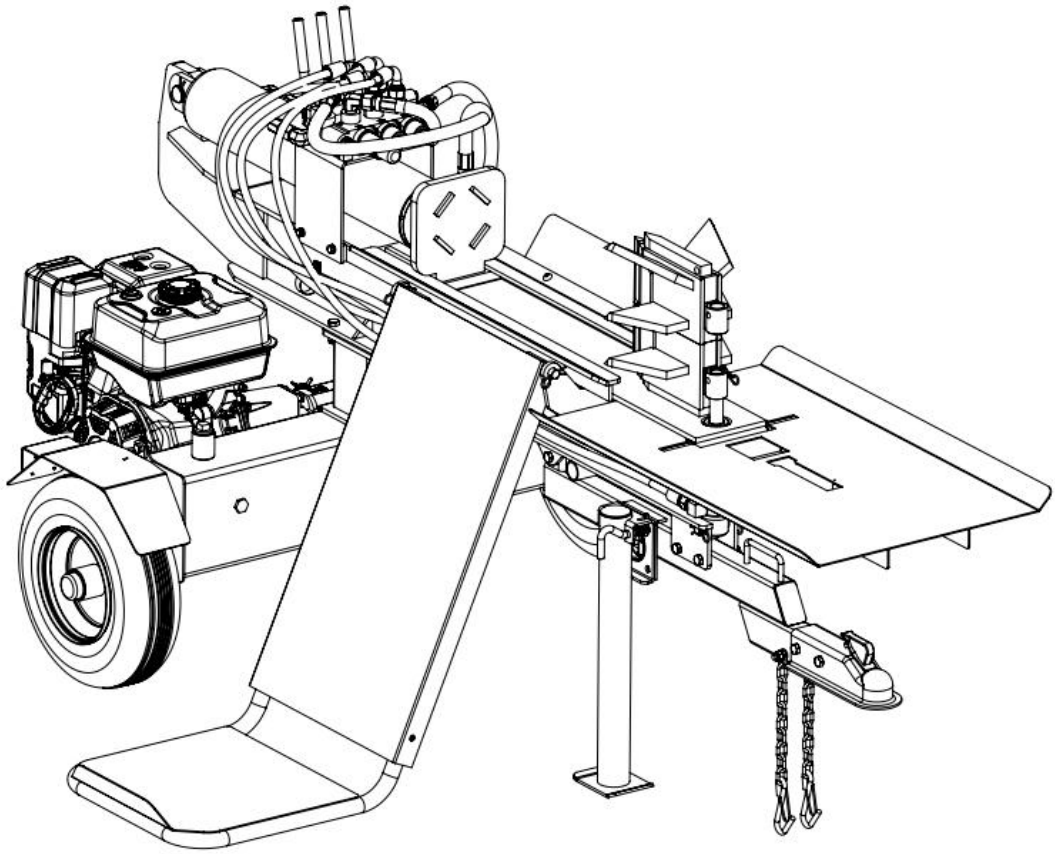
BILT HARD

Using tips:
Video on Youtube

35 TON LOG SPLITTER



Instruction & Assembly

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

Customer Support (888) 680-2849

inquiry@bilthardusa.com

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GENERAL WARNINGS

READ and UNDERSTAND this manual completely before using Log Splitter.

Operators must read and understand all safety and warning information, operating instructions, maintenance and storage instructions before operating this equipment. Failure to properly operate and maintain the log splitter could result in serious injury to the operator or bystanders.

Operation Warnings

- Do not carry passengers, sit or stand on the log splitter at any time.
- Do not allow children to play on, stand upon or climb on the log splitter.
- Always inspect the log splitter before using to assure it is in good working condition.
- Replace or repair damaged or worn parts immediately.
- Always check and tighten hardware and assembled parts before operation.
- Do not exceed the equipment maximum load capacity.
- Avoid large holes and ditches when towing the equipment.
- Always operate the log splitter on clear and level ground.
- Do not operate the log splitter at night, only during daylight hours.
- Always slow down when towing over rough terrain, streams, ditches and hillsides.
- To avoid personal injury and/or equipment damage **DO NOT EXCEED 45 MPH**.
- Always refer to the vehicle owner's manual for proper towing.
- Always secure and lock the log splitter to the vehicle hitch before towing.

Crush and Cut Hazards

- Always keep hands and feet clear from moving parts while operating the equipment.
- Always clear and keep work area clean and free of debris when operating.
- Always wear safety gear, eye protection, gloves and work boots when operating the log splitter.

⚠ WARNING

The warnings, cautions, and instructions outlined in this instruction manual cannot cover all possible conditions or situations that may occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product and must be supplied by the operator.

Assembly Is Required

This product requires assembly before use. See "Assembly" section for instructions. Because of the weight and/or size of the log splitter, it is recommended that another adult be present to assist with the assembly. **INSPECT ALL COMPONENTS** closely upon receipt to make sure no components are missing or damaged.

Hazard Signal Word Definitions

	**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.**
	**DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**
	**WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**
	**CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**
	**CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.**

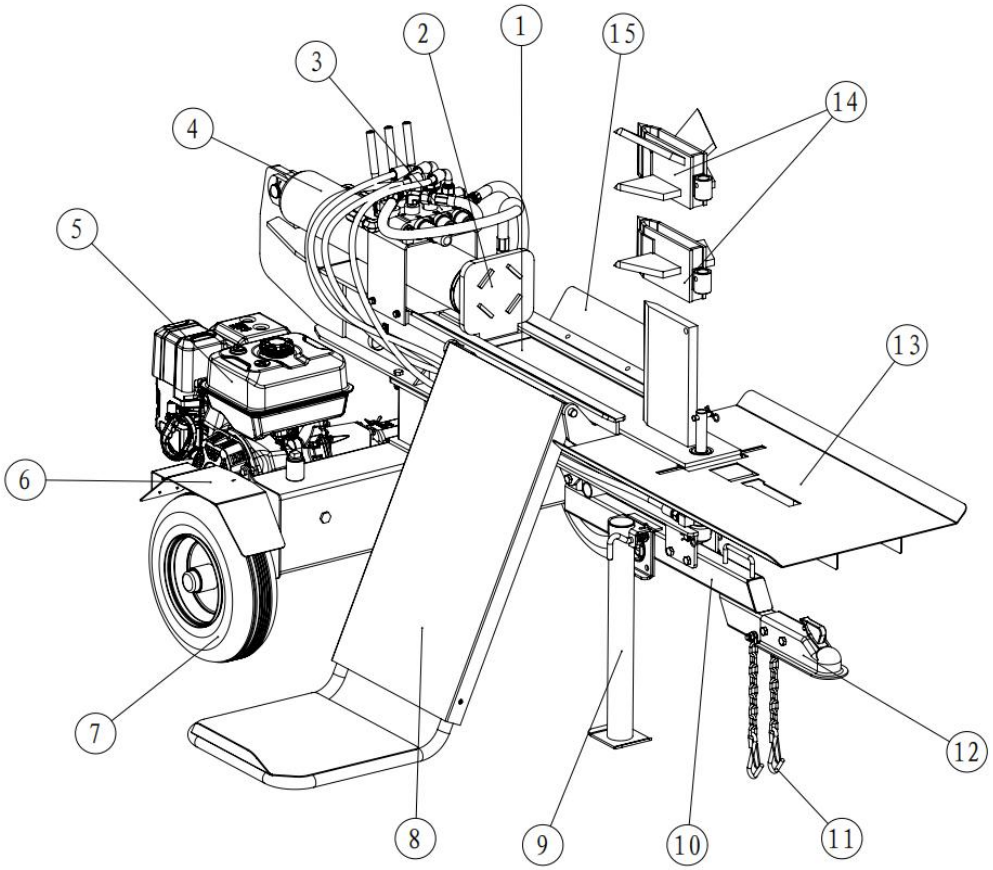
ABOUT YOUR LOG SPLITTER

This log splitter has a steel construction. When there's work to be done, this log splitter will get the job done fast. It is designed to work in a horizontal direction. It is easy to use and maintain. Never exceed the rated capacity of when operating the log splitter.

Technical specifications on the log splitter are provided in the“Specifications”section of this manual.

Controls and Features Identification

Read this owner's manual before operating the equipment. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.



1、Beam

2、Ram Bracket - Pushes the log through the splitting wedge.

3、Control Valve - Control the movement of the ram bracket, log lift table, and 4/6-way wedge.

4、Hydraulic Cylinder - 4.7" bore and 23" stroke.

5、Engine - Air cooled engine powers the hydraulic pump.

6、Fenders

7、Wheels - Maximum rated towing speed is 45 MPH.

8、Log Lift Table - Lift the logs from the ground and raise them to the same level as the beam.

9、Support Leg - Supports the log splitter while operating.

10、Tow Bar - Move with ATV & Lawn/Garden Tractor.

11、Safety Chains - Safety feature to prevent loss of log splitter while towing.

12、2" Coupler - Attaches the log splitter to the 2" ball.

13、Log Catcher - Provide a platform for placing the split logs.

14、4/6-Way Wedge - Split the logs into different sizes according to requirements.

15、Short Log Catcher

⚠ WARNING

Read and follow all instructions for assembly and operation. Failure to properly assemble this equipment could result in serious injury to the user or bystanders, or cause equipment damage.



Engine shipped without oil.
Before starting engine, fill with SAE 10W-30 motor oil. See engine manual for engine oil capacity.

Hydraulic Reservoir is shipped without oil.
When adding oil verify the oil level reads 1 from the top of hydraulic reservoir if marking is not shown fill to the neck.

Inspect all Log splitter components.
If you have damaged components: contact the freight company that delivered the log splitter and file a claim.

LOG SPLITTER ASSEMBLY

Set the shipping crate on a solid flat surface and carefully remove the lid. use two people and take all parts out of the shipping crate and inspect the components to ensure there are no missing pieces before starting to assemble the log splitter follow steps 1 through10.

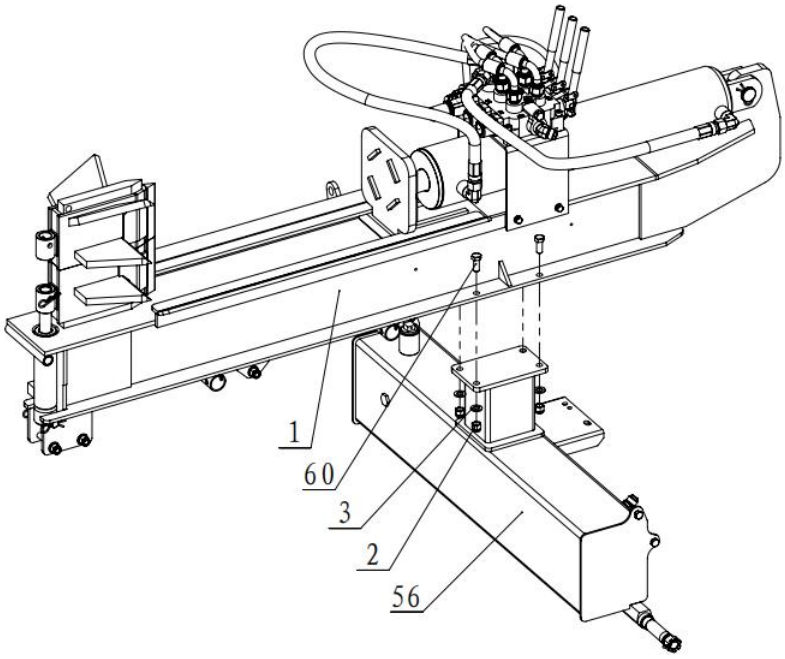
Tools required

- Rubber or Wooden Hammer
- Wrenches
- Large Adjustable Wrench
- Phillips or Standard Screwdriver
- Pliers

Part	Part Qty.	Hardware needed	Hardware Qty	Tool needed
Fenders	2	Bolt M10x25、Nut M10、Lock Washer Ø10, Flat Washer Ø10	4	1x16mm wrench or socket
Wheels	2	Castle Nut	2	1x30mm open-end wrench
		Cotter Pin Ø4 × 32	2	Needle nose pliers
		Axle cap	2	Mallet
Tow Bar	1	Bolt M12x85、 Lock Nut M12、Flat washer Ø12	3	1x18mm or 19mm wrench
Beam	1	Bolt M12x30、Lock Nut M12、Flat Washer Ø12	4	1x18mm or 19mm wrench
Engine	1	Bolt M10x45、 Lock Nut M10、 Flat washer Ø10	4	1x16mm or 17mm wrench
Suction Hose	1	Spring Loaded Hose clamp	2	clamp Tool
High pressure Hose	1	"O" Ring Ø10 x 2.65	1	1x27mm open-end wrench
Oil Return Hose	1			1x27mm open-end wrench
Short Log catcher	1	Bolt M10x30、 Nut M10、 Lock washerØ10、 Flat washerØ10	2	1x6mm allen wrench、 1x17mm wrench
Log catchers	1	Log Catcher Axle	1	
		R Pin	2	
Log Lift Table	1	Log Lift Table Axle	1	
		R Pin	2	

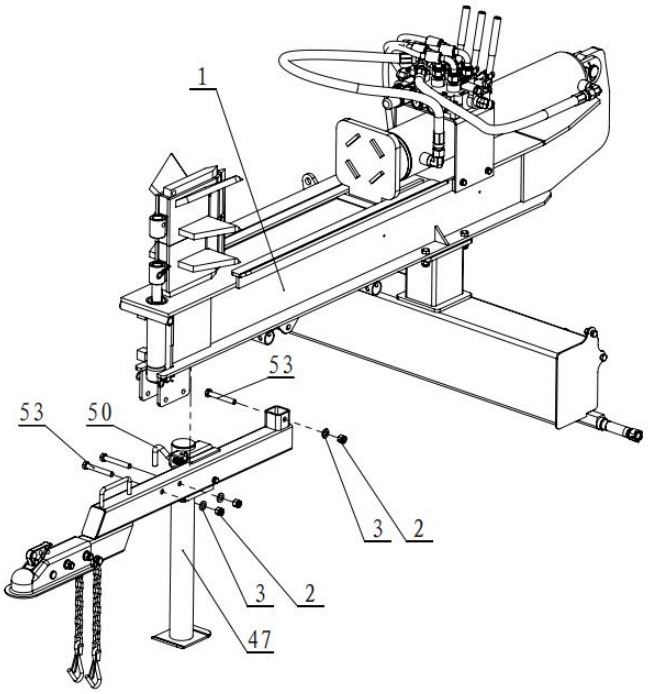
STEP1: Installation of the oil Tank and Beam

1. Support the oil tank (56#) with wooden blocks approximately 8.8" high, so that the distance from the center of the axle to the ground is approximately equal to the wheel radius.
2. Use a crane to move the beam (1#) into position for installation on the oil tank (56#). Secure it using four sets of bolts M12×30 (60#), flat washers M12 (3#) and lock nuts M12 (2#).



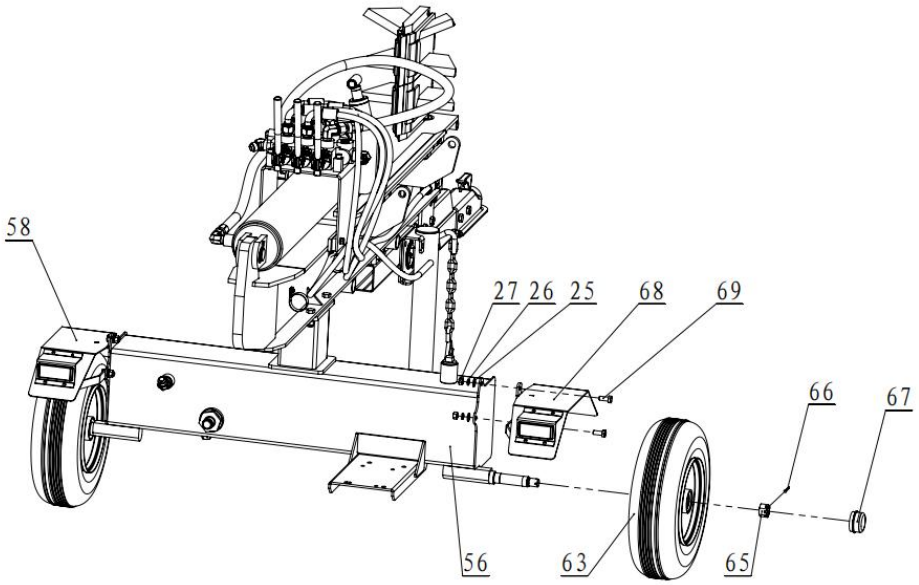
STEP 2: Installation of Support Legs and Beam

1. Remove the three sets of bolts M12×85 (53#), flat washers M12 (3#) and lock nuts M12 (2#) from the beam (1#), and set them aside for later use.
2. Install the support leg (47#) onto the beam (1#) at the position shown in the diagram. Secure it using the three sets of bolts M12×85 (53#), flat washers M12 (3#), and lock nuts M12 (2#).
3. Rotate the support leg (47#) until it is perpendicular to the ground, then secure it with the angled locking pin (50#). Ensure that the base tube is approximately level with the ground.



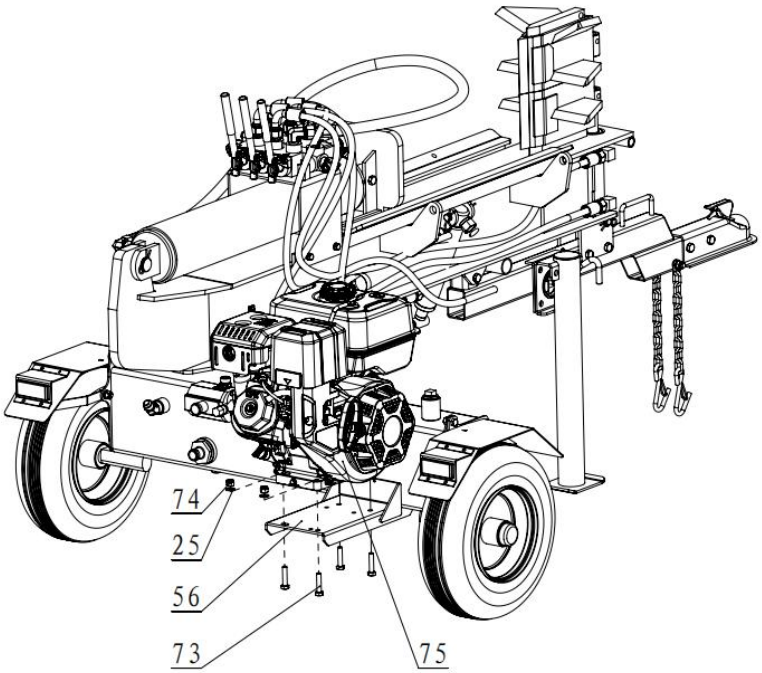
STEP 3: Install the Framework Beam

1. Use two sets of bolts M10 x 25 (69#), washers Ø10 (25#), lock washers Ø10 (26#), and nuts M10 (27#) to secure the left fender (68#) and the right fender (58#) to both sides of the oil tank (56#) as shown.
2. Remove the cotter pin (66#) from the axle of the oil tank (56#), and unscrew the slotted nut M20× 1.5 (65#). Set them aside.
3. Mount the wheels (63#) onto the left and right axles, ensuring that the tire valves face outward. Screw the slotted nut M20×1.5 (65#) onto both axles. Tighten the nuts to ensure the wheels (63#) rotate smoothly without lateral wobbling. Insert the cotter pin (66#) into the axle and bend it to secure.
4. Attach the axle caps (67#) onto both wheels (63#).



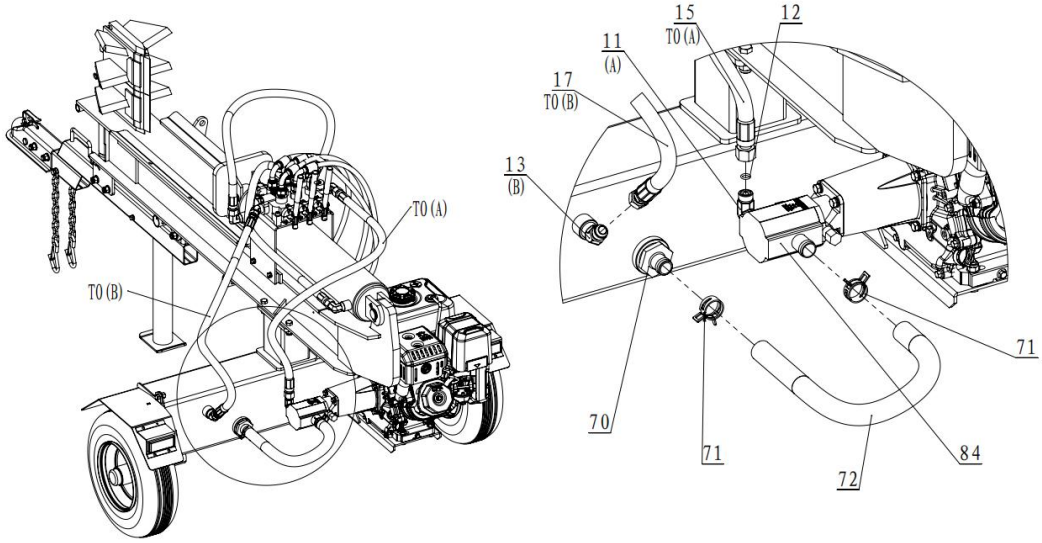
STEP 4: Install the Engine Assembly

1. Place the engine (75#) and gear pump assembly onto the engine mounting plate of the oil tank (56#) as shown. secure it with four sets of bolts M10x45 (73#), washersΦ10 (25#), and lock nuts M10 (74#).



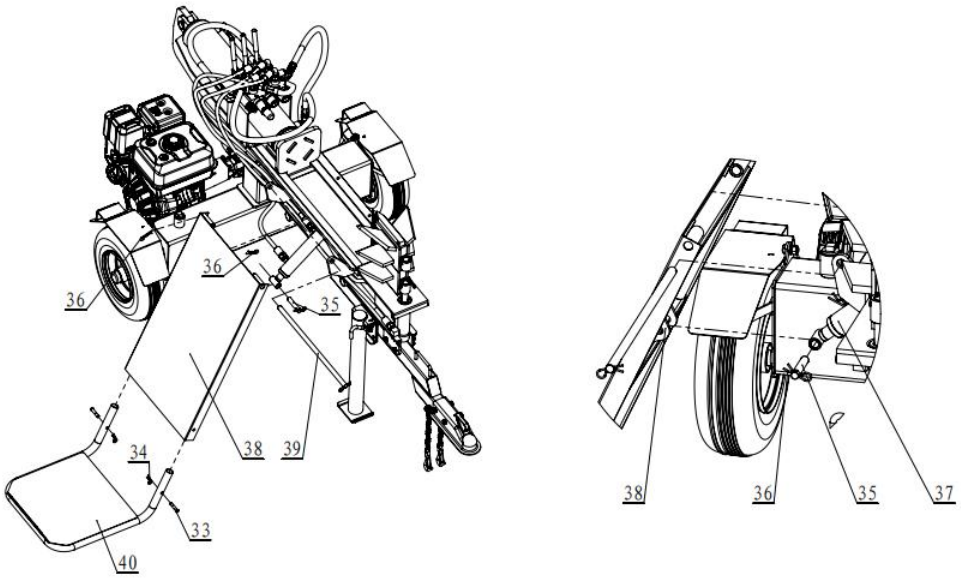
STEP 5: Install the Hose Assembly

1. Attach clamps d30 (71#) to both ends of the oil pipe (72#). Insert one end of the suction hose (72#) fully into the suction port of the gear pump (84#) and the other end into the port of the internal oi l filter (70#) on the oil tank. secure the clamps d30 (71#) into the circular groove on both interfaces.
2. Place the O-ring 10×2.65 (12#) into the groove of the pump outlet fitting (11#). Screw the A-end nut of the inlet valve oil pipe assembly (15#) into the A-end of the pump outlet fitting (11#), and tighten it to a torque of 50–60 N·m.
3. Screw the B-end nut of the 74°return hydraulic hose (17#) into the B-end of the 135°JIC connector (13#), and tighten with a torque of 70-80N·m.



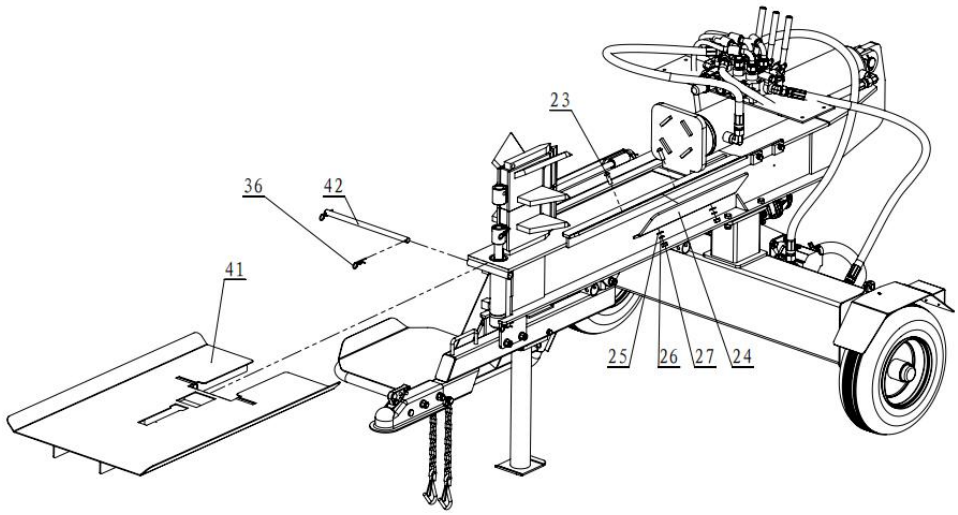
STEP 6: Installation of the Log Lift Table

1. Remove the log lift table axle (39#), small oil cylinder shaft (35#), and R-pin (36#) from the log lift table - main table (38#), and set them aside for later use.
2. Install the log lift table - main table (38#) onto the beam (1#) at the position shown in the diagram. Insert the log lift table axle (39#) and secure it with the R-pin (36#).
3. Lift the log lift table - main table (38#) until it is aligned with the mounting hole of the log lift table - main table cylinder (37#). Insert the small oil cylinder shaft (35#) and secure it with the R-pin (36#).
4. Remove the two sets of pin 10×50 mm (33#) and R-pin (34#) from the log lift table - side table (40#), and set them aside for later use.
5. Install the log lift table - side table (40#) into the log lift table - main table (38#) at the position shown in the diagram. Secure it with the two sets of 10×50 mm pins (33#) and R-pin (34#).



STEP 7: Installation of the Log Catcher。

1. Remove the log catcher axle (42#) and R-pin (36#) from the log catcher (41#), and set them aside for later use.
2. Install the log catcher (41#) into the beam (1#) as shown in the diagram. Secure it with the log catcher axle (42#) and R-pin (36#).
3. Install the small log catcher (24#) into the beam (1#) as shown in the diagram. Secure it using two sets of bolts M10×30 (23#), M10 flat washers (25#), spring washers M10 (26#), and nuts M10 (27#).



STEP 8: Add Engine Oil

1. Make sure the log splitter is on a level surface.
2. Remove oil fill cap/dipstick to add oil.
3. Refer to the separate owner's engine manual for the amount needed of SAE10W-30 engine Oil, replace oil fill cap/dipstick.
4. Check engine oil level daily and add as needed.

NOTE: During the break-in period check the engine oil level often.

⚠ CAUTION

DO NOT attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage to the log splitter as a result of failure to follow these instructions will void your warranty.

STEP 9: Add Hydraulic Oil

1. The log splitter needs to be cold on a flat- level surface before adding the hydraulic oil.
2. Remove the oil cap from the hydraulic reservoir.
3. Add approximately 6 gallons of hydraulic oil, AW32, AW46 & universal hydraulic oil are all acceptable types of fluid. Automatic transmission fluid should be used when operating in temperatures below 32° F (all units are tested and have excess oil in the ram).
4. Check the hydraulic oil level.
5. Start engine and use the control lever to extend and retract ram bracket several times to remove air from the lines

6.With the ram bracket retracted, check hydraulic oil level again and fill if necessary.

7.Do not thread in the dipstick when checking the hydraulic oil level. Check the hydraulic oil level using the oil sight glass. Oil level should visibly fill the sight glass.

8. Check oil level daily and add as needed.

⚠ WARNING

DO NOT remove the hydraulic oil fill cap when the engine is running or hot. Hot oil can escape causing severe burns. Always allow the log splitter to cool completely before removing the hydraulic oil cap.

High fluid pressure and temperatures are created in the hydraulic log splitters. Hydraulic fluid will escape through a pin-size hole opening and can puncture skin and cause severe blood poisoning.

Inspect hydraulic system regularly for possible leaks. **Never check for leaks with your hand while the system is pressurized. Seek medical attention immediately if injured by escaping fluid.**

Make sure all fittings are tight and secure before applying pressure. Relieve system pressure before servicing.

Make sure the hydraulic hoses do not touch any hot surfaces or cutting areas. Hoses need to be positioned where they are clear from the engine and cutting wedge. To avoid serious bodily injury always inspect the hoses before operating the log splitter.

STEP 10: Add Gasoline to the Engine

1. Use only clean, fresh, regular unleaded fuel with a minimum 87octane rating
2. DO NOT mix oil with fuel.
3. Remove the fuel cap, and slowly add fuel to the tank. DO NOT over fill, allow approximately ¼ inch of space for fuel expansion.
4. Screw on the fuel cap and wipe away any spilled fuel.

⚠ DANGER

Log splitter engine exhaust contains carbon monoxide, a colorless, odorless, poison gas. Breathing carbon monoxide will cause nausea, dizziness, fainting or death. If you start to feel dizzy or weak, get to fresh air immediately.

Operate log splitter outdoors only in a well-ventilated area.

DO NOT operate the log splitter inside any building, enclosure or compartment.

DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings.

DANGER CARBON MONOXIDE, using a log splitter indoors **CAN KILL YOU IN MINUTES**.

⚠ CAUTION

Fuel and fuel vapors are highly flammable and extremely explosive.

Fire or explosion can cause severe burns or death.

Unintentional startup can result in entanglement, traumatic amputation or laceration. Only use regular unleaded gasoline with a minimum 87 octane rating.

DO NOT mix oil and gasoline together.

Fill tank approximately ¼" below the top of the tank to allow for fuel expansion. DO NOT fill fuel tank indoors or when the engine is running or hot.

DO NOT light cigarettes or smoke when filling the fuel tank.

Operation Instructions

⚠ WARNING

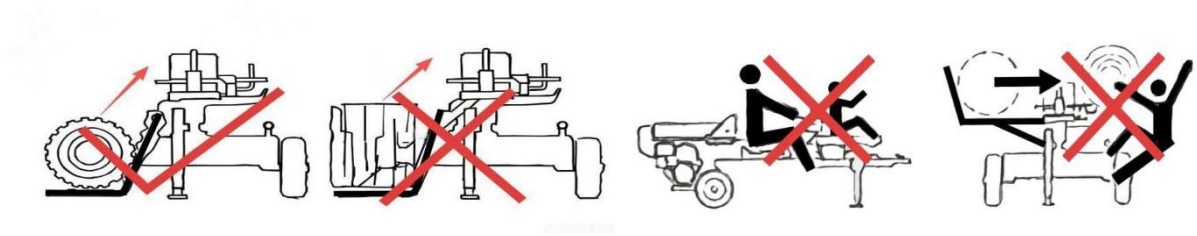
Before operating or using the log splitter, review the instructions below and all safety information. Failure to follow these instructions may result in property damage or injury to the operator or bystanders.

⚠ WARNING

ALWAYS use the log splitter for its intended use.
ONLY use the log splitter to split wood logs, length wise with the grain.
NEVER modify, alter or change the log splitter in anyway, modifications will void the warranty.
NEVER attach a rope, cable or other device to the control lever on the log splitter. ONLY operate the log splitter in daylight.
NEVER leave the log splitter unattended while the engine is running.
DO NOT change the splitting position with the engine running. Contact with the muffler can cause serious burns.
ALWAYS make sure the beam is in the locked position.
DO NOT let the beam drop as it could crush fingers or cause damage to the log splitter.
NEVER operate or let anyone else operate, the log splitter while under the influence of alcohol, drugs, or medication.

USING YOUR LOG SPLITTER

1. Wrong direction of the log may cause roll and fall when rising.
2. Do not sit on the log lift table or log tray table.
3. Do not rise the log lift table too fast, the log will roll over the guard-rail.



4. Check the hydraulic oil level and visually inspect all hose sand attachments for problems.
5. Inspect the engine and make sure the engine oil level is correct.

NOTE: The hydraulic oil needs to be above 10°F(-12℃) before starting the engine. Cold hydraulic oil can damage the hydraulic pump. If outdoor air temperature is below32°F (0℃) allow the log splitter to warm up by extending and returning the wedge several times before splitting wood.

6. Before towing the log splitter, the tires need to be fully inflated.

⚠ TIRE WARNING

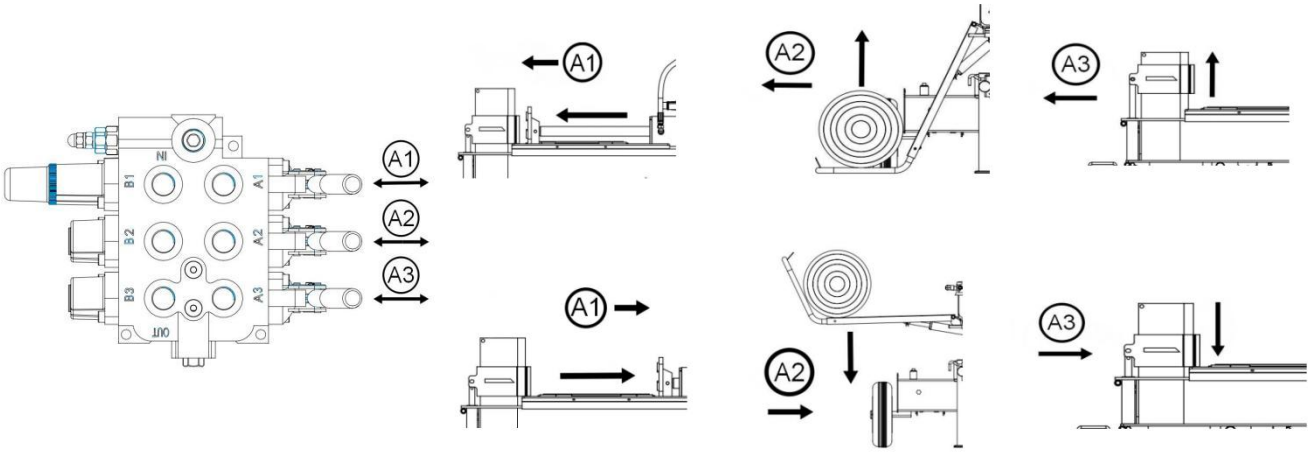
DO NOT over inflate tires. Serious injury can result if tires explode.
DO NOT tow the log splitter if the tires are worn or will not hold air.
DO NOT exceed the maximum 45 MPH towing speed.

7. Refer to the vehicle owner's manual for proper safety and towing instructions.

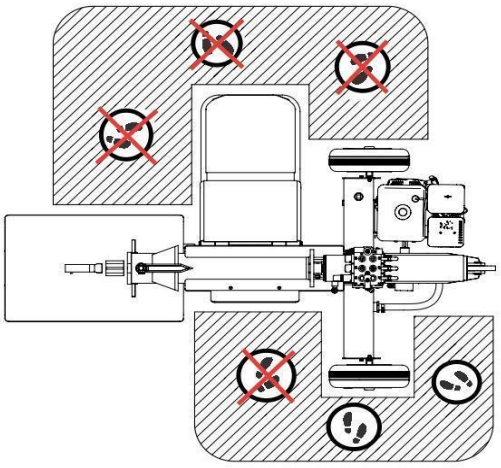
⚠ TOWING WARNING

Serious injury or death can occur if towing safety rules are not followed.
Always use chains, secure and lock the log splitter to the vehicle hitch before moving.
Drive safely. Be aware of the added length of the log splitter.
Never exceed the maximum travel speed of 45 mph.
Never ride or transport cargo on the log splitter.
Turn off the vehicle before leaving the log splitter unattended.
Block the log splitter wheels to prevent unintended movement.

8. Follow the direction indicated to use the control levers.



9. The log splitter must have at least seven feet of clearance from combustible material. It needs to be on a dry and level surface with good footing. Do not work on mud, ice, brush or snow. When using the log splitter, the work zone must be maintained at all times.

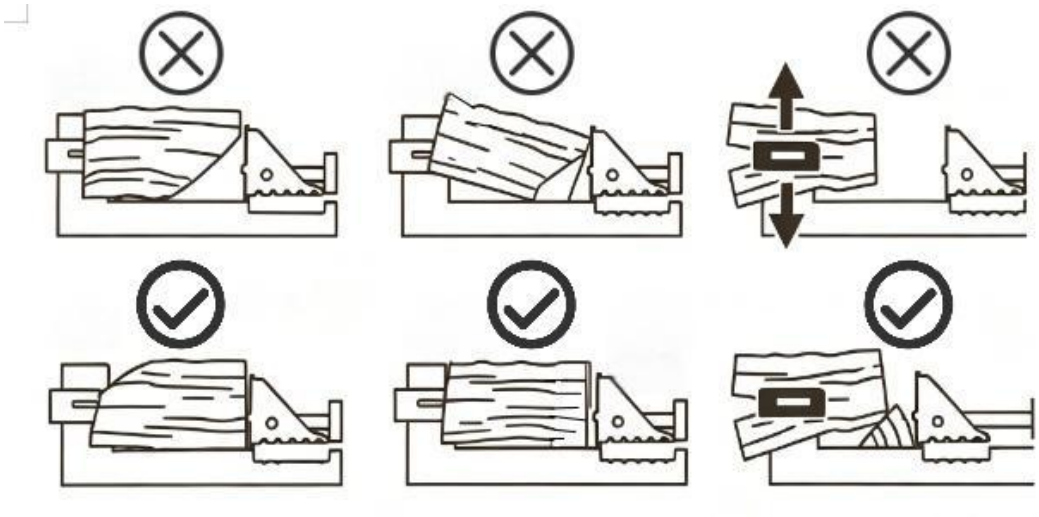


NOTE: serious accidents can happen when other people are allowed inside the work zone. When the log pusher or log lift table is moving, it is forbidden for the operator or anyone else to stand in the restricted area.

10. Always wear safety gear, eye protection, gloves and work boots when operating the log splitter

11. Block tires and ensure support leg is secure to prevent unintended movement of the log splitter during operation.

12.For logs that are not cut square, the longest portion of the log should be rotated down and the squarest end placed toward the log pusher. (Max Log Length-24")
Make sure the log does not tilt when splitting, may damage the blades.



NOTE: Do not adjust blade height when log is jammed. May damage the blade or connect parts

13. Make sure hands are clear from the wedge and crush hazard areas.

CRUSH WARNING

Wedge can cut through skin and break bones. Keep both hands away from wedge and beam slide.

Serious accidents can happen when other people are allowed inside the work zone. Keep everyone else out of the work zone while operating control lever.

DONOT 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.

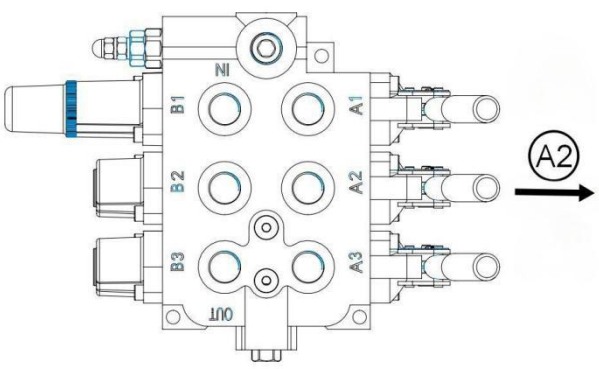
14. Push control lever FORWARD by one hand to split the log.

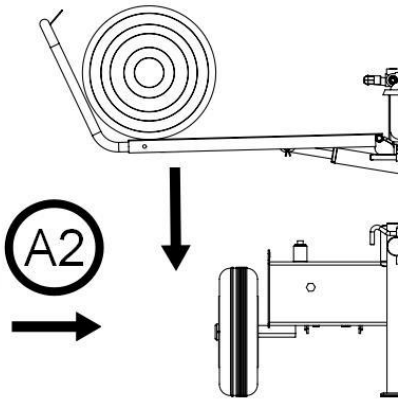
15. Push control lever BACKWARD by one hand to return ram bracket to its original position

16. Always keep work zone clean and free of split wood and debris.

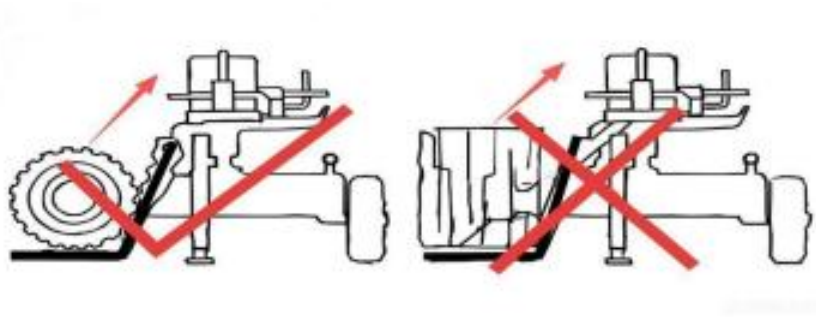
Log Lift Table Attachment Operation

1.When the log lift table attachment aligns with the beam, Push the log lift table control lever in the direction indicated. This action will gradually lower the log lift table. Once it reaches the desired height, release the control lever.

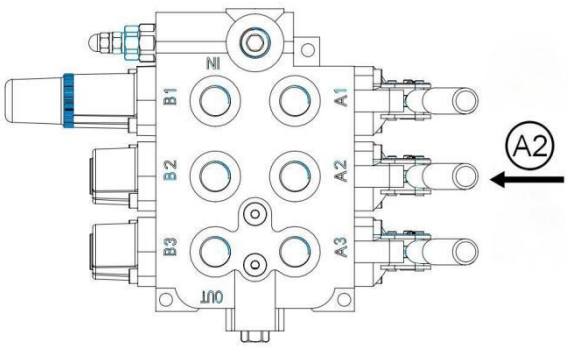


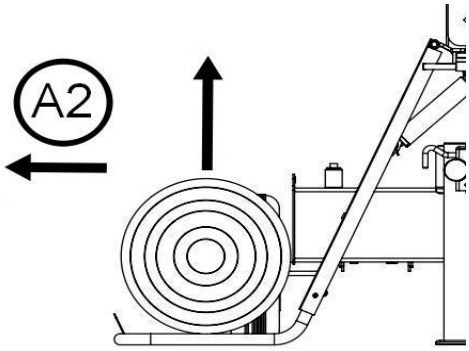


2.Ensure the log lift table has stopped moving, then proceed to load the log onto the table.
NOTE: Wrong direction of the log may cause roll and fall when rising.



3. Make sure the log is placed on the table securely, Push the log lift table control lever in the direction indicated, the log lift table will start to rise.





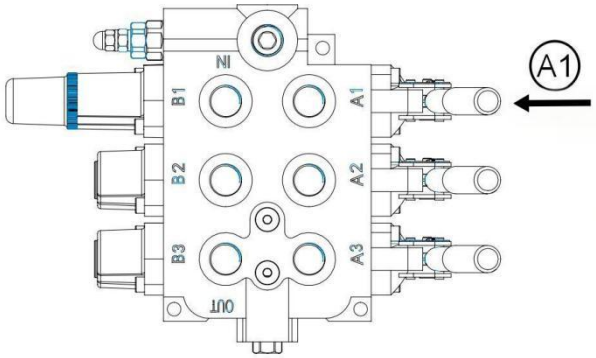
NOTE: Keep away from rotating parts and any moving parts. Do not remove the safe guard-rail. Do not make logs too large or heavy, risk of damage.

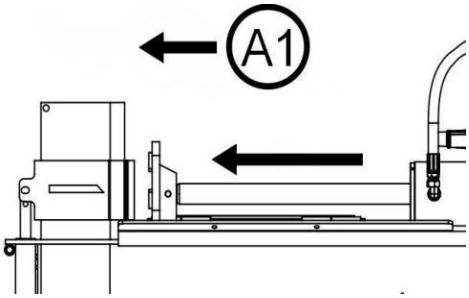
4. Move the log from log lift table to the beam and against the wedge.

NOTE: Make sure the platform is clear and keep hands away from the splitting stroke!

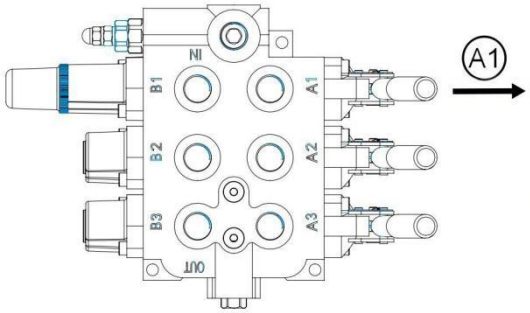
Log Split Control Lever

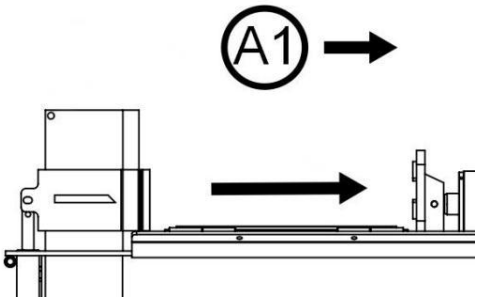
1.Move and hold the log split control lever towards to wedge to extend the log pusher. The log will split and fall onto the log tray table.





2.Move the log split control lever away fromthe wedge to retract the log pusher.

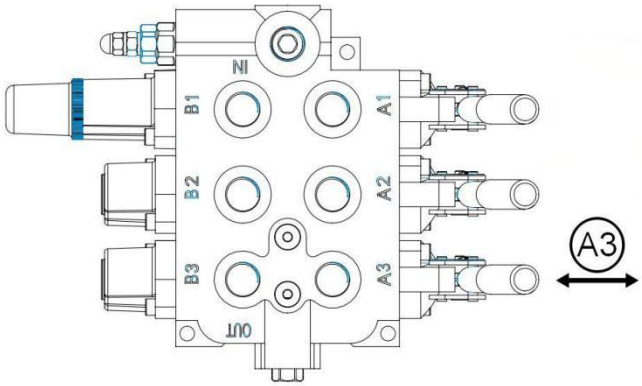


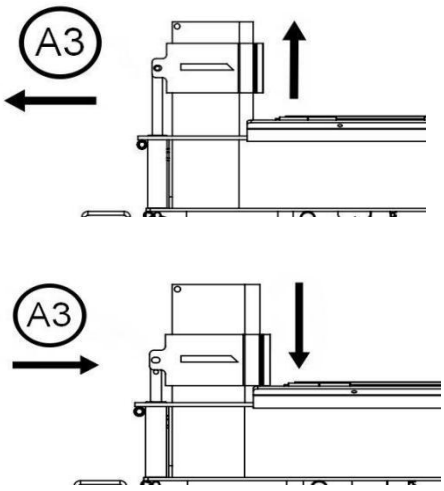


4-way & 6-way Wedge Height Adjustment Control Lever

1. This product includes both the 4-way wedge and the 6-way wedge. Select and install the one that best suits your needs.

2. Move the 4-way/6-way wedge lifting control lever toward the wedge to raise the 4-way/6-way wedge. Move the 4-way/6-way wedge lifting control lever away from the wedge to lower the 4-way/6-way wedge.





NOTE: The wedge can only split straight grained Log! Logs with knotty & twisted grained will damage wedges and machine!

NOTE: The heights of the 4-Way & 6-Waywedge can only be adjusted beforesplitting, otherwise the wedge will be damaged.

TRANSPORTING

Moving By Hands

⚠ WARNING

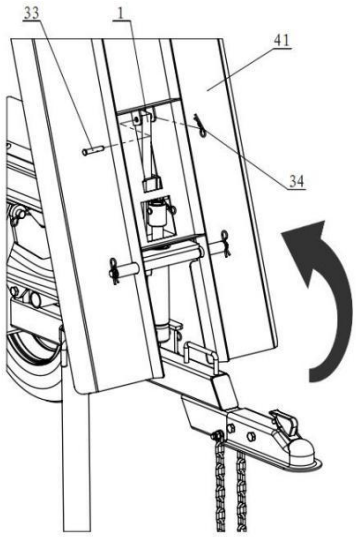
The log splitter is heavy. It cancrush and cause serious injury if it rolls out of control or tips over.

Make sure the log splitter engine isoff. Never move the log splitter with its engine running.

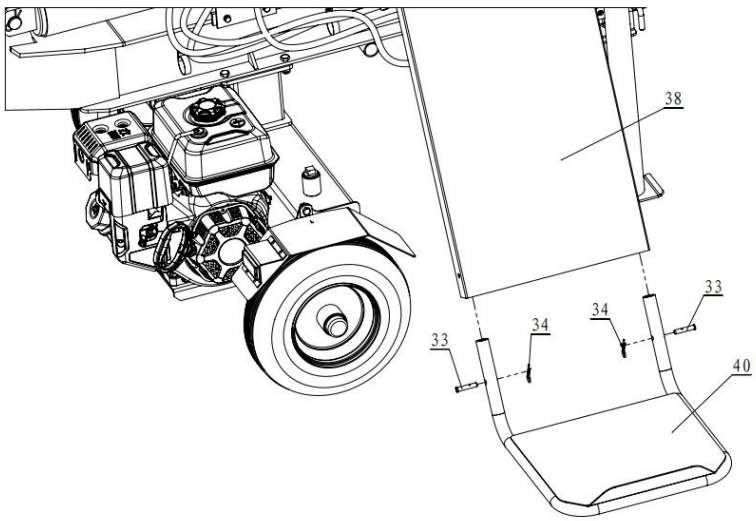
Follow the instructions below for safely moving the log splitter.

1. Turn the fuel shut-off valve to the OFF position. This action prevents carburetor flooding and minimizes the risk of fuel leakage. Please consult the engine manual for the location of the fuel valve.
2. Lower the 4-Way Wedge/6-Way Wedge to the lowest position.

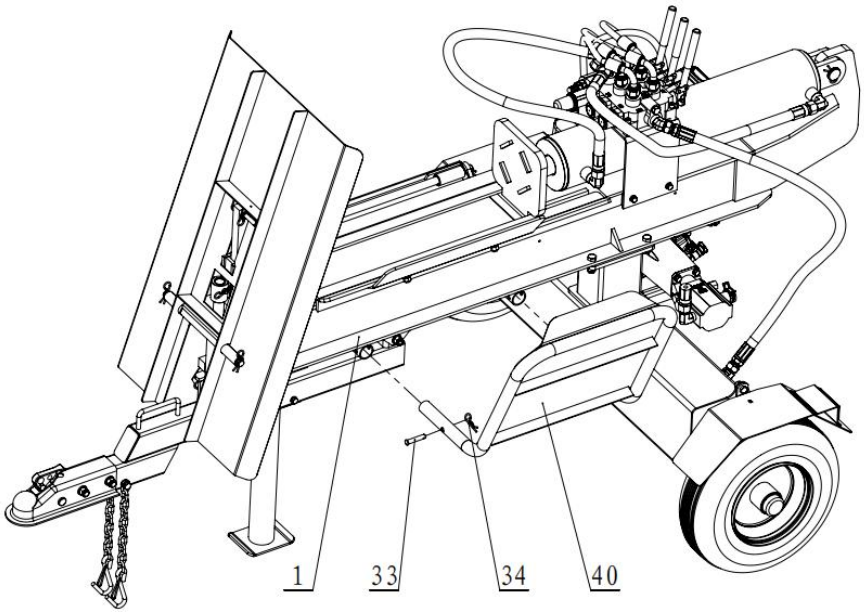
3. Flip the log catcher (41#) upward and remove the pin 10 × 50 (33#) and R-pin (34#). Then, install the log catcher (41#) onto the wedge of beam (1#) at the position shown in the illustration. Insert the pin 10 × 50 (33#) and R-pin (34#) to secure it in place.



4. Remove the two sets of pins 10 × 50 (33#) and R-pin (34#), then remove the log lift table - side table (40#) from the log lift table - main table (38#). Set them aside for later use.



5. Install the log lift table - side table (40#) into the wedge of beam (1#) as shown in the illustration, and secure it with two sets of pins 10 × 50 (33#) and R-pins (34#).



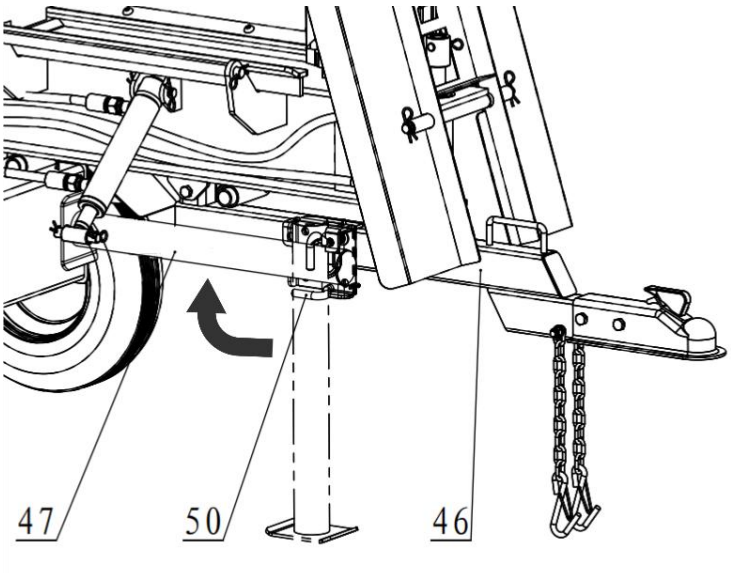
6.Move the log splitter by hand to desired work site.

⚠ WARNING

Do not move the log splitter up or down hills by hand.
Never allow anyone to sit or ride on the log splitter.
Never transport cargo or wood on the log splitter.

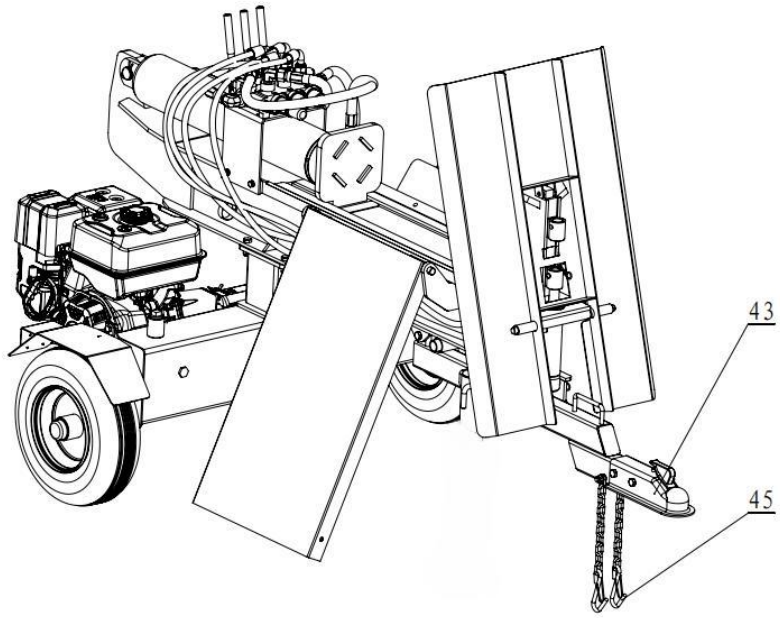
Towing By Vehicle

1. Turn the fuel shut-off valve off. This prevents fuel from flooding the engine.
2. Check the tires to ensure they are fully inflated to for proper functional.
3. Pull the lock pin and pivot the support legs to a parallel position with the tow bar.



4.Inspect the safety chains. Two safety chains are mandatory for towing. Cross the safety chains under the coupler, ensuring there is only enough slack to accommodate vehicle turns.

5. Install the 2-in. Coupler (43#) onto the vehicle's trailer hitch, then attach the two Safety Chains with Hooks (45#) to the vehicle.



⚠ WARNING

Be aware of the added length of the splitter.
Never tow this log splitter over 45mph. Faster speeds may result in loss of control.
Drive slowly and take extra caution when traveling over rough terrain.
If towing on a public road, make sure to comply with all local, state, and federal towing requirements. It is the sole responsibility of the purchaser to obtain licensing, trailer lights, safety chains, or signage as needed to comply.
Turn off the towing vehicle before leaving the splitter unattended.

Maintenance and storage

CAUTION

Improper maintenance and storage of the log splitter may void your warranty.

MAINTENANCE

- Before performing maintenance, the log splitter must be placed in maintenance mode. Turn off the engine and move the control lever forward and backwards to relieve the hydraulic pressure.
- After performing any maintenance, make sure all guards, shields and safety features are put back in place before operating the log splitter.
- Before operating make sure the tires have the RECOMMENDED TIRE PRESSURE.
- Regularly grease axle and wheel bearing area or when needed.
- After the wheel bearings have been greased make sure the axle nuts and pins are in place and secure.
- Periodically check all fasteners and hoses for tightness and leaks.
- Annually clean and lightly lubricate all moving parts or when needed.
- Use a glossy enamel spray paint to touch up scratched or worn painted metal surfaces.
- Never exceed load capacity rating of 37 tons it will damage the log splitter.

What	When	HOW
Hoses	Each use	Inspect hoses for exposed wire mess hand leaks. Replace all worn or damaged hoses before starting the engine.
Hydraulic Fittings	Each use	Inspect fittings for cracks and leaks. Replace all damaged fittings before starting the engine.
Nuts and Bolts	Each use	Check for loose bolts, tighten before operating.
Beam	Each use	Apply grease to beam surface.
Moving parts	Each use	Clear debris from log splitter.

Refer to the Engine Owner's Manual for engine maintenance.

IMPORTANT:

If a part needs replacement, only use parts that meet the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard or poor operations.

STORAGE

- Before storing make sure the log splitter is clean and dry for years of trouble-free service.
- Lightly lubricate all log splitter surfaces and moving parts to prevent rust.
- Store indoors or protected area during severe weather and winter months.

Troubleshooting

Problem	Cause	Solution
Engine will not start.	No fuel.	Add fuel.
	Faulty spark plug.	Replace spark plug.
	Unit loaded during start up.	Remove load from unit.
Engine will not start;	Low oil level.	Fill crankcase to the proper level.
		Place log splitter on a fl at, level surface.
Engine starts but runs roughly.	Choke in the wrong position.	Adjust choke.
	Spark plug wire loose.	Attach wire to spark plug.
Engine shuts down during operation.	Out of fuel.	Fill fuel tank.
	Low oil level.	Fill the crankcase to the proper level. Place the log splitter on a fl at, level surface.
Engine cannot supply enough power or overheating.	Insufficient ventilation.	Check for air restriction. Move to a well-ventilated area.
Ram racket movement is slow or erratic.	Air in the hydraulic oil system.	Purge air by extending and retracting the Ram racket several times until motion is smooth.
	Debris lodged in beam guides.	Clear debris from the beam.
	Low hydraulic oil.	Check the oil level and add as needed.
Oil leak from cylinder.	Faulty cylinder rod seal.	Contact Customer Service.
	Scored or bent cylinder rod.	Contact Customer Service.
	Loose hydraulic fitting.	Tighten hydraulic fitting.
	Faulty combination washer seal on cylinder hydraulic fitting.	Contact Customer Service.
Wedge will not extend or retract.	Faulty control valve.	Contact Customer Service.
	Faulty hydraulic pump.	Contact Customer Service.
	Low hydraulic oil.	Check the oil level and add as needed.
Excessive bouncing while towing.	Under-inflated tires.	Inflate tires to the proper pressure. Refer to tire sidewall.

Specifications

Ram Force..... 35 Ton

Cycle Time..... 16Sec

(Note: Cycle time may vary given mechanical and environmental factors; the published cycle time is for ideal conditions)

Wedge size..... 11.8"Harden steel

Gear pump.....2-stage

Max. Flow.....14GPM

Hydraulic oi..... AW32, AW46 &Universal Hydraulic oi

Amount of Hydraulic Fluid.....6 Gallon

Max. Log Length.....24"

Hydraulic cylinder.....4.7 x23"

wheel size.....4.8-8 wheel with 16” outside diameter D.O.T tires

Hitch Type.....2"Ball Coupler

Max. Towing speed.....45 MPH

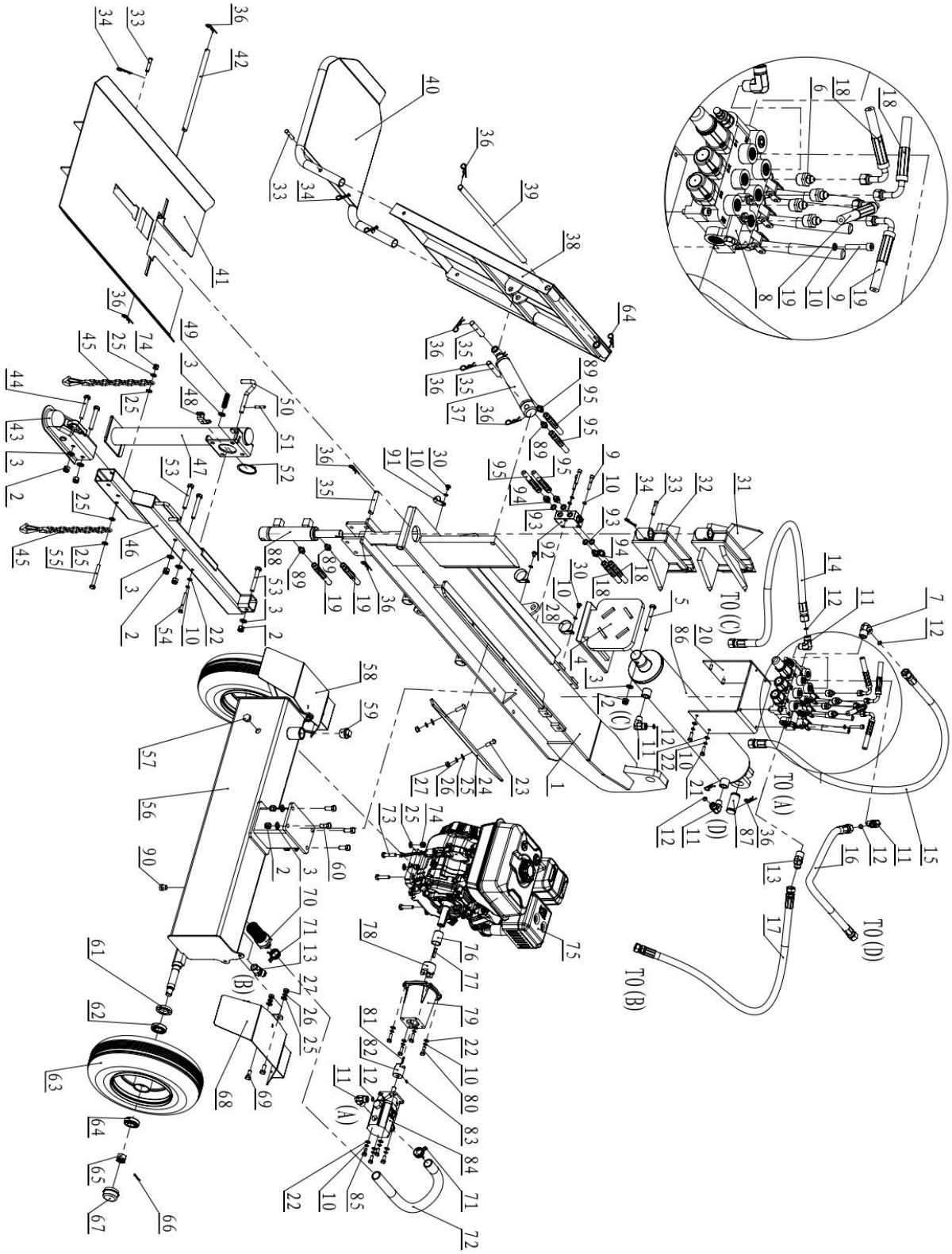
Wedge Type.....2-way,4-way,6-way

Wedge Lifting Stroke.....3.5inch

Manual start Engine.....301cc

NOTE: For Engine Details Refer to the Engine owner's Manual.

Parts Drawing & Parts List



No.	Part number	Description	Qty	No.	Part number	Description	Qty
1	PMJ32-01-00	Beam	1	50	PMJ25Y-16	Lock Pin	1
2	GB/T 889.1-2000	Lock Nut M12	10	51	GB/T 879.2-2000	Elastic Cylindrical Pin 6x40	1
3	GB/T 95-1985	Washer Ø12	11	52	GB 894.1-86	Circlip Ø63	1
4	PMJ32-02-00	Ram Bracket	1	53	GB/T 5782-2000	Bolt M12×85	3
5	GB/T 5782-2000	Bolt M12×90（12.9）	1	54	GB/T 5785-2000	Bolt M8×1×70	1
6	PMJ32-12-00	Control valve connector	4	55	GB/T 5782-2000	Bolt M10×85	1
7	PMJ20J-16	Control Valve "IN" Connector	1	56	PMJ32-04-00	Oil Tank	1
8	PMJ32-02	Control Valve	1	57	GB 1160.2-89	Oil Scale	1
9	GB/T 70.1-2000	Bolt M8×45	6	58	PMJ22G-34-00	Left Fender	1
10	GB/T 93-1987	Lock Washer Ø8	22	59	PMJ22G-18	Screw NPT 1 in.	1
11	PMJ25M-16	Outlet Connector of Pump	5	60	GB/T 5783-2000	Bolt M12×30	4
12	GB/T 3452.1-92	"O" Ring Ø10x2.65	6	61	PMJ22J-05-01	Cased Seal	1
13	PMJ25Y-24	JIC Connector, 135 Degree	2	62	L44643 LYC DS	Tapered Bearing	2
14	PMJ32-11	High pressure Hose	1	63	PMJ22D-05-03	Wheel	2
15	PMJ32-09	Control Valve Oil Pipe	1	65	GB/T 9459-1988	Slotted Nut M20x1.5	2
16	PMJ32-10	Long Oil Cylinder Oil Pipe	1	66	GB/T 91-2000	Cotter Pin Ø4x32	2
17	PMJ32-12	Oil Return Hose	1	67	PMJ22J-05-02	Axle Cap	1
18	PMJ32-07	Log Lift Table Oil Pipe	2	68	PMJ22G-35-00	Right Fender	1
19	PMJ32-08	Wedge Oil Pipe	2	69	GB/T 5783-2000	Bolt M10×25	4
20	PMJ32-01	Control Valve Bracket	1	70	PMJ22Q-20A	Internal Oil Filter	1
21	GB/T 5781-2000	Bolt M8×25	4	71	PMJ25Y-38	Clamp d30	2
22	GB/T 95-2000	Washer Ø8	13	72	PMJ25M-17	Suction Hose	1
23	GB/T 70.2-2000	Bolt M10×30	2	73	GB/T 5780-2000	Bolt M10×45	4
24	PMJ32-03	Short Log Catcher	1	74	GB/T 889.1-2000	Lock Nut M10	5
25	GB/T 95-2000	Washer Ø10	14	75	R301	Engine	1
26	GB/T 93-1987	Lock Washer Ø10	6	76	PMJ30-29	Engine Bushing	1
27	GB/T 6170-2000	Nut M10	6	77	PMJ30-32	Flat Key	1
28	PMJ32-13	Clamp Ø42	2	78	PMJ30-28	Engine Connector	1
30	GB/T 818-2000	Phillips head screw M8×10	3	79	PMJ30-23	Gear Pump Stand	1
31	PMJ32-08-00	6-Way Wedge	1	80	ASME B18.2.1 1996	Bolt 5/16 in.-24x1 in.	4
32	PMJ32-07-00	4-Way Wedge	1	81	GB/T 1096-1979	Flat Key 3.18x25.4	1
33	GB/T 882-88	Pin 10×50	4	82	PMJ22G-26	Gear Pump Connector	1
34	PMJ22G-30	R Pin	4	83	GB/T 77-2000	Screw M6x10	1
35	PMJ32-04	Small oil cylinder shaft	3	84	PMJ22J-14	Gear Pump	1
36	GJY12-3	R Pin	12	85	GB/T 5783-2000	Bolt M8×20	4
37	PMJ32-05-00	Log Lift Table Cylinder	1	86	PMJ30G-08-00	Hydraulic Cylinder	1
38	PMJ32-10-00	Log Lift Table-Main Table	1	87	PMJ37N-13	Wedge Pin	1
39	PMJ32-06	Log Lift Table Axle	1	88	PMJ32-06-00	Wedge Lift Cylinder	1
40	PMJ32-11-00	Log Lift Table- Side Table	2	89	TYJ3-19	Hydraulic Hose Fitting	4
41	PMJ32-09-00	Log Catcher	1	90	PMJ22G-19	Oil Plug	1
42	PMJ32-05	Log Catcher Axle	1	91	****	Clamp Ø16	1
43	PMJ22G-40	2-in. Coupler	1	92	PMJ32-15	Drop Check valve	1
44	GB/T 5782-2000	Bolt M12×80	2	93	JB 982-77	Sealing Washer 13	4
45	PMJ25M-18-00	Safety Chains	2	94	JDP1200-21	Pump Output Connector	4
46	PMJ32-03-00	Tow Bar	1	95	PMJ32-14	Log Lift Table Short Oil Pipe	2
47	PMJ25S-07-00	Support Leg	1				
48	PMJ25E-21	Front Support Leg Baffle	1				