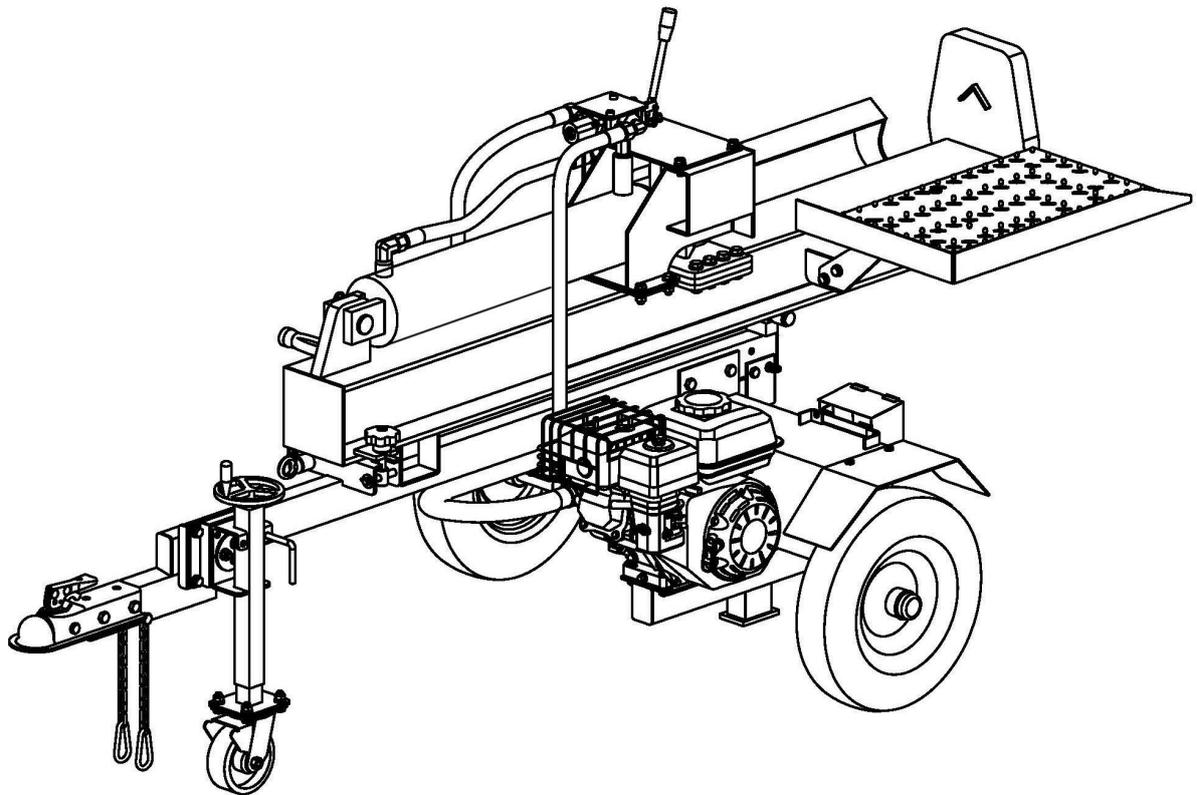

GASOLINE LOG SPLITTER

General Manual



Owner's Manual and Operating Instructions

Manual Content List

Page	Content
Page 3	General Manual Suitability Illustrate
Page 4	Machine component definitions
Page 5	Machine assemble instructions
Page 6-11	Packing List & Main Spares
Page 12-13	Operation instruction
Page 14	Maintenance and storage & Troubleshooting
Page 15	Exploded view for Regular model
Page 16	Exploded view for Upgraded model

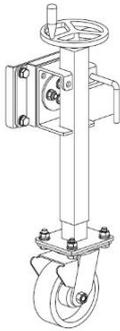
The General Manual Suitability Illustrate

To unify the manual in one, we use this general manual which is suitable for

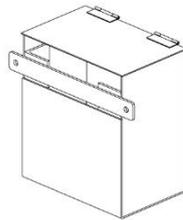
- basic standard & **upgrade spares** log splitter
- single control valve handle & two valve handle
- regular standard & European Market standard
- Similar Tonnage such as 20/22Ton,26/27Ton,35/36Ton those with different customized label tonnage markers.

Upgrade spares Illustrate which mainly includes

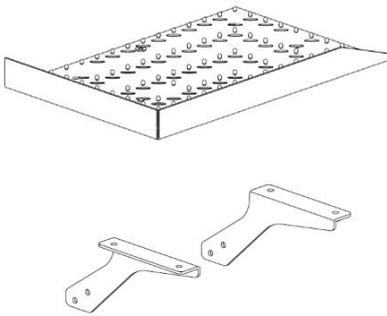
- . welded cross wedge
- .big working table replaces one of the wood cradle
- .the front jockey wheel
- .the battery and battery case for electric start engine



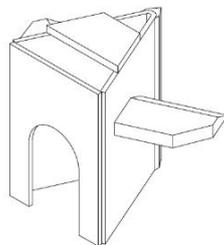
Jockey wheel



battery case



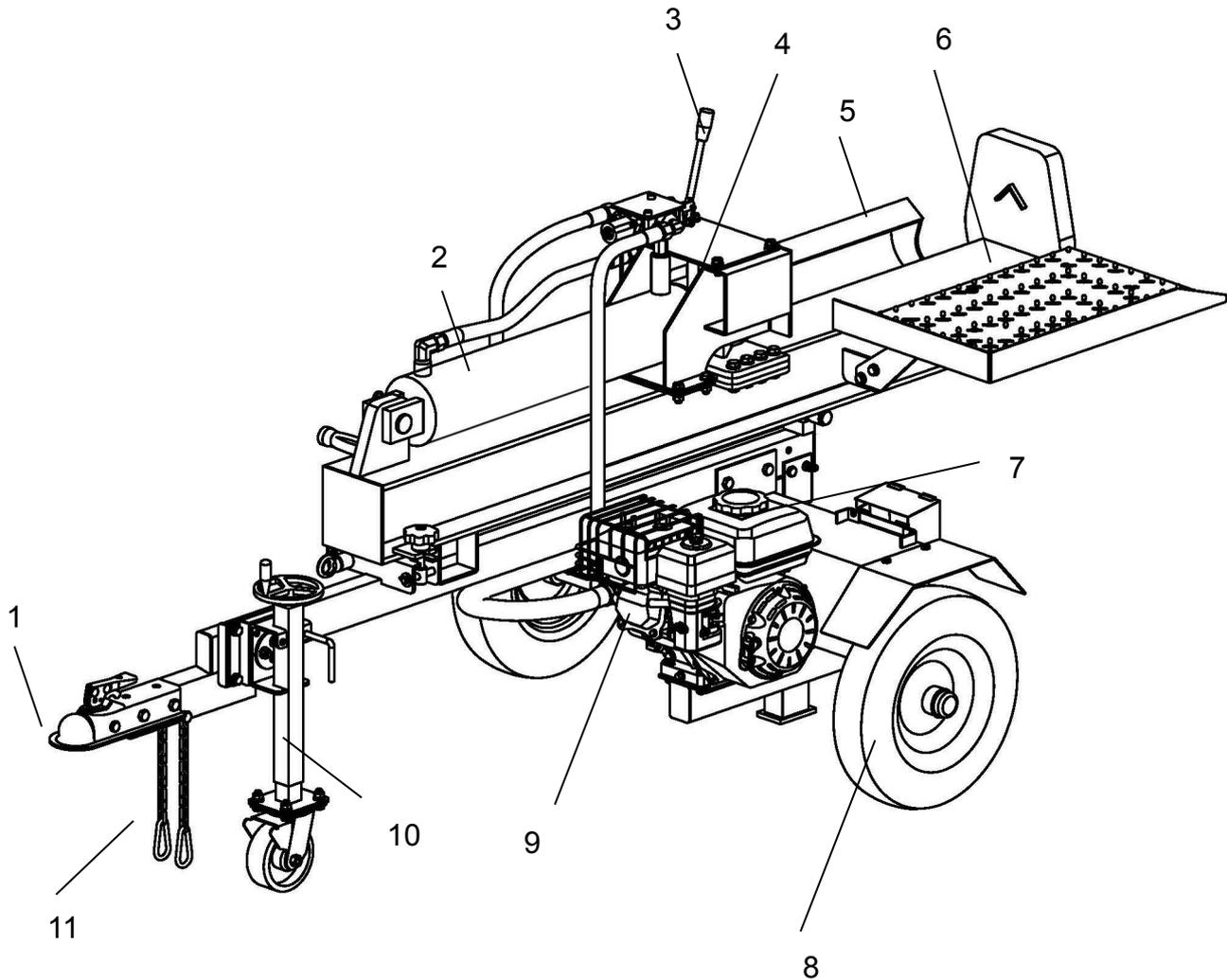
big working table



welded cross wedge

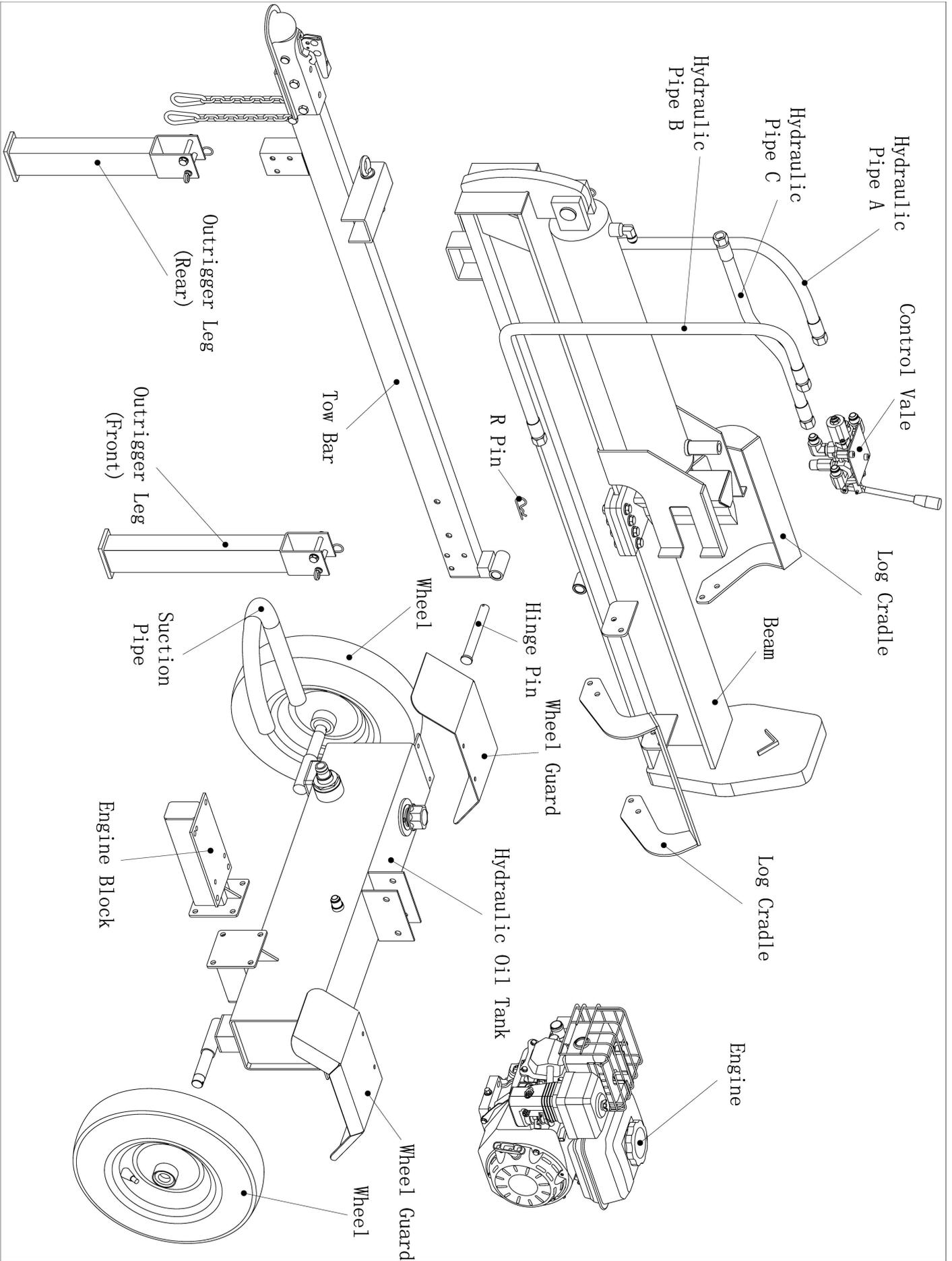
Please understand that few parts of the machine you have bought may be different with the photo you have seen on the front page of the manual

MACHINE COMPONENT DEFINITIONS



- 1.) **Coupler.** Attaches the log splitter to your vehicle. Different market with different coupler
- 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. Two handle only for European market
- 4.) **Wedge.** The wedge features a taper that makes splitting easier, welded cross can put on
- 5.) **Log Cradle.** Keeps the log on the beam without operator assistance. Can upgrade big table
- 6.) **Beam.** The beam is made of steel H beam (also called H-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.) **Leg.** The leg supports the log splitter while operating. The leg should be raised while towing(see Operation Instructions).
- 11.) **Safety Chains.** A safety feature to prevent loss of log splitter while towing.

Packing List & Main Spares



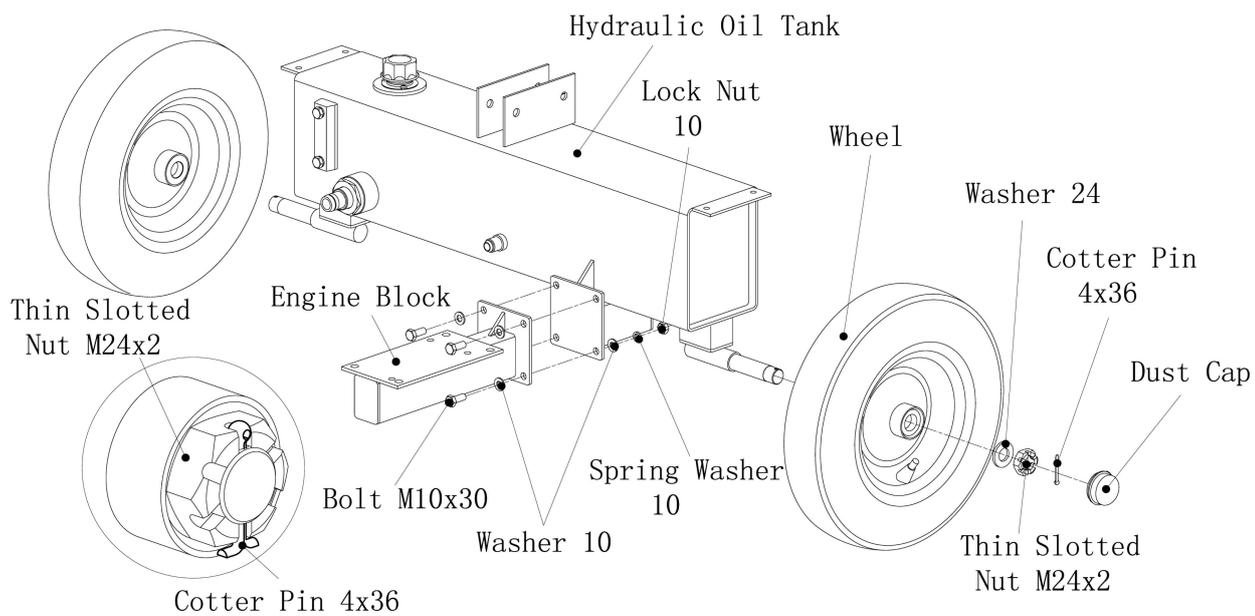
ASSEMBLY

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

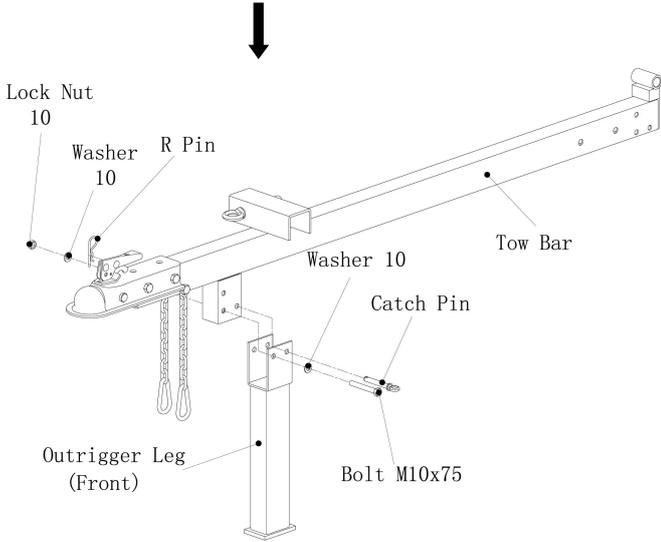
Fix the wheel to the oil tank by the slotted nut , cotter pin and attach the dust cap.



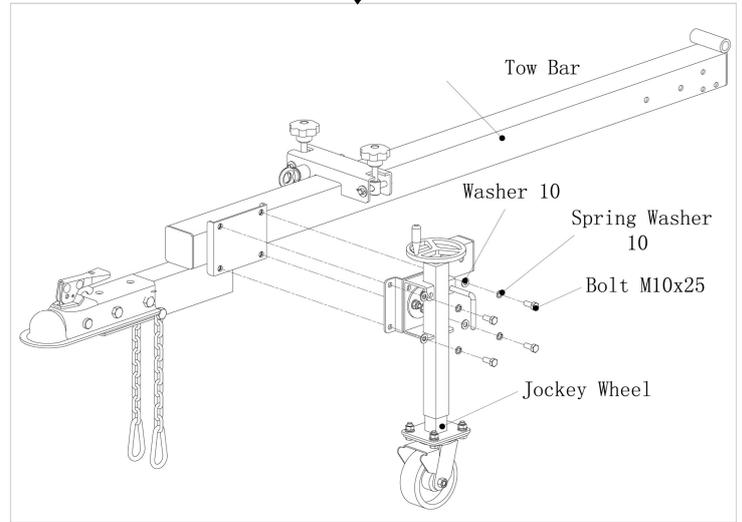
Step 2: Attach Tow bar and Support Leg

Fix the support Outrigger leg to the tow bar by the catch pin, Bolt M10X75, Lock Nut M10 and R Pin.

For regular standard model

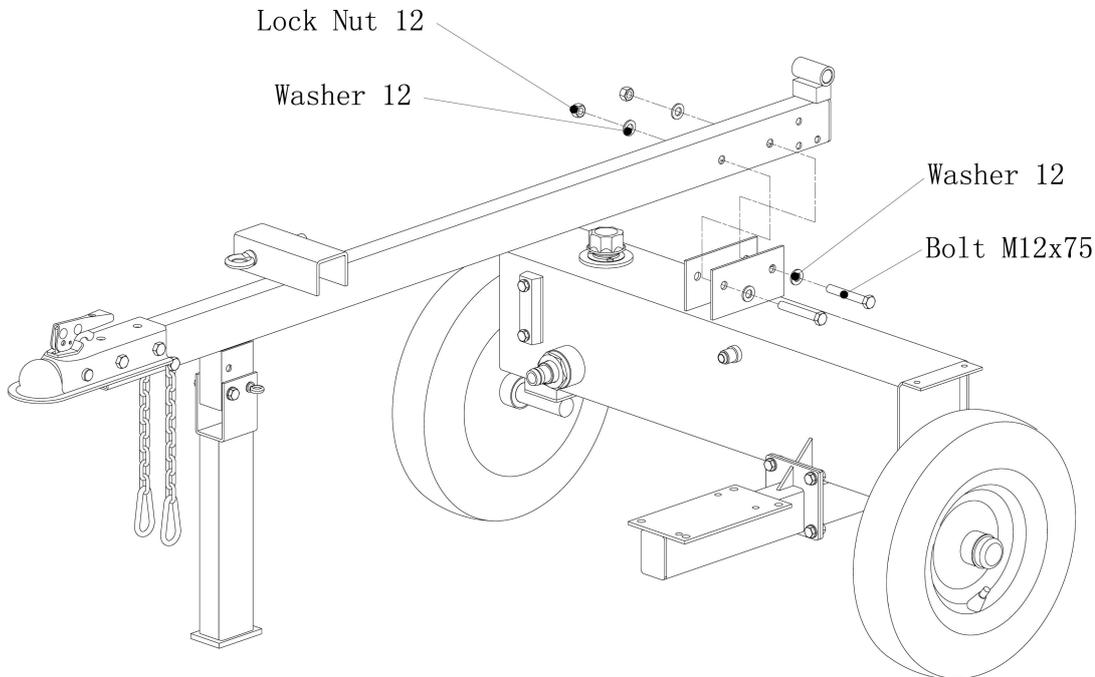


For upgraded jockey wheel



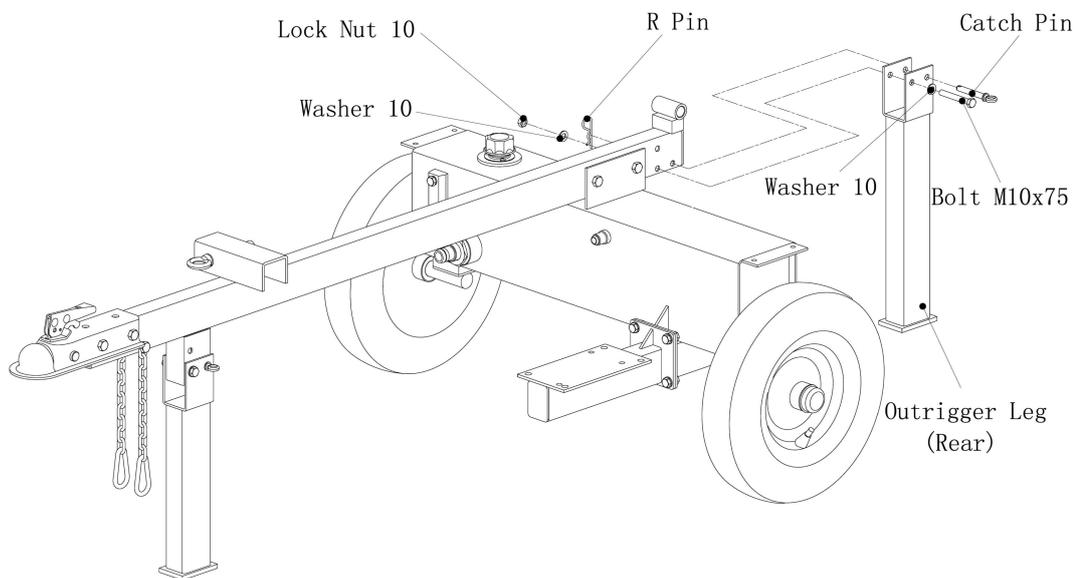
Step 3: Attach Tow bar to Oil Tank

Fix the tow bar to the oil tank by using hex bolts M12 and lock nuts M12



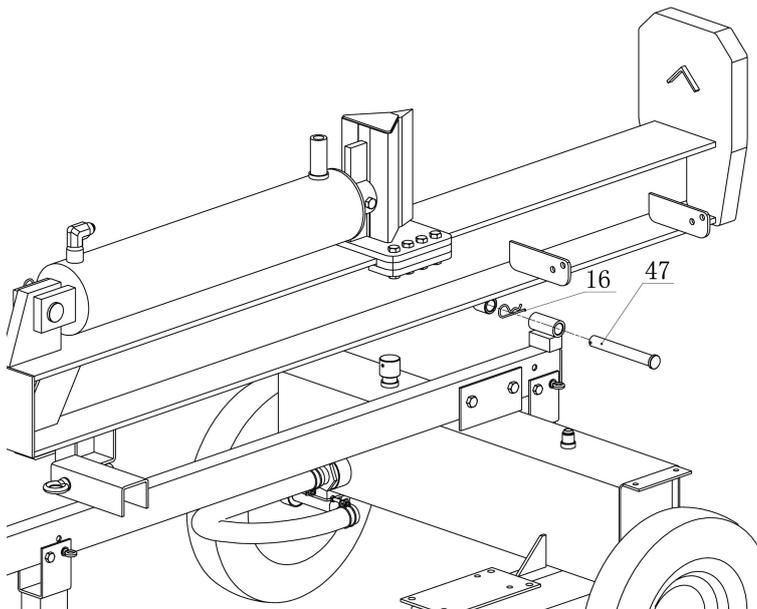
Step 4: Assemble Rear Support Leg

Fix the Rear Outrigger leg to the tow bar by a catch pin ,Bolt M10,Lock Nut M10and R Pin.



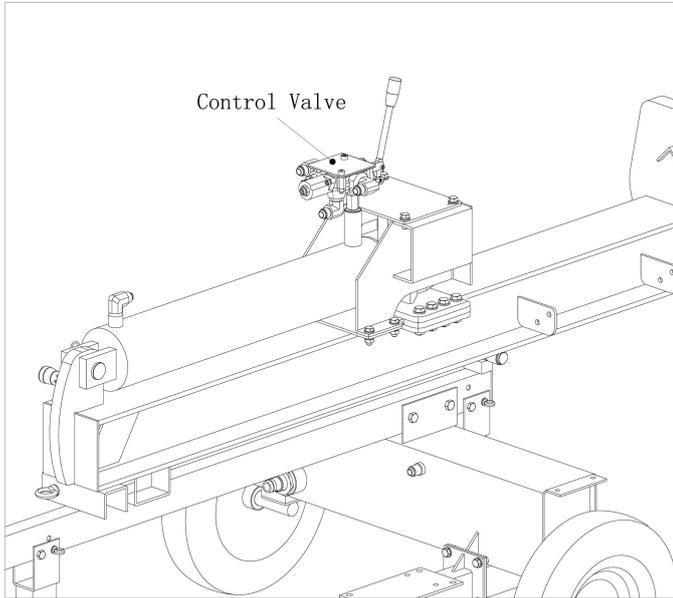
Step 5: Attach Hydraulic Cylinder

1.Assemble the Hydraulic cylinder and H-beam comb to the tow bar by using beam pin #47, and lock it by R Pin #16

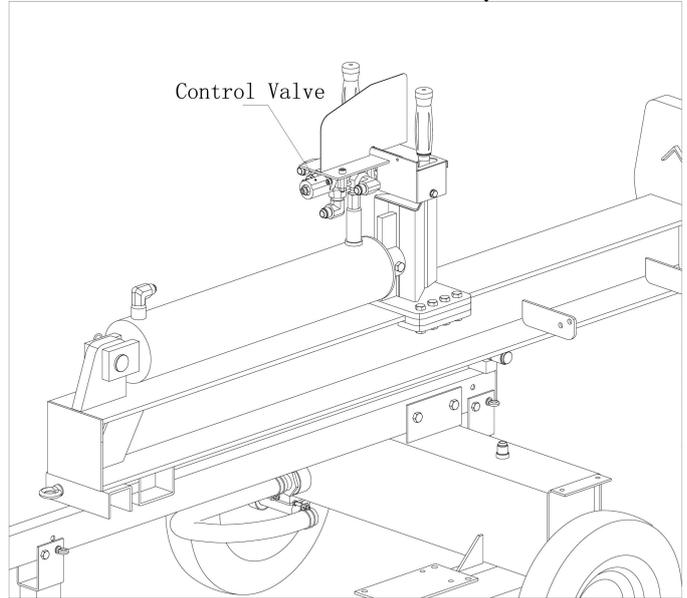


Step 6: Attach Control Valve

Attach Control Valve Assembly with Oil Cylinder as the following. **(for single valve model)**

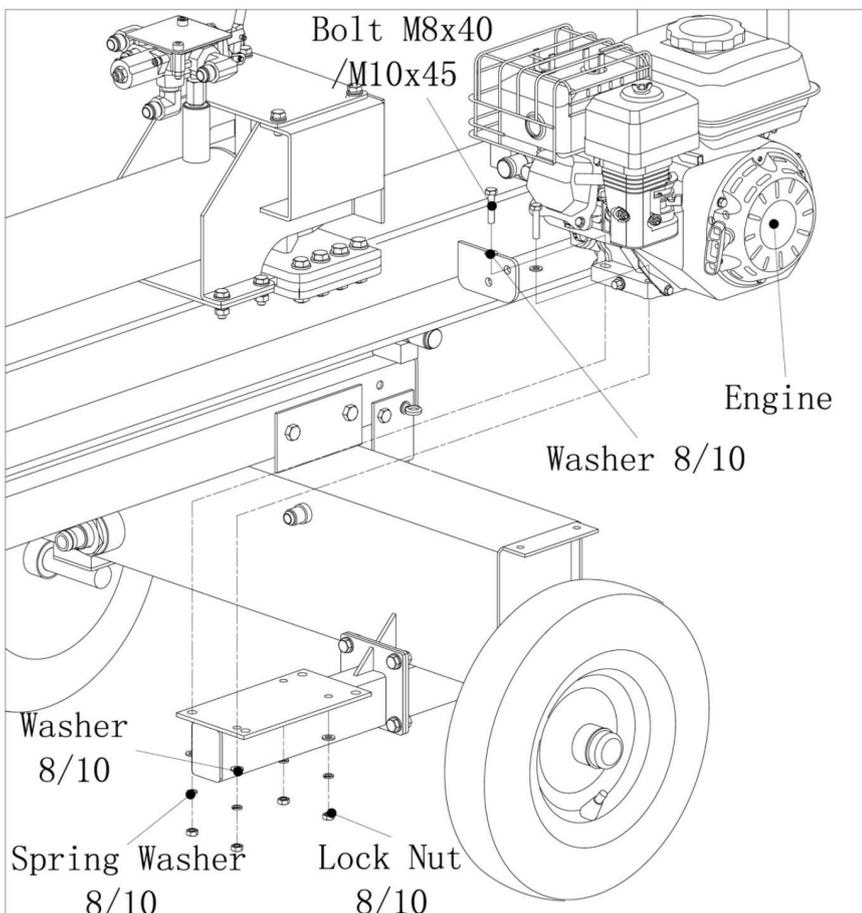


Attach Control Valve Assembly with Oil Cylinder as the following. **(for Two valve model)**



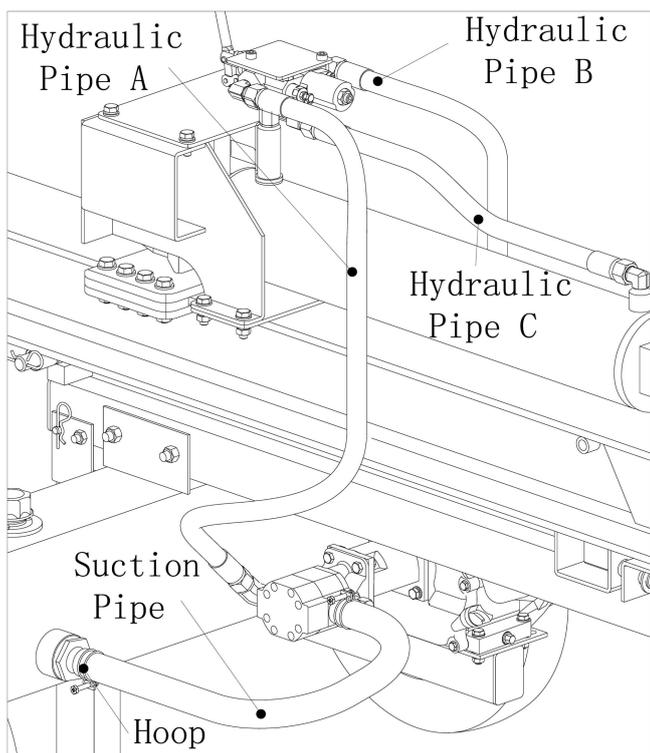
Step 7: Attach Engine

Assemble the engine to the engine setting board by using hex bolt M8 .flat washer and lock washer, lock nut



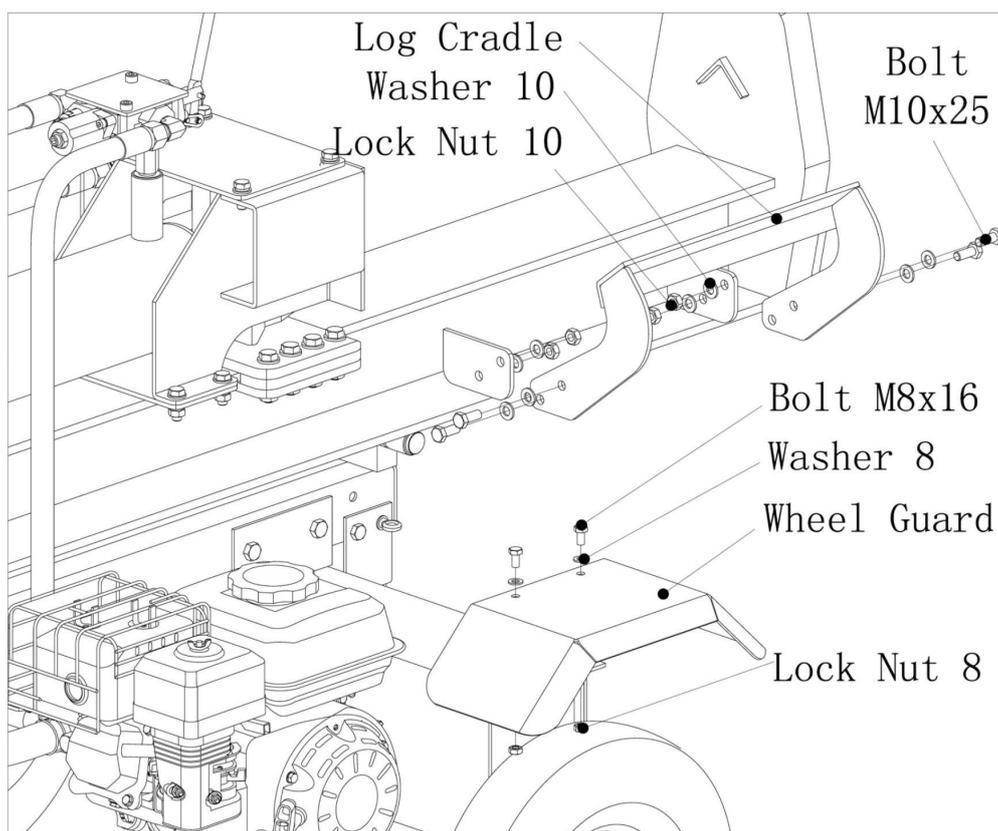
Step 8: Attach Hydraulic Hoses

Attach all the hoses to the machine as the following, including Hydraulic oil hose A, oil hose B, oil hose C and oil suction pipe.



Step 9: Attach Wheel Fender and Log Cradle.

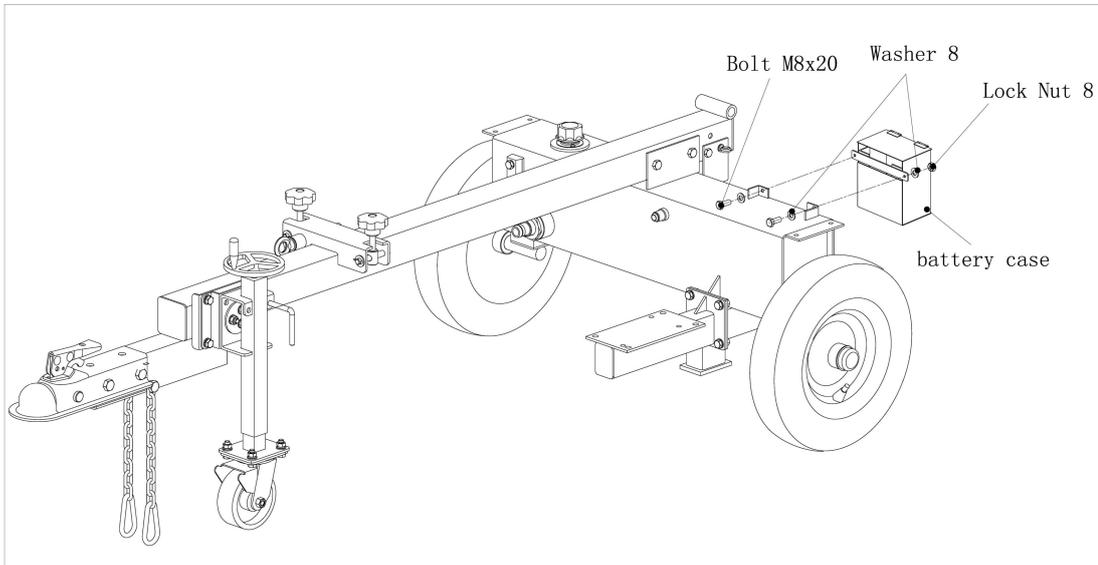
1. Attach left fender and right fender to the oil tank by using hex bolt M8, flat washer Ø8, and lock nut M10.
2. Attached left and right log cradles by using Bolt M10 and Lock Nut M10.



The following for upgrade models parts assemble

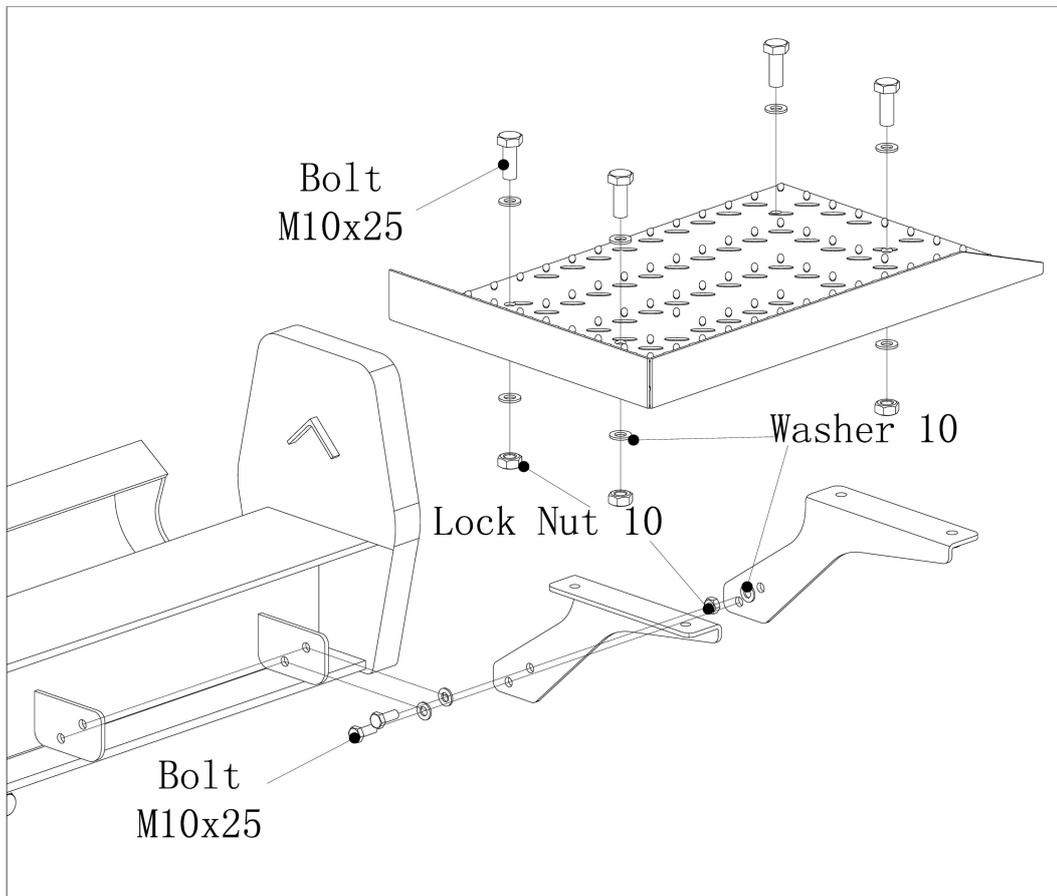
Attach battery case

Assemble the battery case to the oil tank by lock nut M8, washer, bolt M8



Attach big table

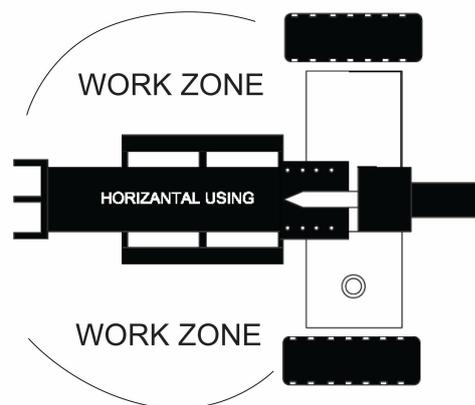
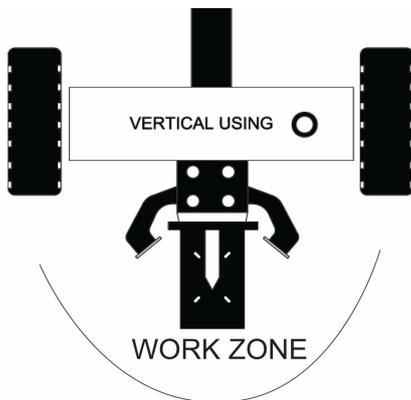
Assemble the big table to the H-Beam



⚠ 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

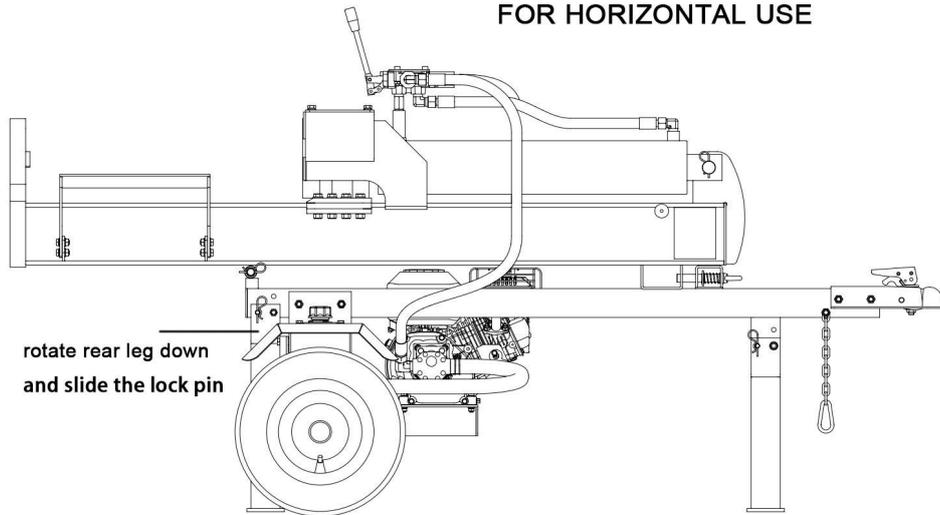


WARNING

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.

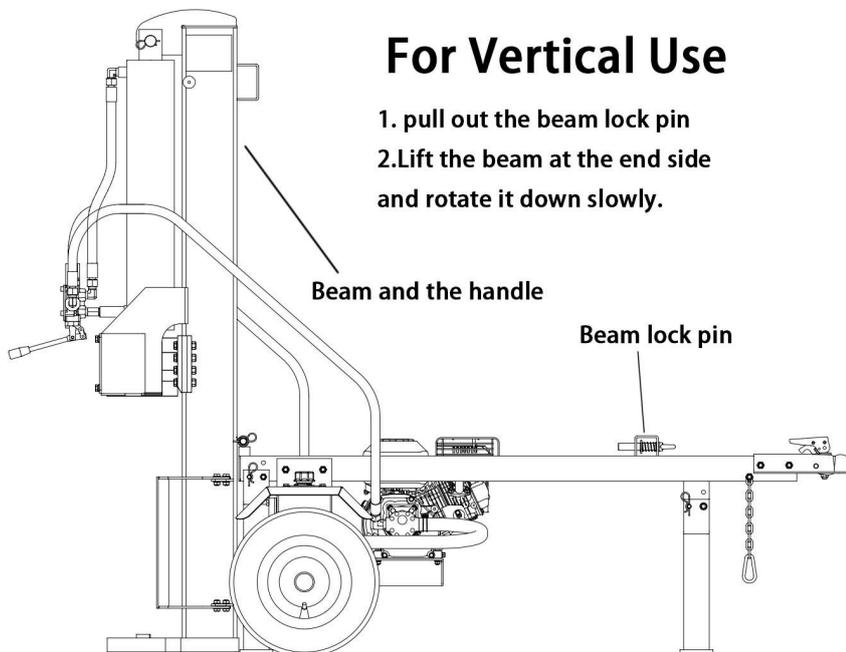
⚠ OPERATION INSTRUCTIONS

FOR HORIZONTAL USE

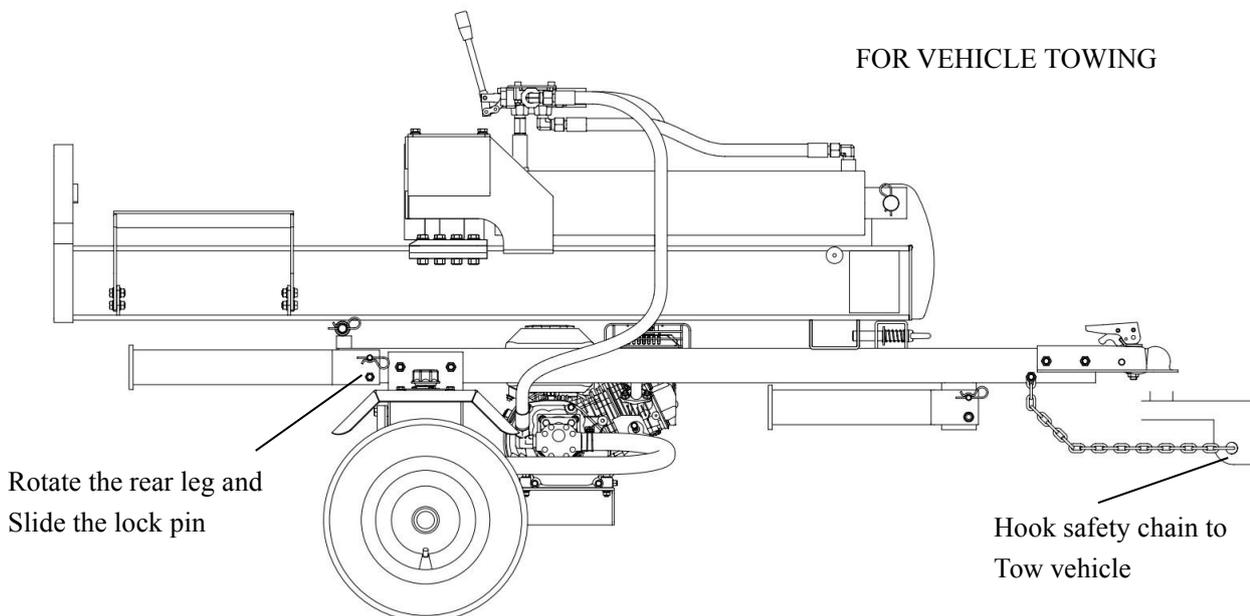


For Vertical Use

1. pull out the beam lock pin
2. Lift the beam at the end side and rotate it down slowly.

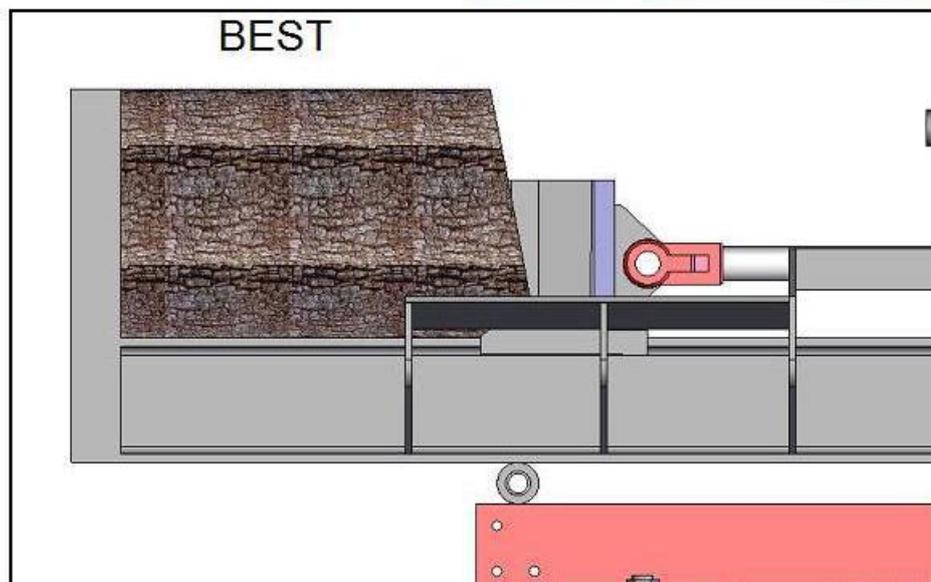
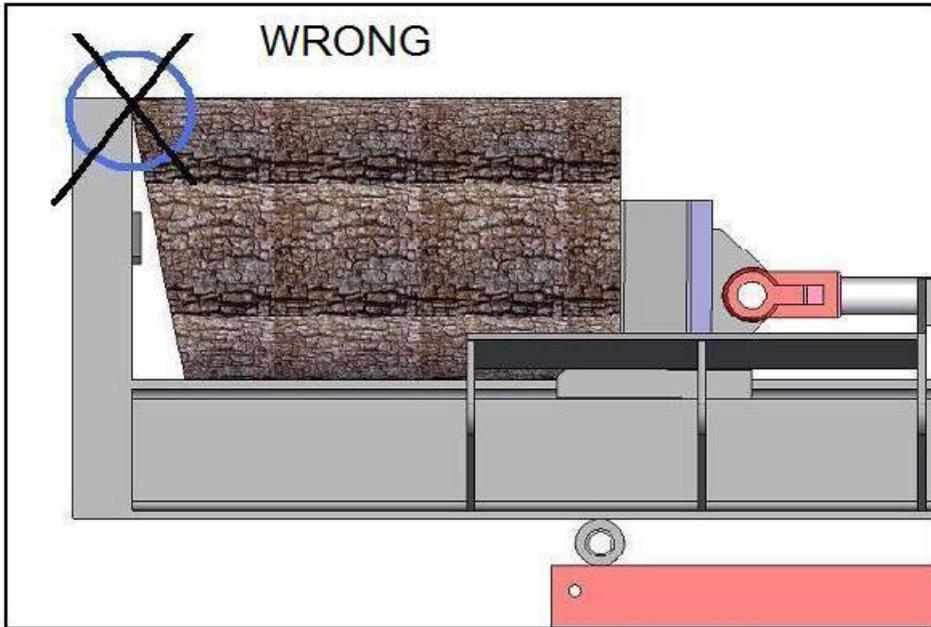


FOR VEHICLE TOWING



⚠ 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

TROUBLESHOOTING

Problem	Solution
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.

Specifications List

General Same for all specifications	
Maximum Pressure	3500psi
Maximum Towing speed	30 miles per hour
Maximum log length	25 inches
Hydraulic cylinder stroke	21 inches
Hydraulic fluid type	10WT AW32,ASLE H-150,OR ISO32

	22T	27T	30T	40T	50T	60T	65T
Pump Flow	11GPM	11GPM	11GPM	16GPM	16GPM	18GPM	18GPM
Hydraulic Fluid Capacity	3.5gal.	4gal.	5gal.	5gal.	5gal.	5gal.	5gal.
Hydraulic Cylinder Bore	4"	4.5"	4.5"	5"	5.5"	5.9"	6.1"
Max log diameter	500mm	550mm	550mm	600mm	650mm	700mm	700mm

The diameter listed is indicative of the maximum suggested size. A small log can not be so fast to split when it contains knots or a particularly tough fiber. On the other hand, it may not be difficult to split logs with regular fibers even if its diameter exceeds the maximum indicated above.