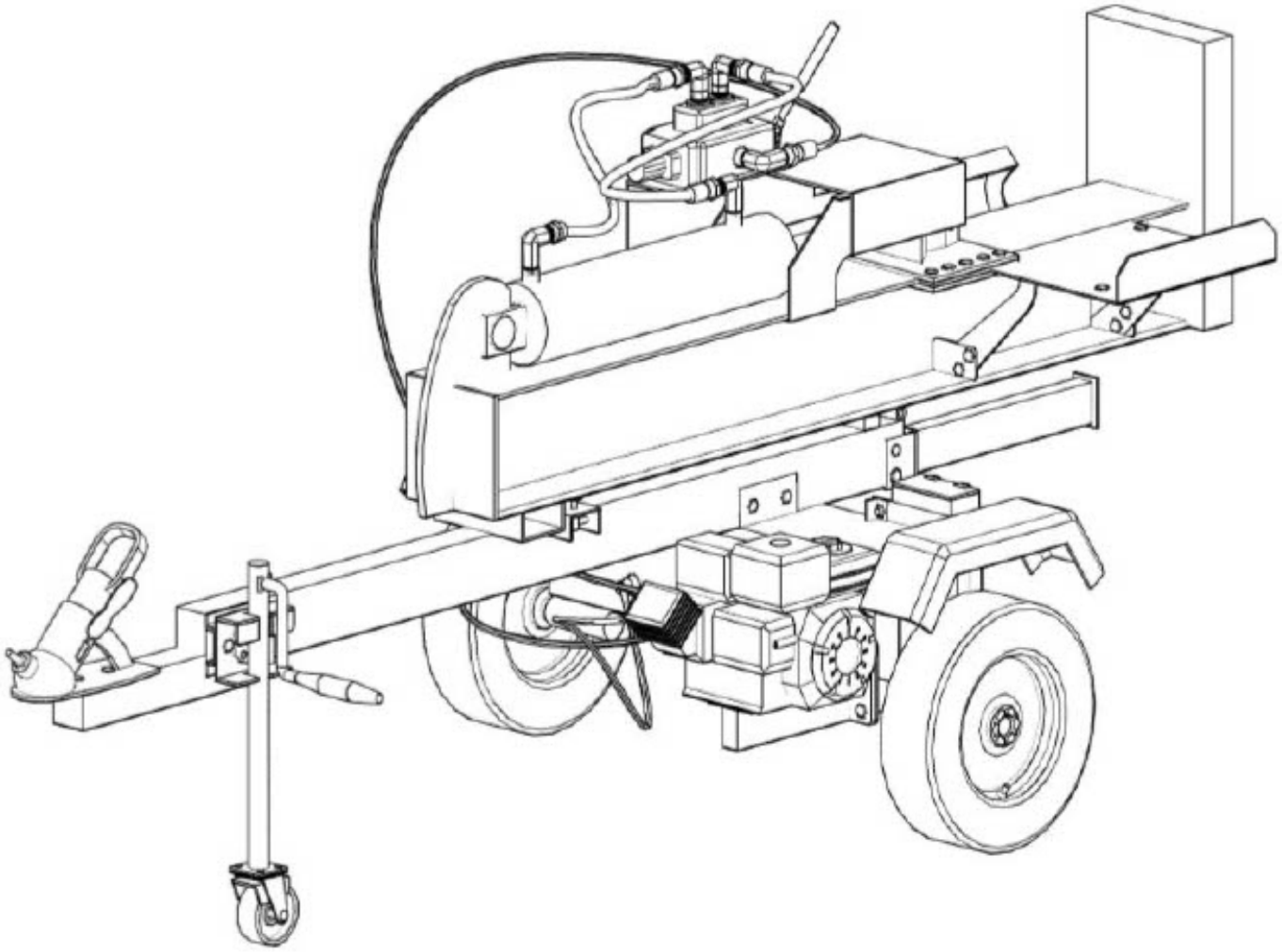
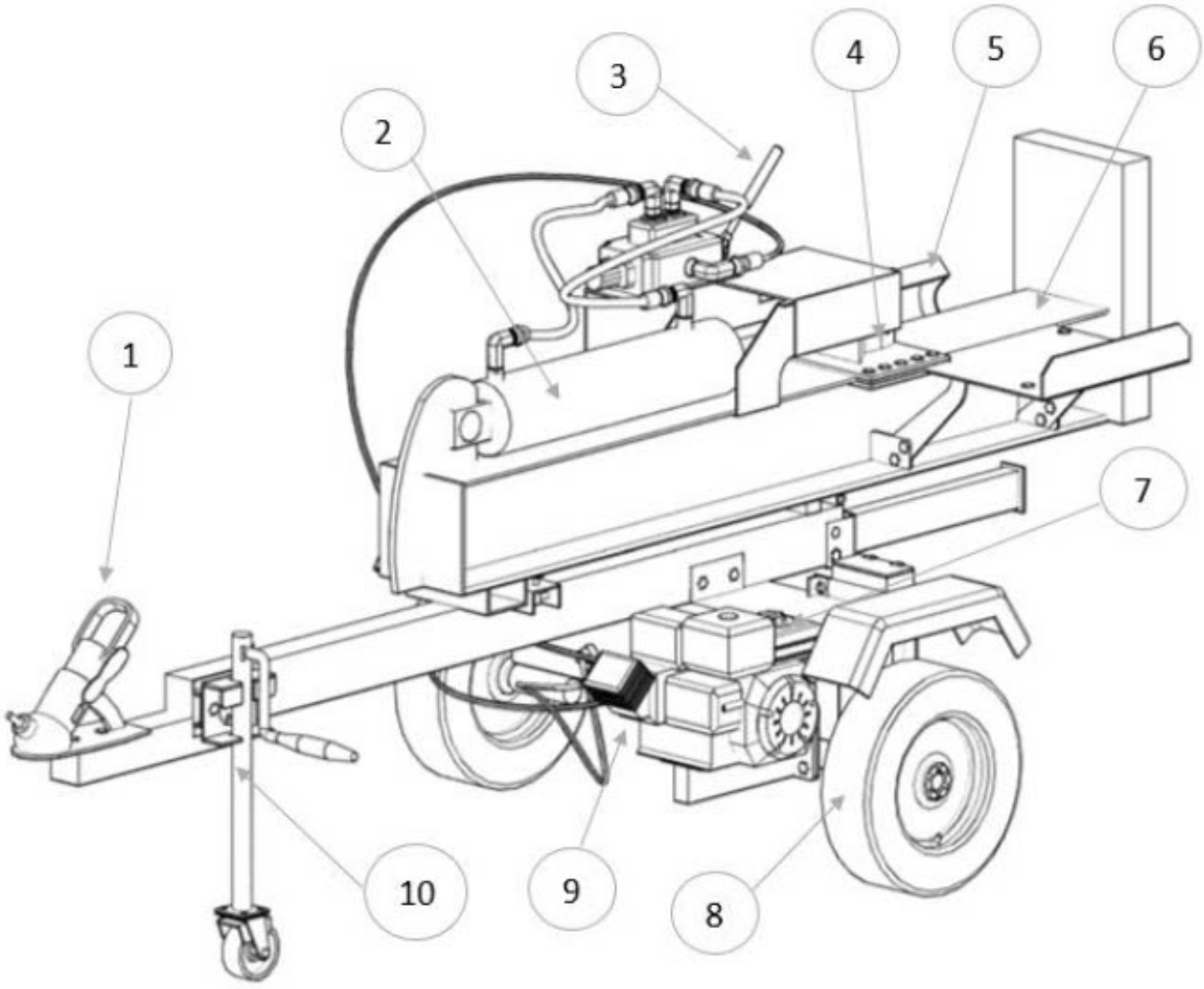
PERTH SALES MACHINERY HIRE

40/50/60 TON LOGSPLITTER



Owner's Manual and Operating Instructions

MACHINE COMPONENT DEFINITIONS



1.) **50mm²'' Hitch Ball**. Attaches the log splitter to your vehicle. Fits only 50mm²'' Australian Version hitch balls.
2.) **Hydraulic Cylinder**. It is rated to 3500 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 6" wide flange beam (also called I-Beam).
7.) **Engine.** The air cooled engine powers the hydraulic pump.
8.) **Tires.** Maximum rated speed is 30 mile per hour.
9.) **Gear Pump.** The gear pump makes the hydraulic oil flow through the system.
10.) **Jockey wheel.** The leg supports the log splitter while operating. The leg should be raised while towing (*see Operation Instructions*).

⚠OPERATION INSTRUCTIONS

Proper Operation of the Log Splitter

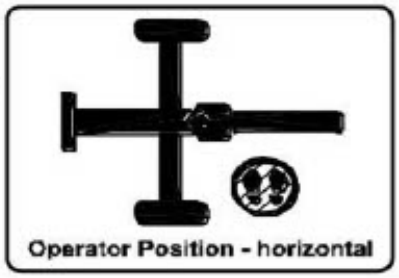
1.) Load a log onto the beam and against the endplate.
2.) Serious accidents can happen when other people are allowed inside the work zone. Keep everyone else out of the work zone while operating control valve.
3.) Make sure hands are clear of crush hazard zones.
4.) Push control valve handle FORWARD 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.

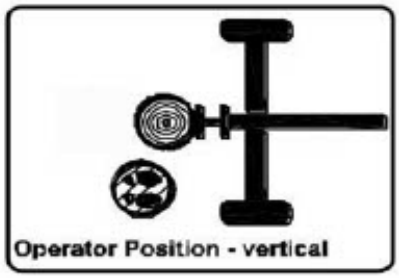
OPERATING INSTRUCTIONS

GENERAL
- Stay in the OPERATOR POSITION while actuating controls.
- Never actuate controls until the helper is 10ft away from log splitter, including any helpers assisting to load logs.
- Wear eye protection, hearing protection, snug fitting gloves, and safety shoes or heavy boots. No loose or dangling apparel.

SETTING UP
- Place log splitter on dry, level ground.
- Secure splitter for unintended movement.
- Place splitter in horizontal or vertical position.
- Start engine

SPLITTING LOG
- Position log on beam, against endplate.
- Move split control to extend wedge and split log.
- Release split control to stop wedge.
- Move split control to return wedge.
- Remove split wood from work area.


Operator Position - horizontal


Operator Position - vertical

⚠WARNING

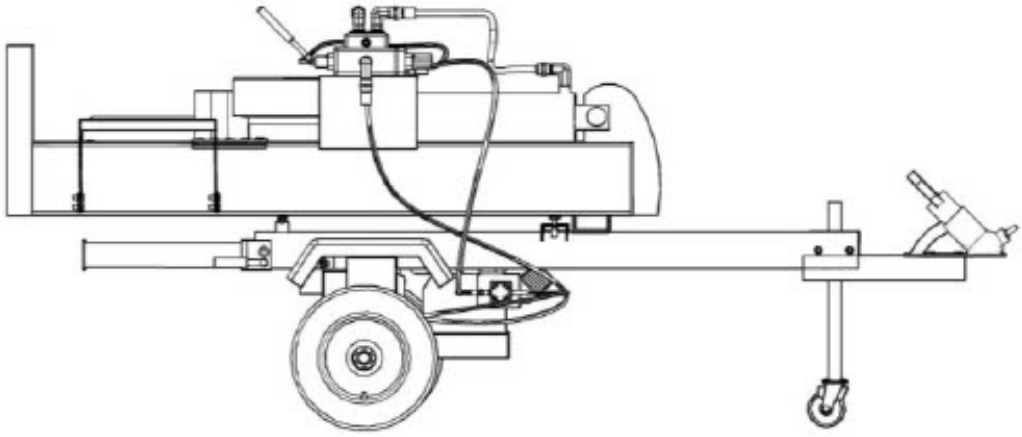
Moving parts can crush and cut. Pieces can fly out while splitting. Follow safety rules for operating the log splitter or serious injury could result.

- READ the Owner's Manual completely before operating.
- Only one person should operate the log splitter. If an assistant is helping to load logs, the operator should not actuate controls until the assistant is at least 10 ft away.
- Stay in the designated OPERATOR POSITION while actuating the controls.
- Split wood in direction of the grain only.
- Hold bark side of logs when loading.
- Keep hands away from wedge, endplate/ram, and partly split logs.
- Never leave log splitter unattended during operation.
- Stay off slopes and slippery surfaces.

See additional safety rules in the Owner's Manual.

⚠OPERATION INSTRUCTIONS

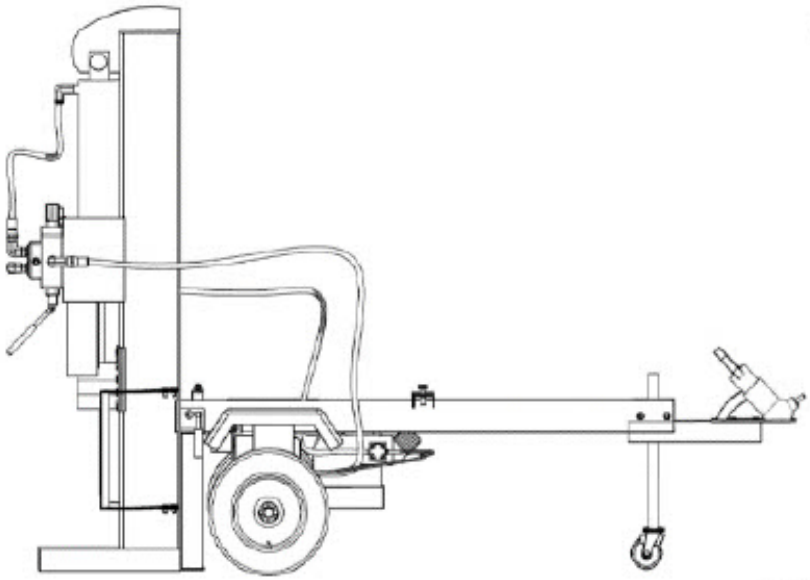
FOR HORIZONTAL USING



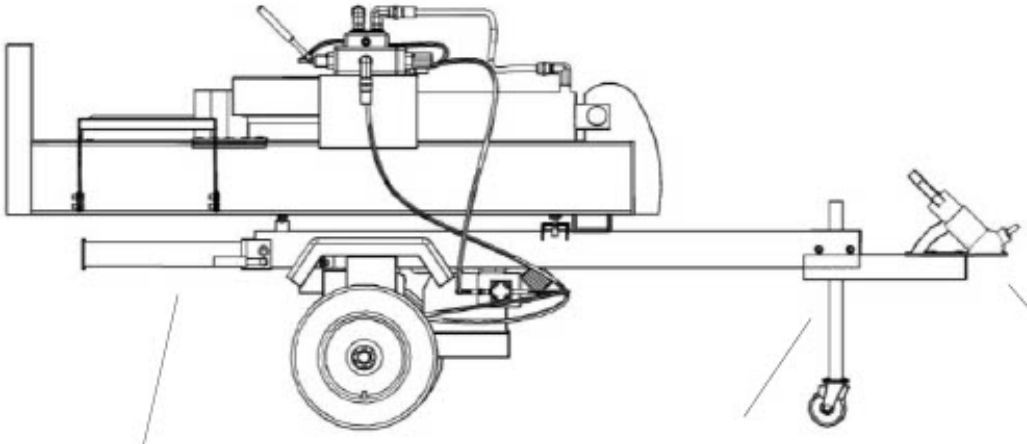
FOR VERTICAL USING

Take out lock pin

Lift beam at the end



FOR HORIZONTAL TOWING



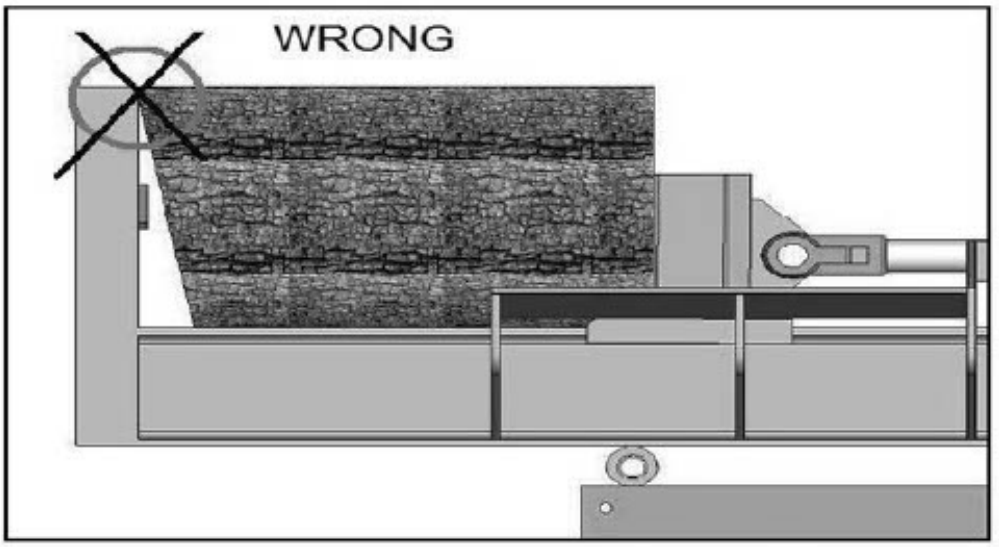
Lock the rear outrigger in UP position

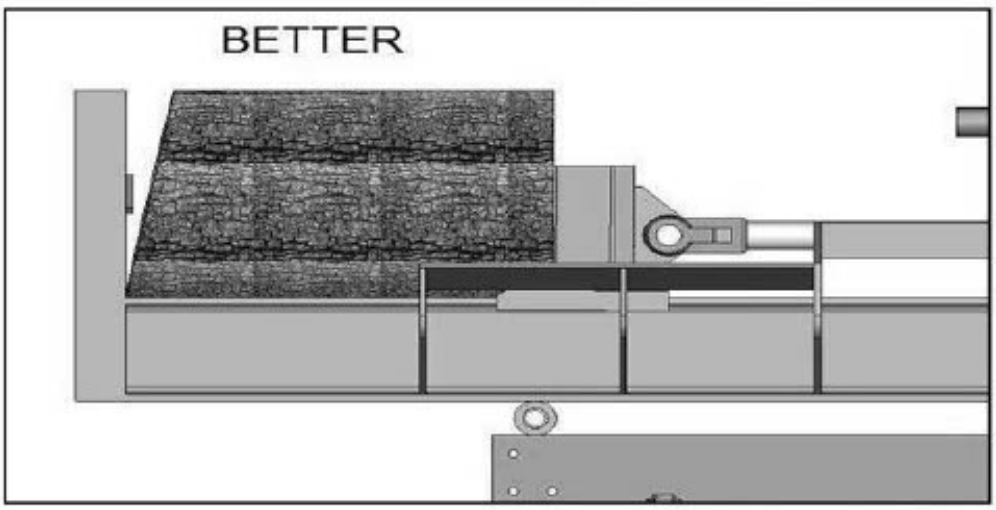
Fold the jockey wheel.

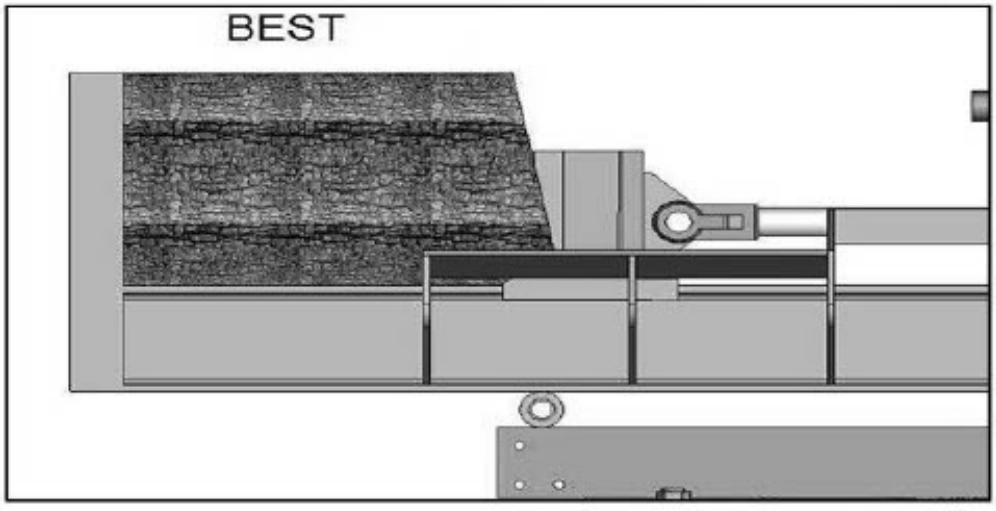
Hook to tow vehicle.

⚠ 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

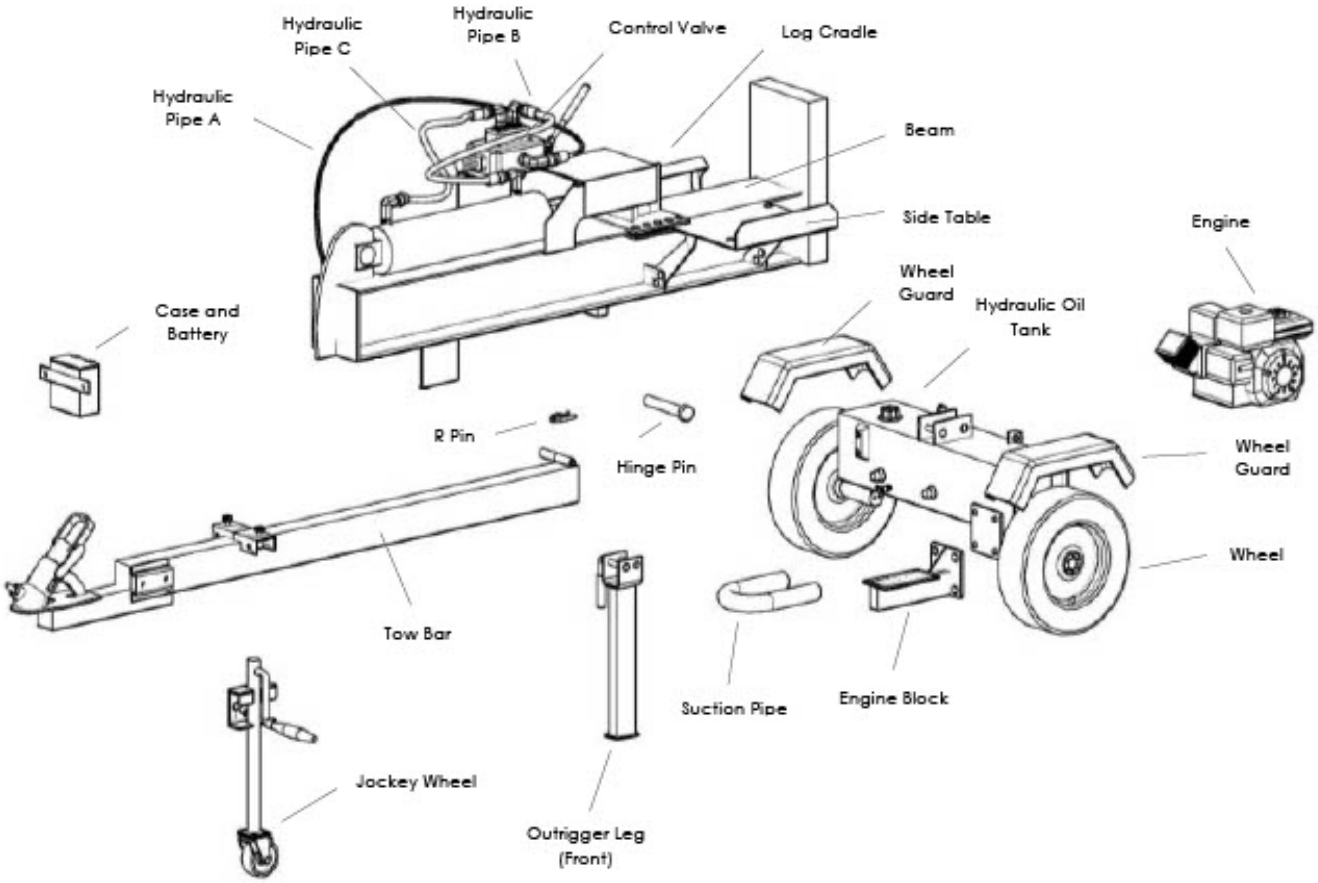
Work force.....	40T/ 50T/ 60T
Maximum Flow	16GPM/18GMP/18GPM
Hydraulic Fluid Capacity	25L/ 30L / 35L
Hydraulic Fluid Type	10wt AW32, ASLE H-150, or ISO32
Coupler Size	50mm Ball
Maximum Towing Speed.....	45MPH
Maximum Log Length	25.6"
Hydraulic Cylinder Bore	5"/ 5.5" /6"
Hydraulic Cylinder Stroke	23.6"
Maximum Log Diameter	21.6"/23.6"/25.6"

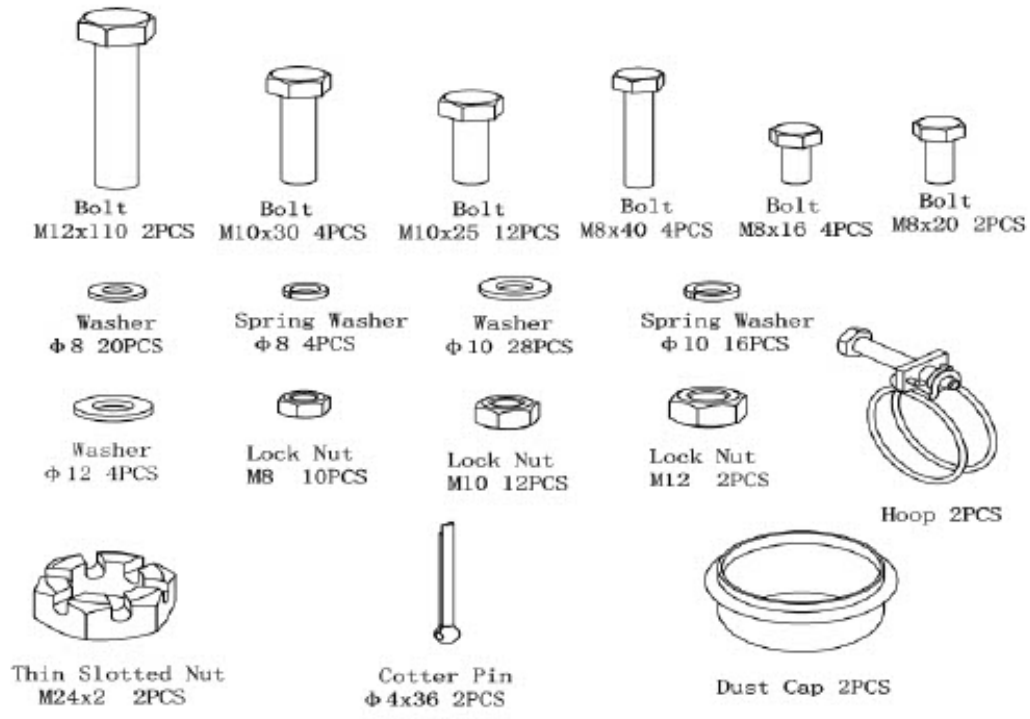
TROUBLESHOOTING

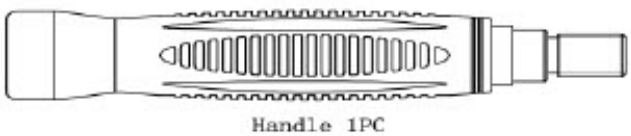
Problem	
Cylinder rod will not move	SOLUTION: A,D,E,H,J
Slow cylinder rod speed when extending or retracting	SOLUTION: A,B,C,H,I,K,L
Wood will not split or splits extremely slowly	SOLUTION: A,B,C,F,I,K
Engine bogs down during splitting	SOLUTION: G,L
Engine stalls under low load condition	SOLUTION: D,E,L,M

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.

Components in the Package







Handle 1PC

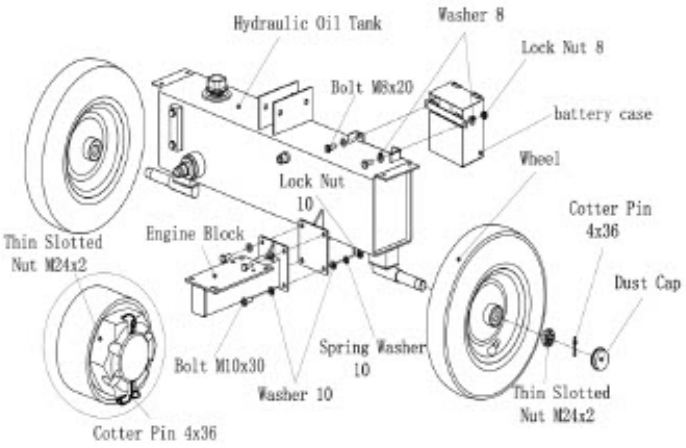
ASSEMBLY

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.

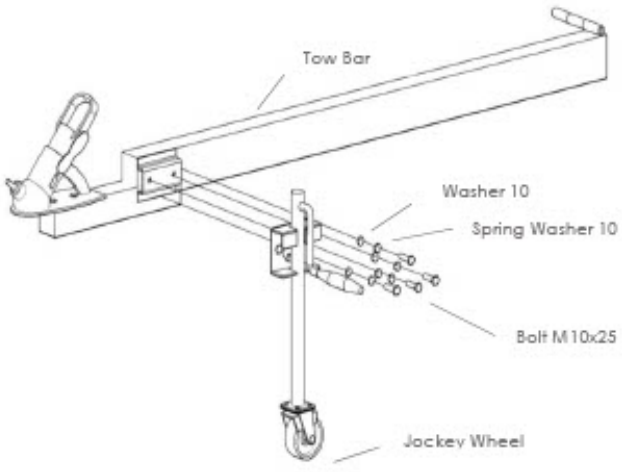
Step 1: Wheel Assembly

Fix the wheel to the oil tank axle by a Slotted Nut M24x2, Cotter Pin Ø4x36 and attach the dust cap. Attach engine block to oil tank with Bolt M10x30, Flat Washer 10 and Spring Washer 10, and fix by Screw M10. Attach battery case on oil tank with Bolt M8X20, Washer 8 and Lock Nut 8.



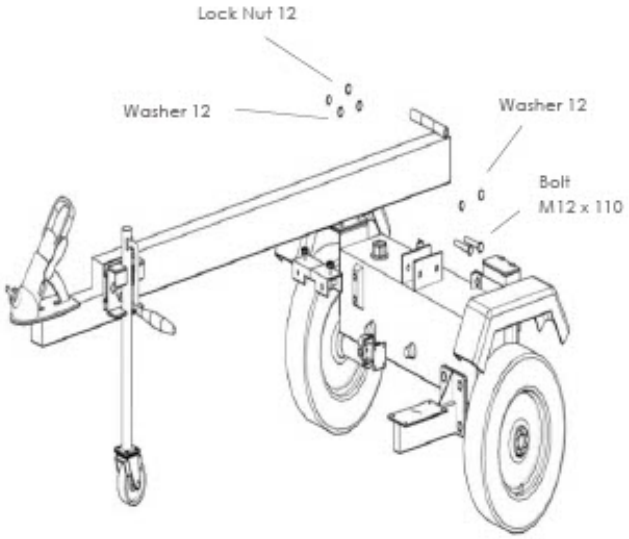
Step 2: Attach jockey wheel to tow bar

Attach the jockey wheel to tow bar fix with Bolt M10x25, Spring Washer 10 and Washer 10.



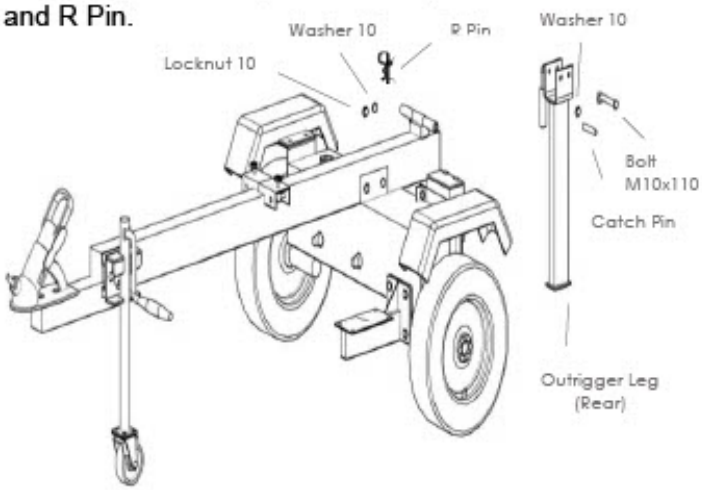
Step 3: Attach Tow bar to Oil Tank

Attach the tow bar to the toil tank with Bolt M12X110, Washer 12, and Lock Nut M12.



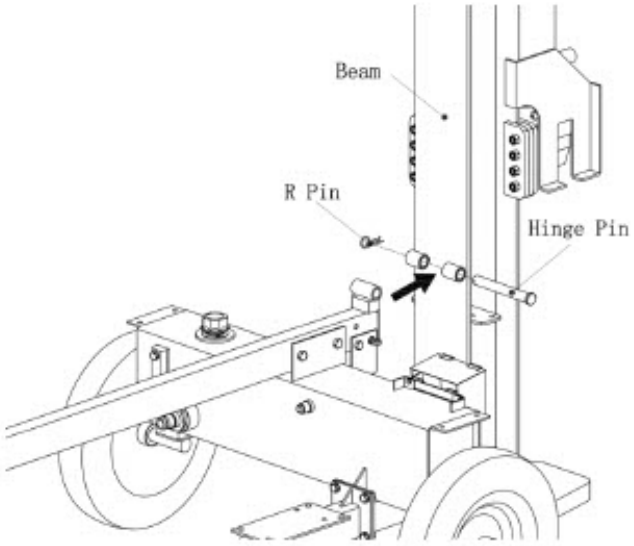
Step 4: Attach rear outrigger

Attach the rear outrigger leg to tow bar with Bolt M10X105, Catch Pin, Lock Nut 10, Flat Washer and R Pin.



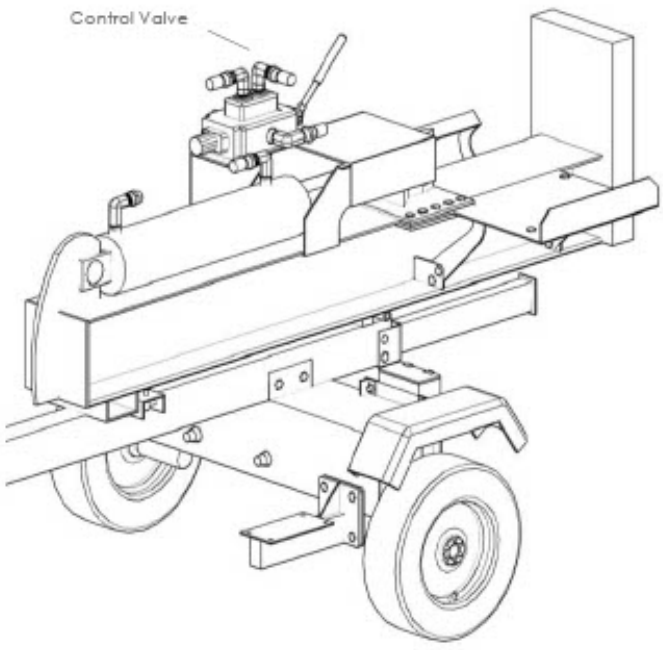
Step 5: Attach Tow Bar to Beam

Attach the tow bar to beam with hinge pin and R pin.



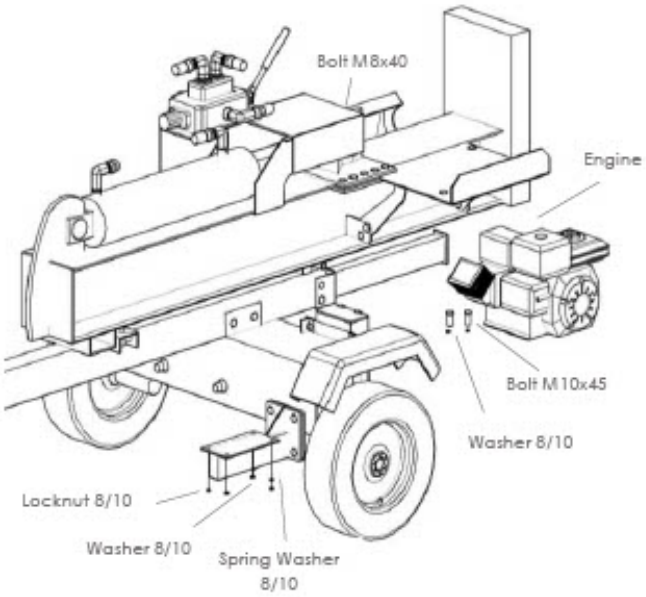
Step 6: Attach control valve to cylinder

Assemble the control valve on cylinder.



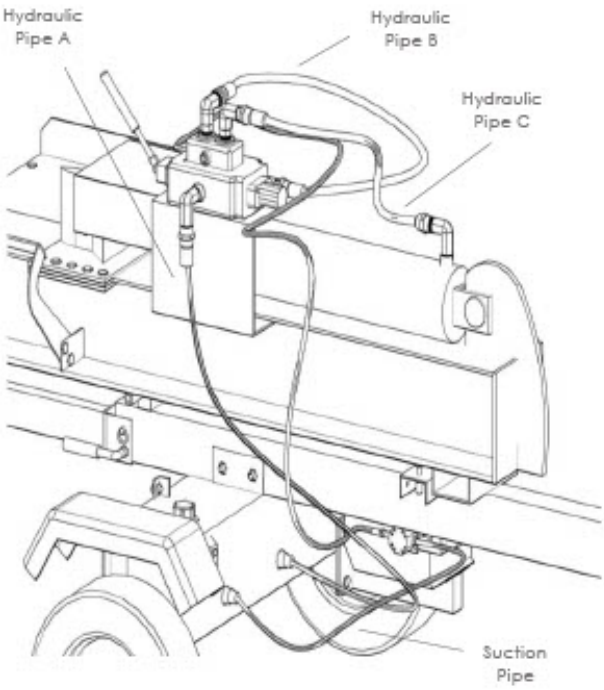
Step 7: Attach the engine

Attach the engine to engine block with Bolt M8x40, Spring Washer 8, Washer 8, Lock Nut M8 / M10X45, Spring Washer 10, Lock Nut M10.



Step 8: Assemble the pipes

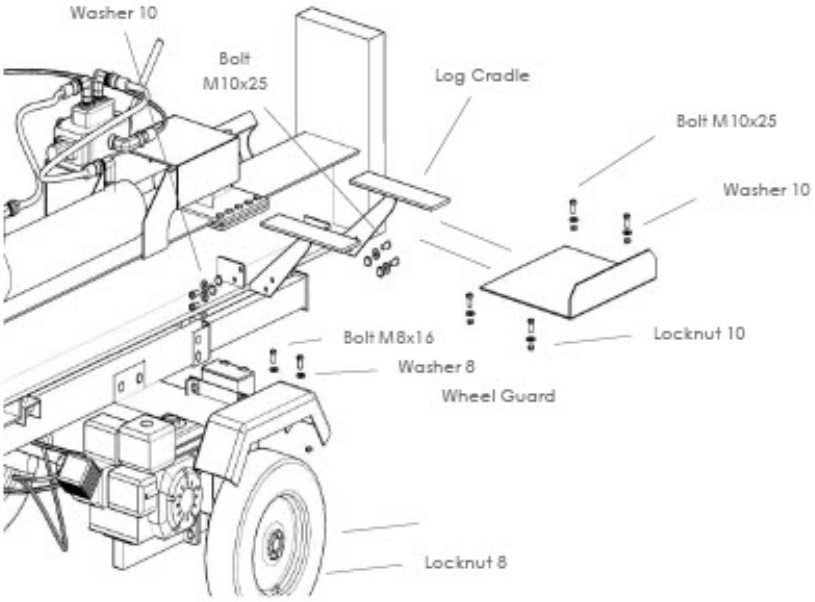
Assemble all the pipes according to the picture.



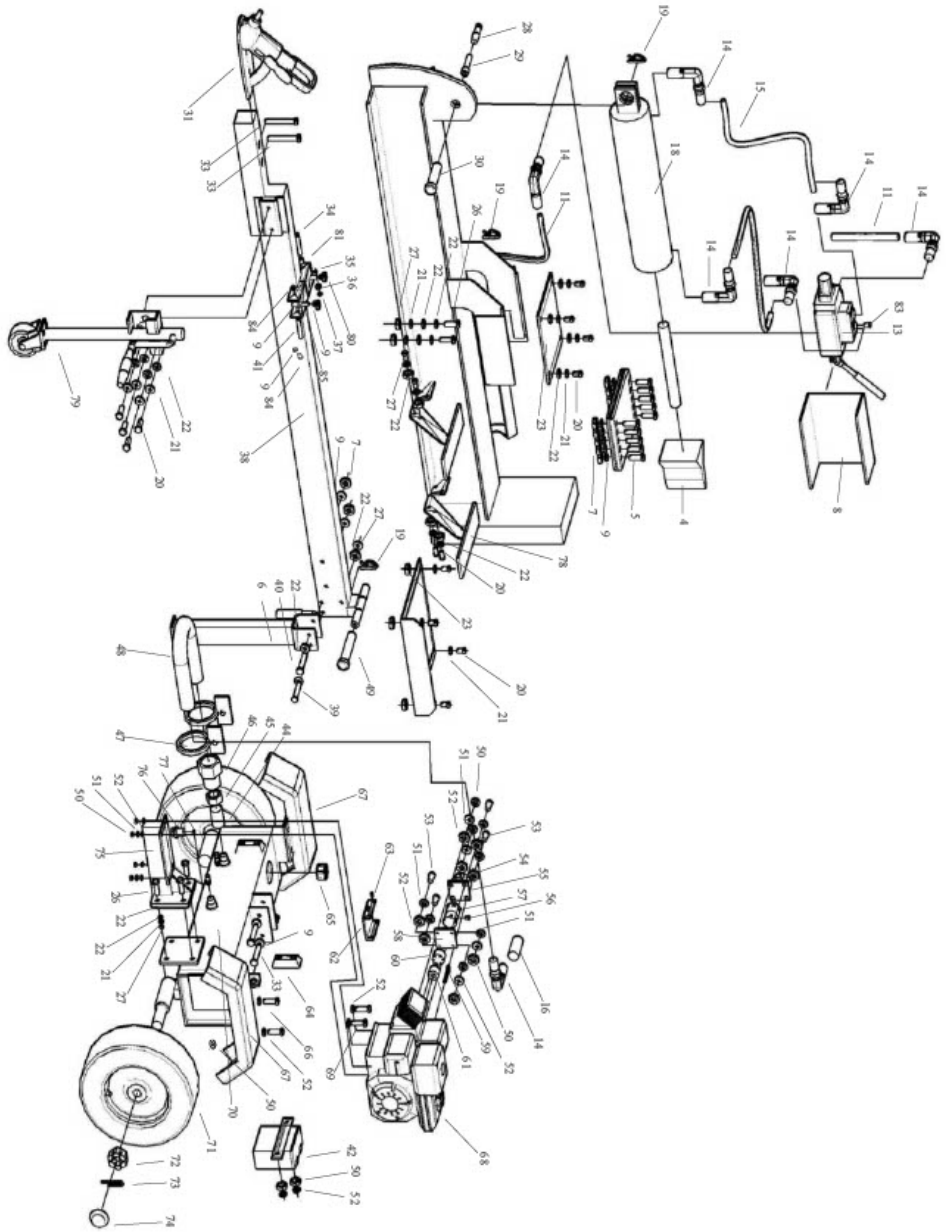
Step 9: Attach Log Cradle

Attach log cradle with side table to beam with Bolt M10x25, Washer 10 and Lock Nut M10.

Attach wheel guard to the oil tank with Bolt M8x16, Washer 8 and fix with Lock Nut 8.



EXPLODED VIEW AND PARTS LIST



No.	Description	Qty
1	I Beam	1
2	Bolt M12x40	36
3	Flat washer Φ12	6
4	Wedge	1
5	Bolt M12x45	10
6	Outrigger Leg (Rear)	1
7	Lock Nut M12	13
8	Control Valve Plate	1
9	Side Table	1
10	1/2" -22x1.5 Corner Connector	1
11	Hydraulic pipe B	1
12	Pipe Connector	1
13	Control Valve	1
14	1/2" -1/2" BSP JIC Elbow	7
15	Hydraulic pipe C	1
16	Hydraulic pipe A	1
17	Hex Socket Head Cap Screws M12x55	1
18	Cylinder	1
19	R pin Φ3x73	4
20	Hex bolt M10x25	20
21	Spring washer Φ10	12
22	Flat washer Φ10	51
23	Log stripper reinforced plate	1
24	Log stripper (left)	1
25	Log stripper (right)	1
26	Hex bolt M10x30	10
27	Lock nut M10	25
28	Handle grip	1
29	Lever	1
30	Cylinder lock pin	1
31	Australian Version Hitch Ball	1
32	Hydraulic pipe D	1
33	Hex bolt M12x75	4
34	I beam lock pin	1
35	Return spring	1
36	Flat washer Φ20	1
37	Shaft Circlip Φ19	1
38	Tow bar	2
39	Pin	1
40	Hex bolt M10x110	1
41	Hinge pin	2
42	Battery and case	1

No.	Description	Qty
44	Net Type Oil Filter 40x180-J	1
45	Oil Filter Core ZG1 1/2	1
46	Inlet Pipe Fitting G1	1
47	Hoop	2
48	Suction Pipe	1
49	Hinge Pin	1
50	Luck nut M8	15
51	Spring washer Φ8	14
52	Flat washer Φ8	24
53	Hex bolt M8x30	8
54	Gear pump	1
55	Woodruff Key	1
56	Hexagon Socket Set Screws M6x10	1
57	Gear Pump Coupling	1
58	Coupling housing	1
59	Ordinary Flat Key	1
60	Engine Coupling	1
61	Engine Bushing	1
62	Coupling Cover	1
63	Phillips Pan Head Screws M5x8	4
64	Oil gauge	1
65	Hydraulic Oil Tank Cover	1
66	Hex bolt M8x16	8
67	Wheel Guard	2
68	Engine	1
69	Hex bolt M8x40	4
70	Hydraulic Oil Tank	1
71	Wheel 16"	2
72	Thin Slotted Nut M24x2	2
73	Cotter Pin Φ4x36	2
74	Dust Cover	2
75	Engine Block	1
76	Oil Drain Plug M16x1.5	1
77	Groupware Washer Φ16	1
78	Log Cradle	2
79	Jockey wheel	1
80	Star knob	2
81	Lock pin bushing	1
82	Control valve plate	1
83	Hexagon Socket Head Cap Screws M8x40	2
84	Pin Φ3.2x16	4
85	Bolt	4