T
Hydraulic Fluid Type	86 Grade Hydraulic Oil Do not use vehicle brake fluid
Coupler Size	50mm Ball
Maximum Towing Speed.....	15km/h
Maximum Log Length	635mm
Hydraulic Cylinder Bore	115mm/30T, 140mm/45T
Hydraulic Cylinder Stroke	533mm
Maximum Log Diameter	400mm

TROUBLESHOOTING

Problem	
Cylinder rod will not move	SOLUTION: A,D,E,H,J
Slow cylinder rod 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 reservoir
B -Air in oil	Check oil level in reservoir
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 cylinder for authorized repair
K -Internally damaged cylinder	Return cylinder 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 to allow engine to speed up before contact.

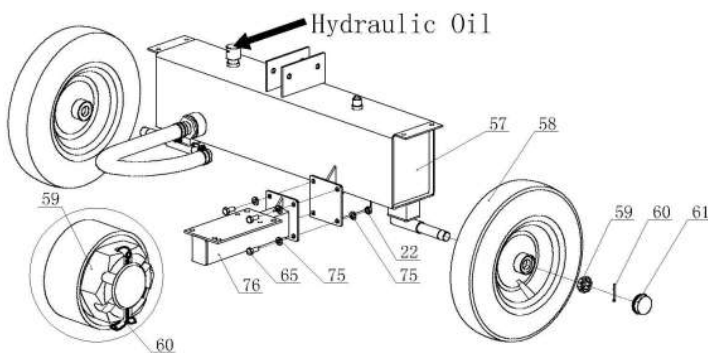
ASSEMBLY

Open Shipping Crate

1. Set the shipping Crate on a solid, flat surface.
2. Carefully cut the shipping bands and remove lid of shipping crate.
3. Using two people to lift, carefully remove the engine, oil tank, wheels, tow bar, support legs, and hardware. (For parts reference see the last page in manual)
4. Locate all hardware before beginning assembly.

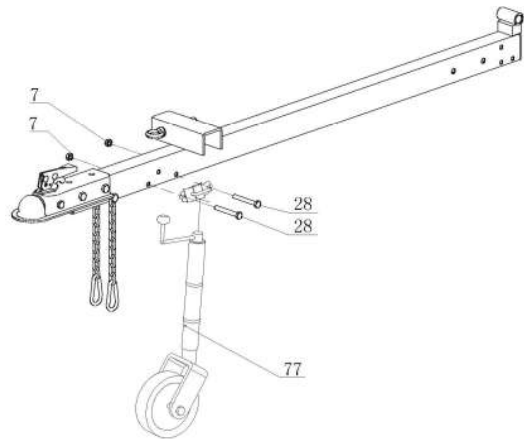
Step 1: Wheel Assembly

Fix the wheel to the oil tank (#57) axle by a slotted nut M24x2 (#59), cotter pin Ø4x36 (#60) and attach the axle cap (#61). Fix the Engine base to the oil tank by the Bolt(#65), Flat washer(#75) and Screw(#22)



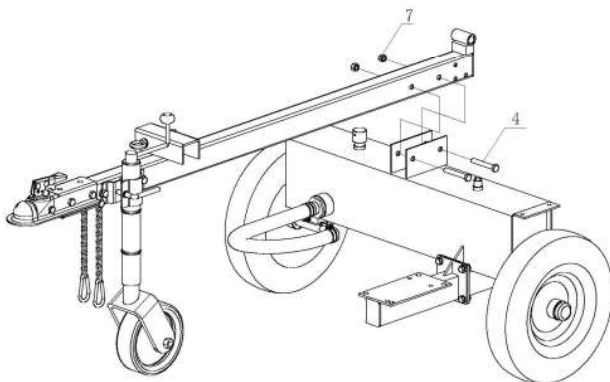
Step 3: Attach Tow bar to Oil Tank

Fix the jockey wheel(#77) to the tow bar by using hex bolts M12x75 (#28) and lock nuts M12 (#7).
Note: Towing hitch supplied is Australian style.

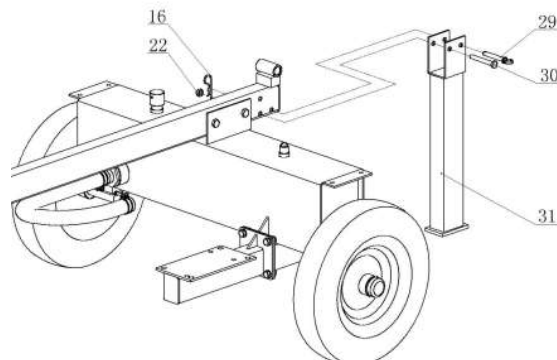


Step 2: Attach Tow bar and Support Leg Step 4: Assemble Rear Support Leg

Fix the tow bar to the oil tank by hex bolts M12 x80(#4), Lock Nut M12(#7)

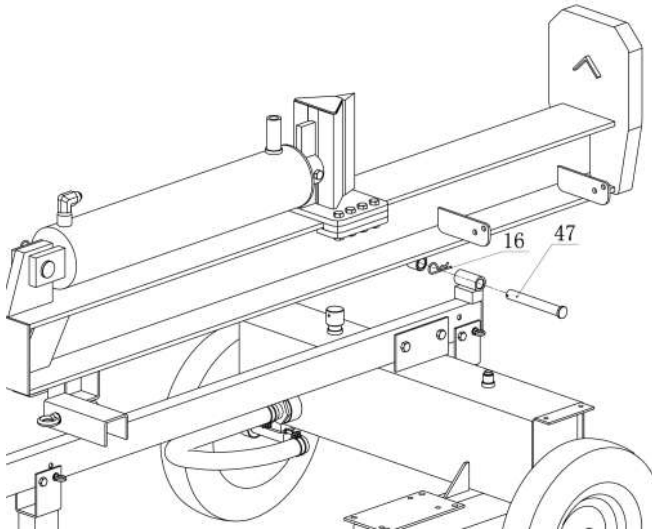


Fix the support leg (#31) to the tow bar by a pin (#29), Bolt M10X75(#30), Lock Nut M10(#22) and R Pin(#16).



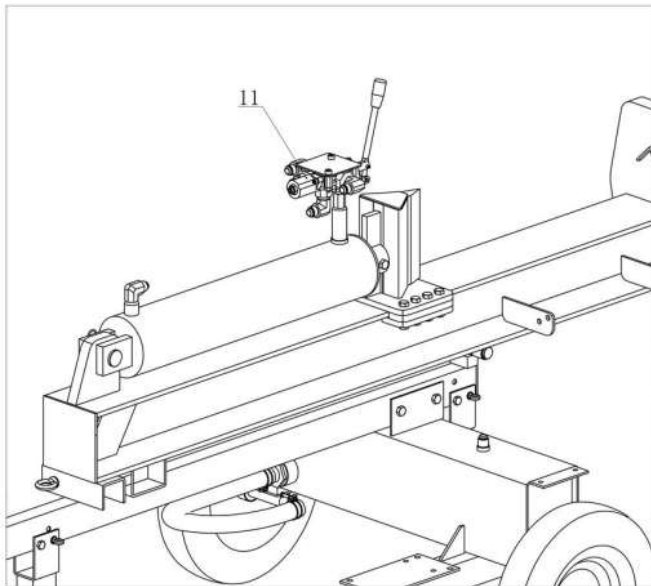
Step 5: Attach Hydraulic Cylinder Log Cradle

1. Assemble the frame to the hitch frame with a shaft(#17) and fix with R pin(#16)



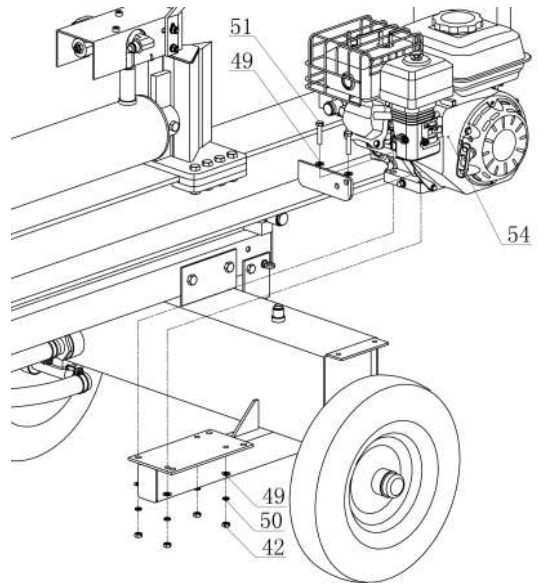
Step 6: Attach Control Valve

Attach Control Valve Assembly(#11) with Oil Cylinder as the following.



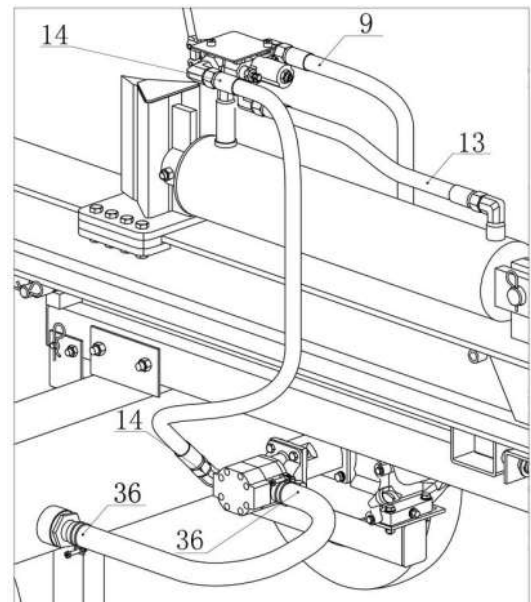
Step 7: Attach Engine

1. Assemble the engine to the oil tank by using hex bolt M8x40 (#51), flat washer Ø8 (#49), lock washer Ø8 (#50) and lock nut M8 (#42).



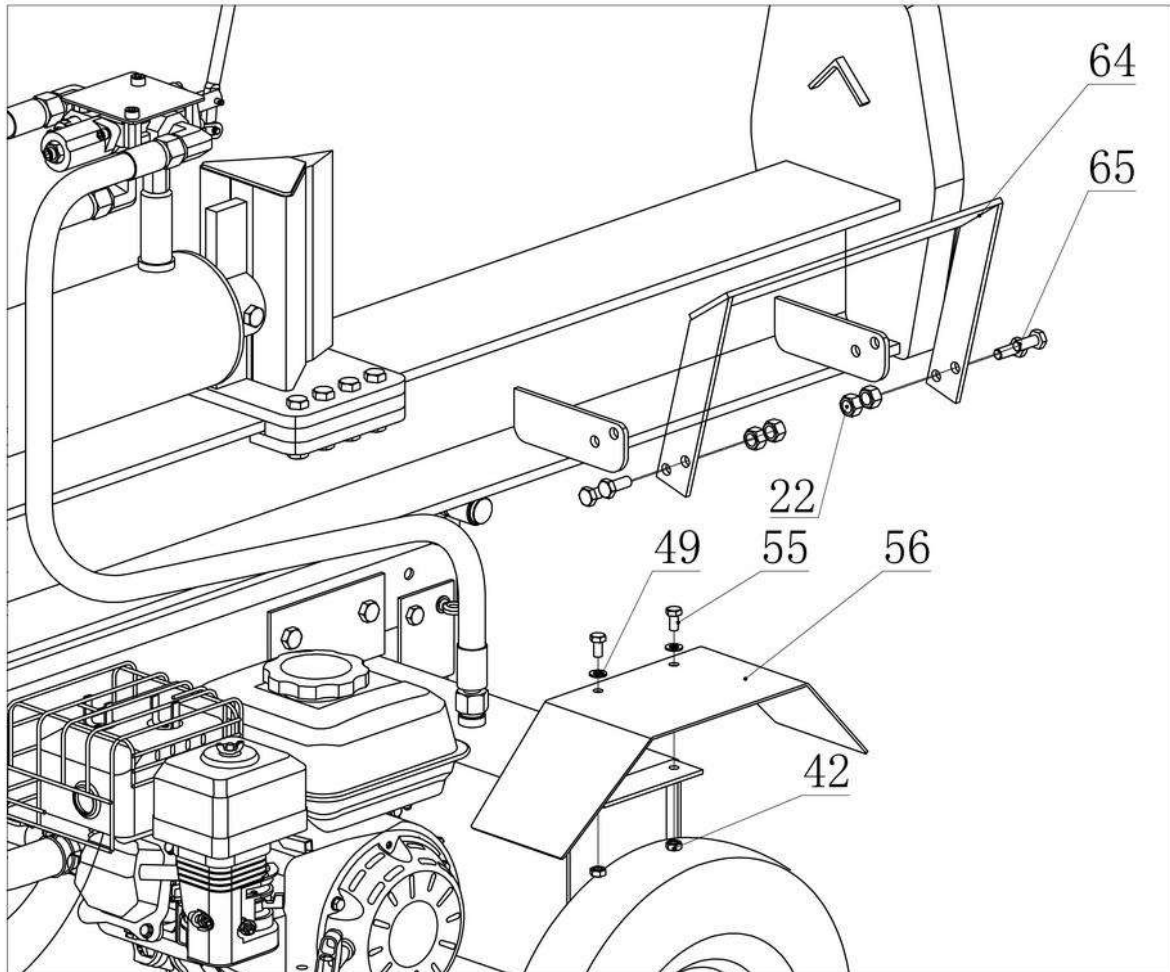
Step 8: Attach Hydraulic Hoses

Attach all the hoses to the machine as the following, including oil hose A(#14), oil hose B(#13), oil hose C(#9) and oil inlet hose(#36).

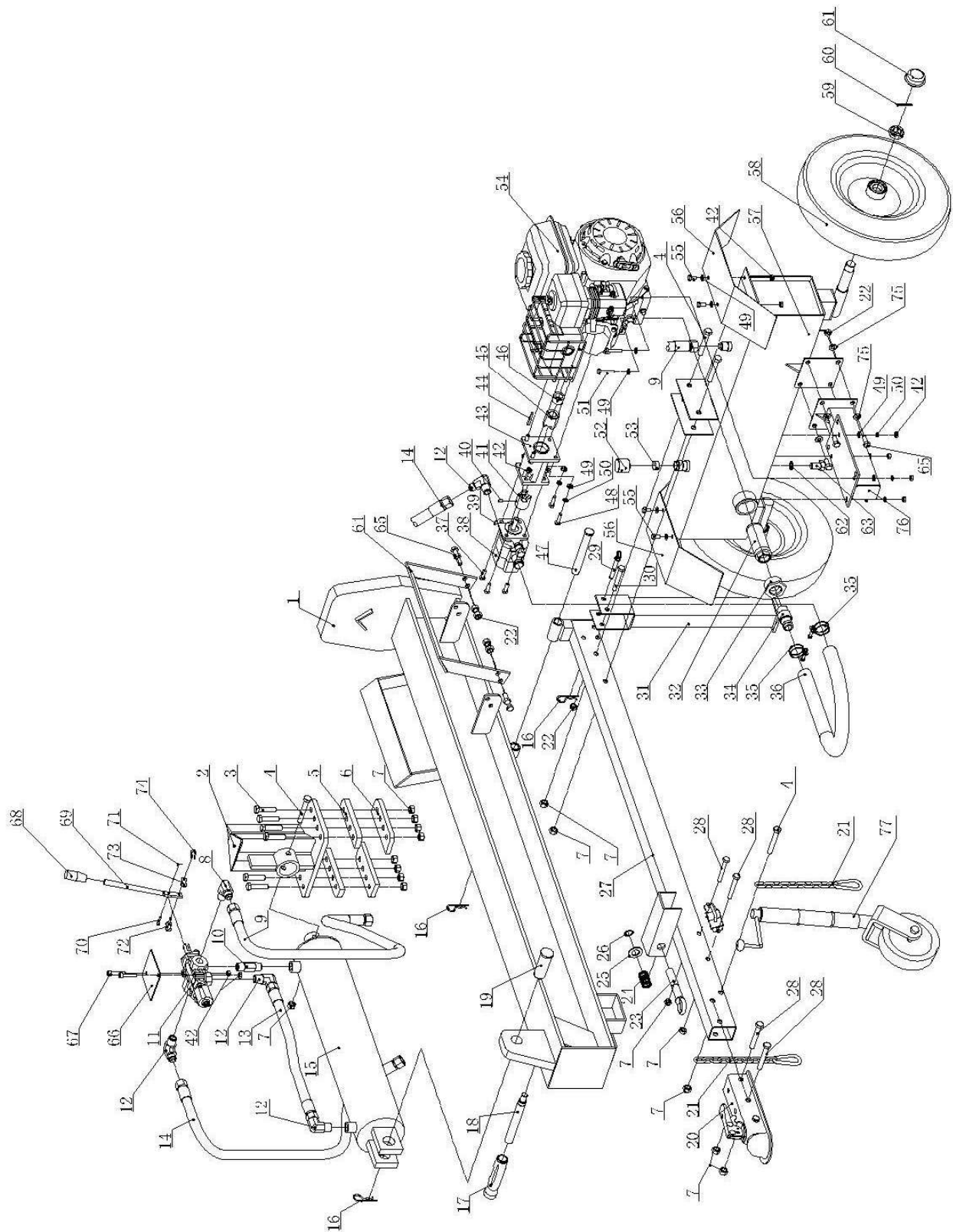


Step 9: Attach Wheel Fender and Log Cradle.

1. Attach left fender and right fender (#56) to the oil tank by using hex bolt M8x16 (#55), flat washer Ø8 (#49), and hex lock nut M10 (#42).
2. Attach left and right log cradles (#64) by using Bolt M10X25 (#65) and Lock Nut M10 (#22).



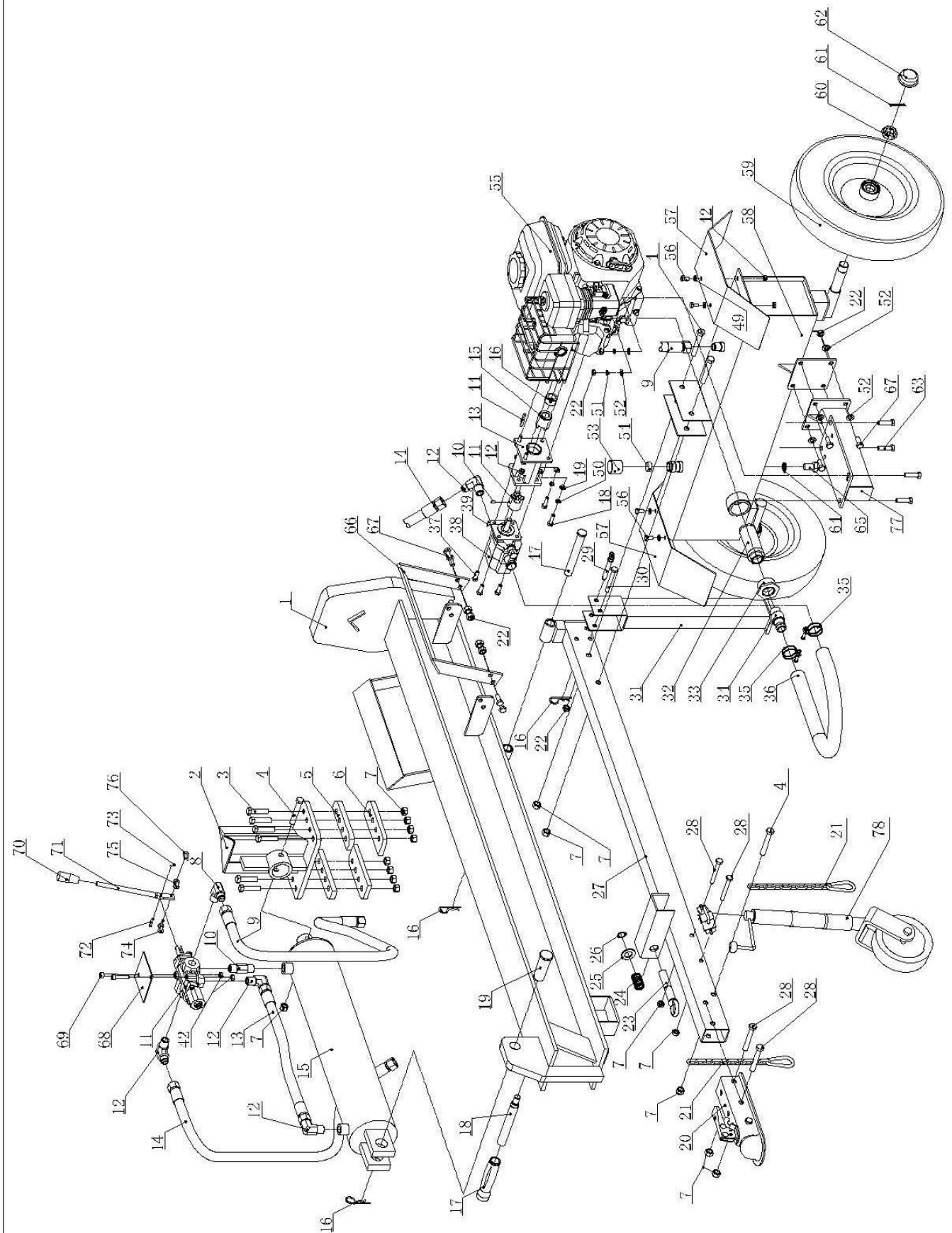
PARTS DRAWING 30T



PARTS LIST

No.	Name	QTY	No.	Name	QTY
1	Beam	1	40	Screw m6x10	1
2	Wedge	1	41	Gear Pump Connector	1
3	Hex Bolt m12x50	8	42	Lock Nut m8	14
4	Hex Bolt m12x75	1	43	Connector Stand	1
5	Wedge Spacer	2	44	Flat Key	1
6	Wedge Plate	2	45	Engine Connector	1
7	Lock Nut m12	14	46	Engine Bushing	1
8	1/2"-22x1.5 Connector	1	47	Beam Roll Pin	1
9	Oil Hose c	1	48	Hex Bolt m8x30	4
10	Pope Joint	1	49	Spring Washer ø8	16
11	Control Valve	1	50	Flat Washer ø8	8
12	1/2"-1/2"Connector	4	51	Hex Bolt m8x40	4
13	Oil Hose b	1	52	Oil Tank Cap	1
14	Oil Hose a	1	53	Sponge Filter	1
15	Cylinder	1	54	Engine	1
16	r Pin	4	55	Hex Bolt m8x16	4
17	Control Handle Cover	1	56	Wheel Guard	2
18	Control Handle	1	57	Oil Tank	1
19	Cylinder Pin	1	58	16" Pneumatic Tire	2
20	Tow 2in	1	59	Thin Slotted Nuts m24x2	2
21	Chain	2	60	Cotter Pin ø4x36	2
22	Lock Nut m10	14	61	Wheel Cap	2
23	Beam Lock Pin	1	62	Combination Washer ø16	1
24	Return Spring	1	63	Oil Drain Bolt m16x1.5	1
25	Washer ø20	1	64	Guide Plate	2
26	Shaft Circlip ø19	1	65	Hex Bolt m10x25	12
27	Tow Bar	1	66	Nameplate	1
28	Hex Bolt m12x80	5	67	Screw m8x40	2
29	Pin	2	68	Handle Cover	1
30	Hex Bolt m10x75	2	69	Valve Handle	1
31	Supporter	2	70	Pin 5x25b	1
32	Oil Filter 40x180-j	1	71	Cotter Pin ø1.6x10	1
33	Nut Zg1 1/2	1	72	Roller Chain	1
34	Inlet Oil Hose Connector g1	1	73	Chain Plat	1
35	Hoop	2	74	Locker	1
36	Suction Pipe	1	75	Flat Washer ø10	8
37	Hex Bolt m8x25	4	76	Engine Stand	1
38	Gear Pump	1	77	Jockey wheel	1
39	Woodruff Key	1			

PARTS DRAWING 45T



PARTS LIST

No.	Name	QTY	No.	Name	QTY
1	Beam	1	40	Screw m6x10	1
2	Wedge	1	41	Gear Pump Connector	1
3	Hex Bolt m12x50	8	42	Lock Nut m8	16
4	Hex Bolt m12x75	1	43	Connector Stand	1
5	Wedge Spacer	2	44	Flat Key	1
6	Wedge Plate	2	45	Engine Connector	1
7	Lock Nut m12	14	46	Engine Bushing	1
8	1/2"-22x1.5 Connector	1	47	Beam Roll Pin	1
9	Oil Hose c	1	48	Hex Bolt m8x30	4
10	Pope Joint	1	49	Flat Washer ø8	24
11	Control Valve	1	50	Spring Washer ø8	8
12	1/2"-1/2"Connector	4	51	Spring Washer ø10	4
13	Oil Hose b	1	52	Flat Washer ø10	1
14	Oil Hose a	1	53	Oil tanke cap	1
15	Cylinder	1	54	Sponge filter	1
16	r Pin	4	55	Engine	4
17	Control Handle Cover	3	56	Hex Bolt m8x16	2
18	Control Handle	1	57	Wheel Guard	1
19	Cylinder Pin	1	58	Oil Tank	2
20	Tow 2in	1	59	16" Pneumatic Tire	2
21	Chain	2	60	Thin Slotted Nuts m24x2	2
22	Lock Nut m10	10	61	Cotter Pin ø4x36	2
23	Beam Lock Pin	1	62	Wheel Cap	1
24	Return Spring	1	63	Hex Bolt m10x40	1
25	Washer ø20	1	64	Busher ø16 O	2
26	Shaft Circlip ø19	1	65	Oil Drain Bolt m16x1.5	12
27	Tow Bar	1	66	Guide Plate	1
28	Hex Bolt m12x80	5	67	Hex Bolt m10x25	2
29	Pin	2	68	Plate support	1
30	Hex Bolt m10x75	2	69	Screw m8x40	6
31	Supporter	2	70	Handle Cover	2
32	Oil Filter 40x180-j	1	71	Control Valve	1
33	Nut Zg1 1/2	1	72	Pin 5x25b	1
34	Inlet Oil Hose Connector g1	1	73	Cotter Pin ø1.6x10	1
35	Hoop	2	74	Roller Chain	2
36	Suction Pipe	1	75	Chain Plat	2
37	Hex Bolt m8x25	4	76	Locker	1
38	Gear Pump	1	77	Engine Stand	8
39	Woodruff Key	1	78	Jockey wheel	1