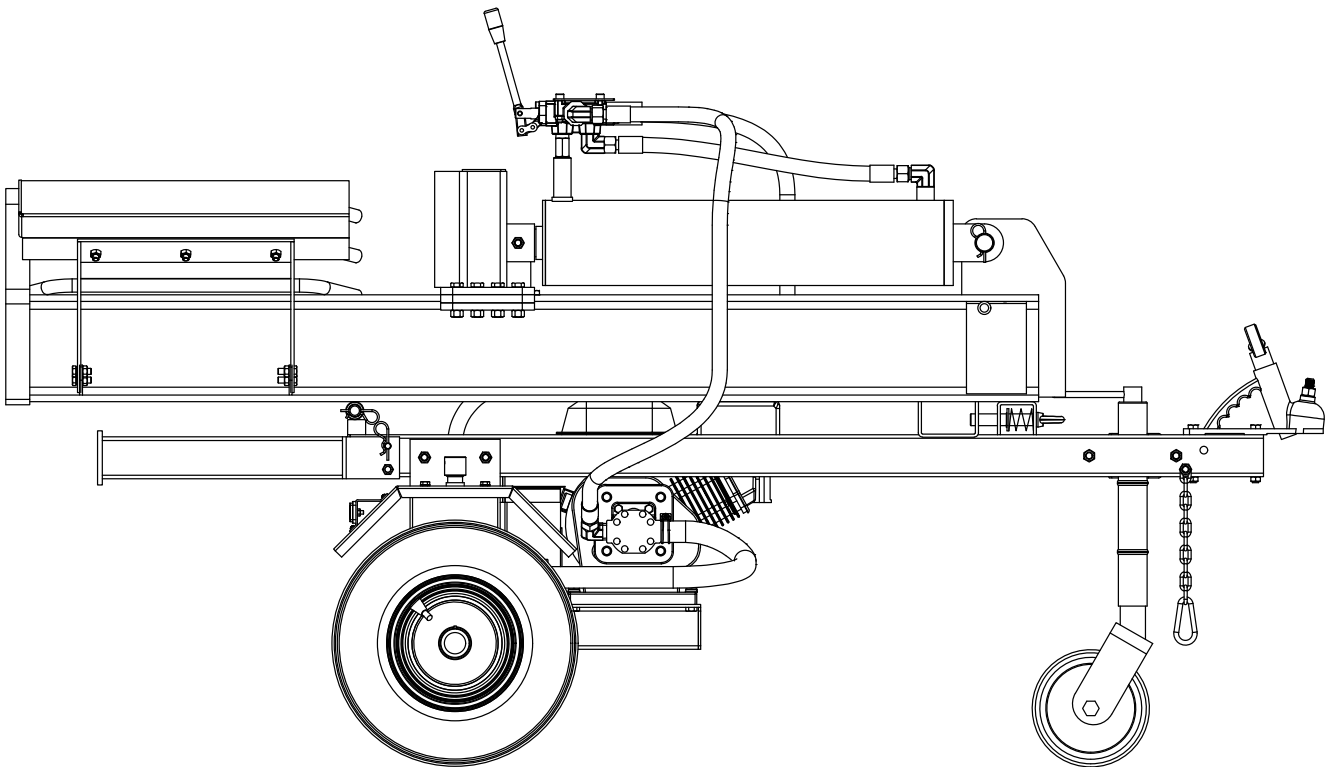


# OWNER'S MANUAL

## Assembly & Operating Instructions



# LOG SPLITTER 40/65T



Thank you for choosing our equipment. It was carefully engineered to provide excellent performance when properly operated and maintained.

Please read this entire manual before operating the equipment. It instructs you on how to set up, operate, and maintain your equipment safely and easily. Ensure that you and any other persons operating the equipment carefully follow the recommended safety practices at all times, as failure to do so could result in personal injury or property damage.

All information in this manual is relevant to the most recent product information available at the time of printing. Review this manual frequently to familiarise yourself with the equipment, its features, and operation. Please note that this Owner's Manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models. We reserve the right to change product specifications, designs, and equipment without notice and without incurring obligation.

All the power testing information used to establish the power rating of the engine equipped on this equipment can be found in the engine manufacturer's manual or website. If you encounter any problems or have questions about the equipment, please contact our Customer Support Department.

Throughout this manual, all references to the right and left side of the equipment are observed from the operating position. The engine manufacturer is responsible for all engine-related issues concerning performance, power-rating, specifications, warranty, and service. Refer to the engine manufacturer's Owner's Manual, packed separately with your equipment, for more information.

## **Customer Support**

Before initiating a product return, kindly reach out to our dedicated Customer Support Department at Bigger Boyz Toyz. We are here to assist you.

Phone: 02 4257 4787

Email: [bbt@bbta.com.au](mailto:bbt@bbta.com.au)

Warehouse: Unit 2/3 Delta Place, Albion Park Rail NSW 2527

If you have difficulty assembling the product or have any questions about the controls, operations, or maintenance of the equipment, please don't hesitate to get in touch with our Customer Support Department.

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# SAFETY & ALERT SYMBOLS

## FOR YOUR SAFETY AND THE SAFETY OF OTHERS!



Safety precautions should be followed all the time when operating this equipment. Failure to read and understand the Safety Messages and Operating Instructions could result in injury to yourself and others.



This Operating Instructions has been developed to provide complete instructions for the safe and efficient operation of this equipment. Refer to the engine manufactures instructions for data relative to its safe operation.



**WARNING:** Read and thoroughly understand all instructions in this equipment and on the safety decals before assembling or operating this equipment. Failure to do so may cause serious injury or death. Do not allow anyone to operate this equipment who has not read this manual. As with all power equipment, this equipment can be dangerous if assembled or used improperly. Do not operate this equipment if you have any questions concerning its safe operation. Contact our Customer Support Department for assistance in addressing any queries or concerns.

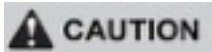
This SAFETY ALERT SYMBOL identifies important safety messages in this manual. Failure to follow this important safety information may result in serious injury or death.



**DANGER** indicates a hazardous situation which, if not avoided, will result in serious injury or death.



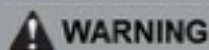
**WARNING** indicates a hazardous situation which, if not avoided, could result in serious injury or death.



**CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

## ADDITIONAL INFORMATION AND POTENTIAL CHANGES

We reserve the right to discontinue, change, and improve our products at any time without notice or obligation to the purchaser. The descriptions and sections contained in this manual were in effect at the time of printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your equipment.

















Your Responsibility—Restrict the use of this equipment to persons who have read, understood, and will follow the warnings and instructions in this manual and on the machine

**SAVE THESE INSTRUCTIONS!**

# HAZARDS SYMBOLS

Potential hazards associated with the operation of this equipment will be referenced with Hazard Symbols which appear throughout this manual.

	<b>READ THE OWNER'S MANUAL(S)</b> : Read, understand and follow all instructions in the manual(s) before attempting to assemble and operate.
	<b>FACE PROTECTION</b> : Always wear safety goggles or safety glasses with side shields or a face shield when operating this equipment as well as ear protection.
	<b>WEAR GLOVES</b> : Always wear non-slip, heavy-duty protective gloves when operating this equipment.
	<b>WEAR SAFETY FOOTWEAR</b> : Always wear non-slip steel-toed safety footwear when operating this equipment.
	<b>BEWARE OF ROTATING BLADES</b> : This equipment has a rotating cutting blade capable of amputating hands and feet and throwing objects. Keep hands and feet out of openings while machine is running. Failure to observe these safety instructions could result in serious injury or death.
	<b>BEWARE OF FLYING OBJECTS</b> : Beware of thrown objects, which can ricochet causing serious injury to the eyes. Always wear eye & ear protection when operating.
	Never wear loose clothes or long jewellery and keep your long hair secured when operating this equipment. Never operate this equipment in bare feet or sandals.
	<b>CARBON MONOXIDE AND GAS</b> : Exhaust contains poisonous carbon monoxide, a colourless and odourless gas. Breathing exhaust fumes can cause loss of consciousness and may lead to death.
	<b>RESPIRATORY HAZARDS</b> : ALWAYS wear approved respiratory protection when required.
	<b>PETROL OIL</b> : Petrol is extremely flammable and the vapours are explosive. Serious personal injury can occur when petrol is spilled on you or your clothing, which can ignite. In the event of a petrol spill, wash your skin and change clothes immediately.
	<b>BURN HAZARDS</b> : Engine components can produce intense heat. To avoid burns, DO NOT touch these areas while the engine is running or right after operations. Never operate the engine with removed heat shields or guards.
	<b>BYSTANDERS</b> : Keep bystanders, helpers, pets, and children at least 10m from the equipment while it is in operation. Stop equipment if anyone enters the area.
	<b>SINGLE OPERATOR</b> : Only one person should operate the equipment at a time. The adult who loads and stabilises the log must be the person who operates control handle.
	DO NOT use in the rain.

# GENERAL SAFETY

- » **Age Requirement:** Do not allow operation by persons under 18 years of age.
- » **Protective Clothing:** Always wear protective clothing, including shatterproof glasses and steel-toed boots.
- » **Health Check:** Do not operate if you are unwell, fatigued, or under the influence of drugs or alcohol.
- » **Proper Protection:** Use respiratory masks, hearing, and eye protection.
- » **Decal Visibility:** Replace any unreadable safety decals or nameplates.
- » **Attachments:** Use only recommended accessories to prevent damage or injury.
- » **High Temperatures:** Let the engine cool before refuelling or servicing. Never touch hot components like the exhaust manifold.
- » **Ventilation:** Refuel in well-ventilated areas, away from open flames.
- » **Explosive Atmospheres:** Avoid operating near combustible materials.
- » **Unattended Operation:** Stop the engine if leaving the equipment unattended.
- » **Maintenance:** Keep the equipment in safe operating condition. Service air filters and check all bolts before use.

## OPERATION SAFETY

- » **Safety Features:** Ensure all guards and safety devices are attached and functional.
- » **Environment:** Operate in open, well-lit areas on flat, solid ground. Block wheels to prevent movement.
- » **Handling Logs:**
  - » Place hands on the sides of the log, never on the ends. Do not use feet or objects to stabilise logs.
  - » For logs which are not cut square, place the least square end toward the beam and wedge, and the square end toward the end plate.
  - » NEVER try to split two logs on top of each other.

» NEVER try to cross split a log.

- » **Splitting Position:** Lock beam horizontally or vertically. For vertical splitting, ensure logs are stabilised against the beam.
- » **Safety Precautions:** Keep hands away from moving parts and never attempt to operate the controls with your feet.

## TRANSPORTING SAFETY

- » **Cargo:** Do not carry passengers or cargo on the log splitter.
- » **Towing:** Use a Class I, 2 inch (50mm) towing ball and secure the splitter properly with safety chains. Do not exceed 60 km/h when towing.
- » **Preparation:** Turn the fuel shut off valve to "OFF" before towing.

## MAINTENANCE SAFETY

- » **Pre-service Checks:** Disconnect the spark plug and relieve hydraulic pressure before servicing.
- » **Hydraulic System:** Check for leaks with cardboard and replace damaged components. Never check leaks with hands.
- » **Oil Levels:** Always check hydraulic and engine oil levels before operation.
- » **Professional Assistance:** Seek immediate medical help if injured by hydraulic fluid and only allow qualified technicians to adjust hydraulic settings.

## ADDITIONAL HAZARDS

- » **Environmental Check:** Ensure no hazardous utilities are in the operating area.
- » **Noise:** Use hearing protection to prevent potential hearing loss from noise exposure.
- » **Vibration:** Be cautious of repetitive motions and vibrations which could affect hands and arms.

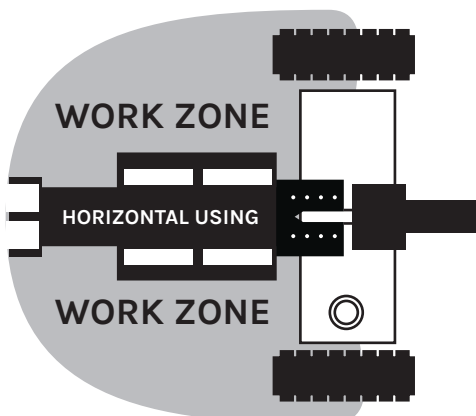
**Remember:** Always keep the work area clean and free of obstructions. Never operate the equipment if it's in poor condition or without proper safety training and preparation.

## STORAGE SAFETY

- » **Cleanliness:** Always clean debris and chaff from the engine and muffler areas to prevent fires.
- » **Cooling Period:** Allow the equipment to cool for at least ten (10) minutes before storing.
- » **Fuel Management:** Always drain the fuel tank prior to storage to eliminate potential fire hazards.
- » **Proper Location:** Store equipment in a clean, dry location out of the reach of children.
- » **Maintenance Checks:** Ensure all safety features are intact and the equipment is in good repair before storing.

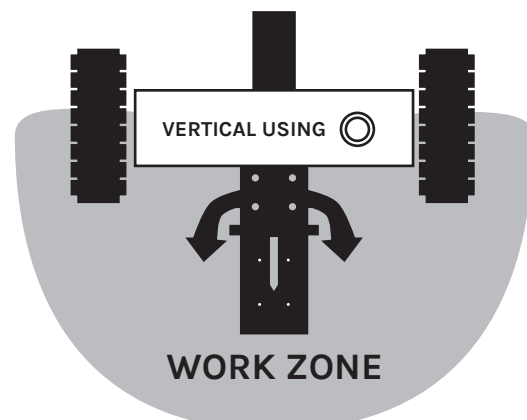
## OPERATOR ZONE AND SAFETY

- » **Designated Operator Zone:** ONLY operate the log splitter from the designated operator zone, as illustrated in the equipment diagrams. This zone provides the safest and most efficient access to the control valve and the beam.
- » **Exclusive Access:** Ensure that no other individuals are within the work zone while operating the log splitter to prevent serious accidents.



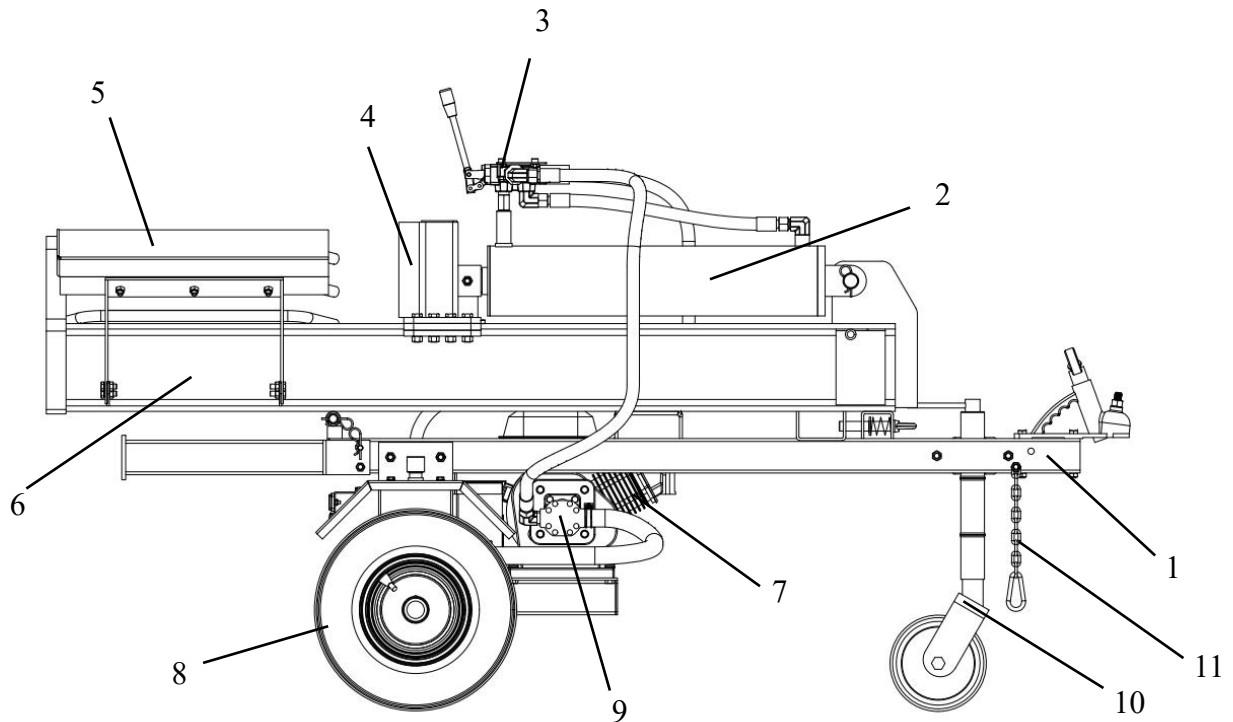
## LOG LOADING AND SPLITTING

1. **Log Placement:** Load a log onto the beam, positioning it against the end plate.
2. **Clearance:** Always ensure hands and other body parts are clear of crush hazard zones before and during operation.
3. **Splitting Operation:**
  - » To split the log, firmly push the control valve handle FORWARD using both hands.
  - » To retract the wedge to its starting position, pull the control valve handle BACKWARD using both hands.
4. **Post-Splitting:** After the log is split, promptly clear the split wood from the work zone to maintain a clean and safe area.



# GENERAL INFORMATION

## APPLICATION



1. **Tow Bar:** Connects the log splitter to your vehicle, compatible only with 50mm tow balls.
2. **Hydraulic Cylinder:** This component is essential for driving the splitting action, rated up to 3800 psi.
3. **Control Valve Handle:** Used to control the movement of the wedge slide, allowing it to move forward and backward.
4. **Wedge:** Designed with a taper to facilitate easier splitting of logs.
5. **Log Cradle:** Helps to keep the log securely on the beam, reducing the need for manual support from the operator.
6. **Beam:** Constructed from a 150mm wide flange beam (I-Beam), providing robust support for splitting operations.
7. **Engine:** An air-cooled engine that powers the hydraulic pump, essential for the splitter's operation.
8. **Tires:** Designed for a maximum rated speed of 30 km/h and are not suitable for towing on public roads.
9. **Gear Pump:** Circulates hydraulic oil through the system, powering the hydraulic mechanisms.
10. **Jockey Wheel:** Supports the log splitter during operation and facilitates easier movement when towing.
11. **Safety Chains:** A critical safety feature that secures the log splitter to the towing vehicle to prevent detachment during transport.



# ASSEMBLY

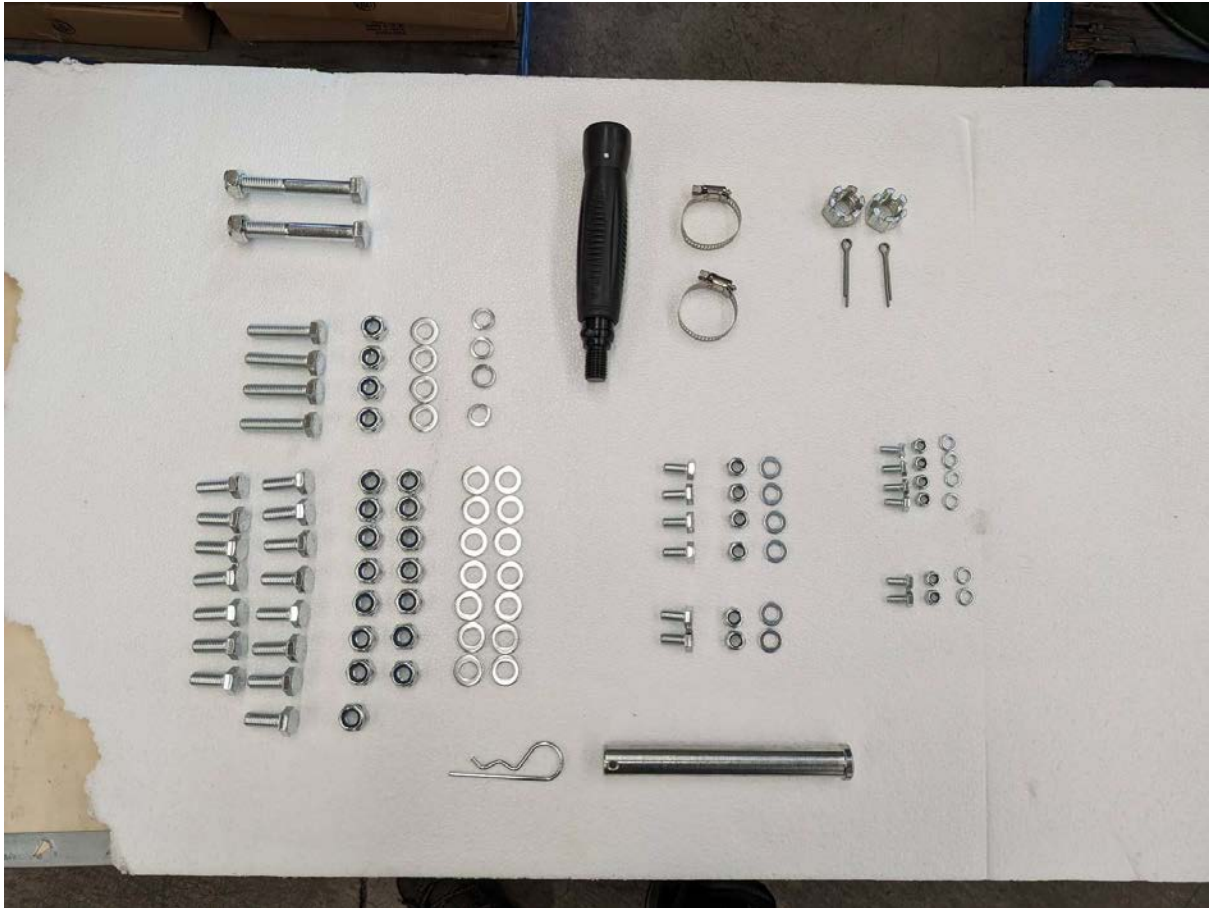
## Step 1: Unboxing

When you first get your log splitter it will be boxed and wrapped in clear wrap, to make sure everything was received the best thing to do is unbox, unwrap, and lay out all the parts for the log splitter.



## Step 2: Lay out all bolts, washer, and nuts

When you receive your log splitter all the bolts, washers and nuts will be in one package. To make sure you have received all your bolts, washers and nuts it is best to lay them out, this also makes it easier to find them when assembling.





## Step 3: Oil tank and wheels

When assembling your log splitter, the first part you start with is the oil tank. From the oil tank you can attach the wheels, which are attached with a 24mm castle nut and a split pin. Do up the castle nut up firmly and loosen to line up the hole for your split pin and pull through and bend over.



## Step 4: Attach tow bar to oil tank

After the wheels have been attached to the oil tank it will try to wheel away on you, to stop this you will need to attach the tow bar. This tow bar is held on with the two longer bolts. Please note You will need to make sure that the square provision for the engine mount is facing forward (towards the tow ball).





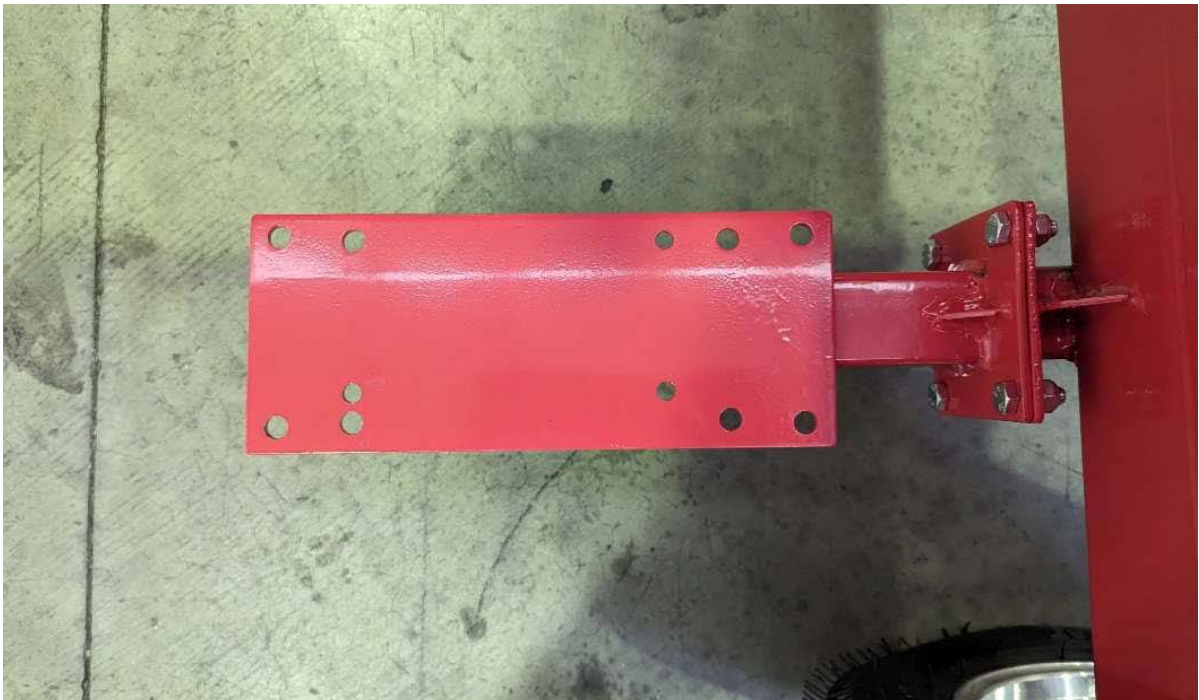
## Step 5: Attach jockey wheel to tow bar

Attaching the jockey wheel to the tow bar is simple and allows the log splitter to take shape and becomes a mobile rolling frame. When attaching the jockey wheel, you will need to unravel the safety chains, loosen the mount and slide the jockey wheel in until the top notch lines up with the slot in the bracket, then tighten.



## Step 6: Attach engine support bracket to the oil tank

The next thing to do is attach your engine support bracket, this bolts on using 4 bolts to the front of your oil tank.





## Step 7: Attach the mud guard over the wheel

The next thing to do is attach the mud guards to the oil tank over the wheels. This is done with two 13mm bolts each side, please make sure to face the reflectors to the rear of the machine.



## Step 8: Attach the rear support leg

The next thing to do is attach the rear support leg to the tow bar, this is held in place by one bolt and a pin (this is so it can be folded up and down). Also make sure the pin is on the top side of the bracket so it can pivot into both positions.





## Step 9: Attaching the I beam to the tow bar

The I beam is the heaviest part of the log splitter and should be done with care. When attaching the I beam you will need to lift the beam higher than the tow bar and line up a pin at the rear near the support leg and a spring-loaded pin at the front near your jockey wheel.



## Step 10: Attaching the control valve

When attaching the control valve, it is important that there is thread tape on the threads of the control valve as this creates a good seal and prevents any seepage of oil. Please note you need to make sure once the log splitter control valve is tight the forward arrow needs to be facing the end plate.





## Step 11: Attach your engine to your engine support bracket

Your engine will sit on your engine support bracket with the pump going under the tow bar. Your engine support bracket has multiple holes in it to account for different engine options. When booting your engine please be sure to use the 4 long bolt with the spring washers provided.

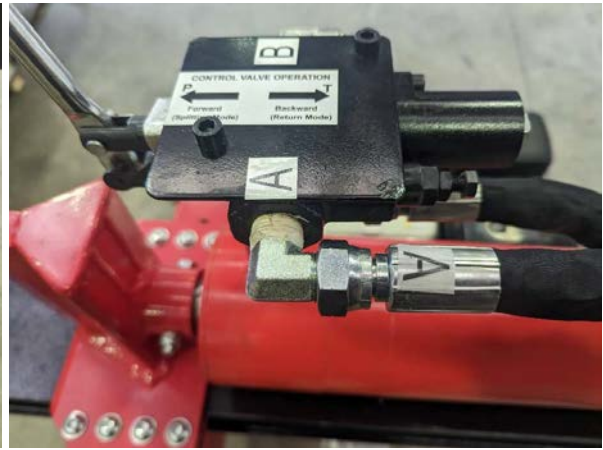
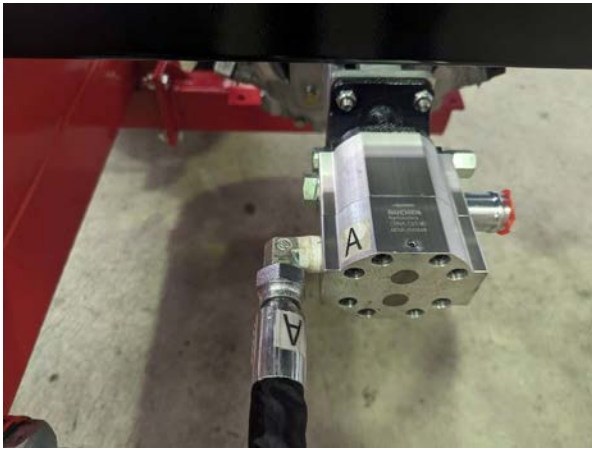


## Step 12: Attach the hydraulic hose

Now that you have attached your engine and control valve you have all the outlets and inlets for your hydraulic lines. Your control valve and hydraulic pump should have A and B stickers to show which hose goes where. The short hydraulic line will go from the bottom of the control valve to the rear of the ram. Please note when you run your hydraulic lines you will need to cross them under the I beam but above the tow bar (this is so the log splitter can still be put in a vertical position). You will also need to attach the hydraulic feed line and secure it with the hose clamps provided.







## Step 13: (Optional) Attaching your battery box

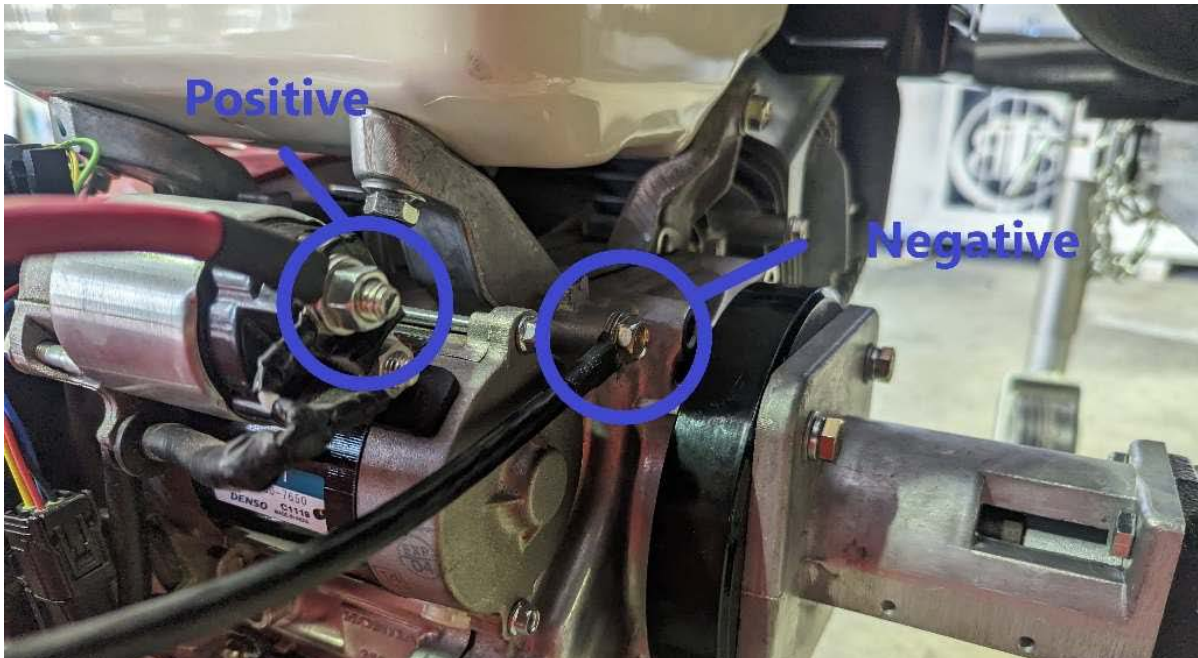
If your log splitter is an electric start model you will need to attach your battery box and battery to your engine. First you will need to attach your battery box with the two leftover 13mm bolts (the same used for the mud guards.) to the rear of the machine. After you have installed your battery box and battery you can install the battery box lid.





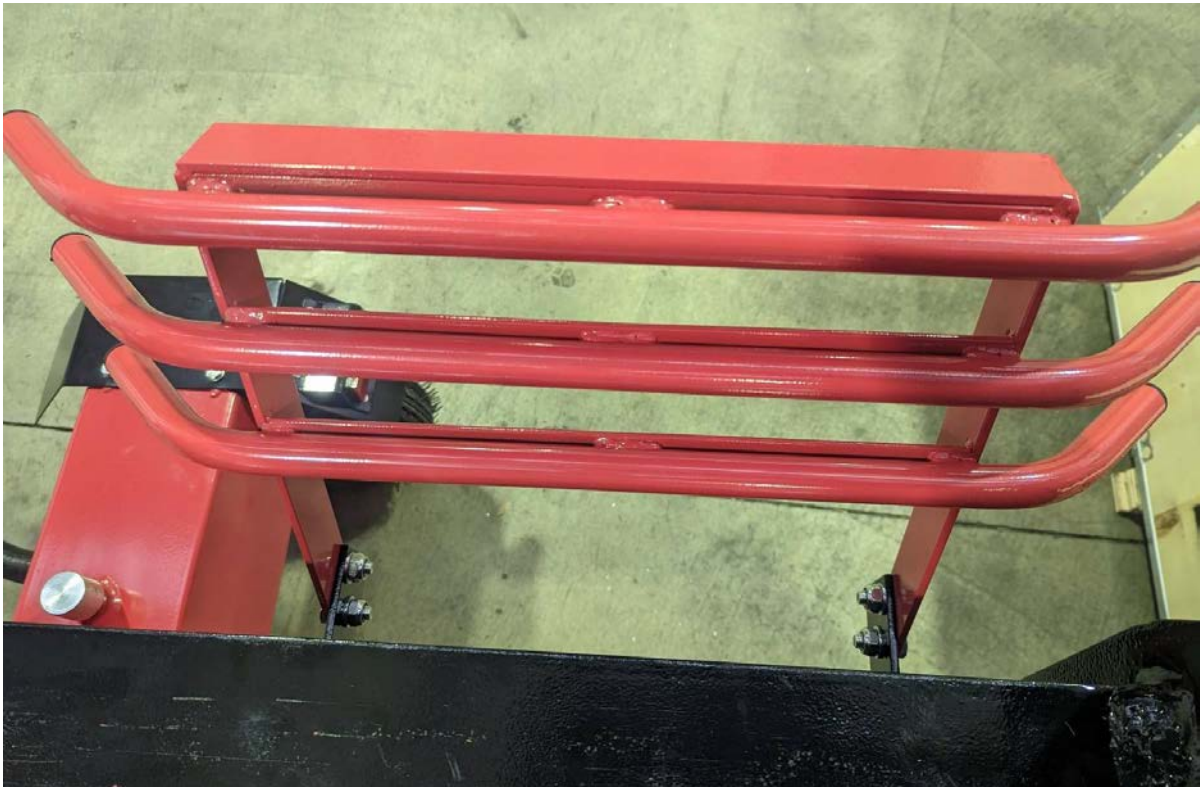
## Step 14: (Optional) Connecting your battery

After the battery box is attached you can wire up your positive (red) and negative (black) wires. Please note it is best to wire these to your engine first to reduce the risk of shortening. The positive wire will be attached to the positive side of the starters solenoid and the negative will need to be earth the engine block. After this you can attach your leads to your battery.



## Step 15: (Optional) Attaching your log tables

The log tables on your log splitter don't have to be used but can be helpful if you are operating the log splitter by yourself. On one side of the log splitter tables there is a 45-degree set of bars that help to prevent the log rolling off after it has been split, the other side is a table held on by a 45-degree bracket. The bars are held on with 4 bolts to the tabs on the I beam. The table has a bracket held in the same way with the table bolting to the top.





## **Step 16: Adding oil to your engine**

Now that your log splitter is built you will need to add oil to your engine. Depending on your engine option will depend on the oil and amount of oil you need to add to your engine. When adding the oil please make sure you use the jockey wheel, and the engine is sitting level. Please not a good indicator that your engine oil is full is to add it to the level of the threads where the dipstick screws in.



## **Step 17: Adding hydraulic oil to your machine**

After engine oil has been added to your machine you will need to add your hydraulic oil. Our 40/65T log splitter range holds a maximum oil level of 24 liters and a minimum of 18 liters. We recommend 20L as a good level, we also recommend the use of ISO68 hydraulic oil.

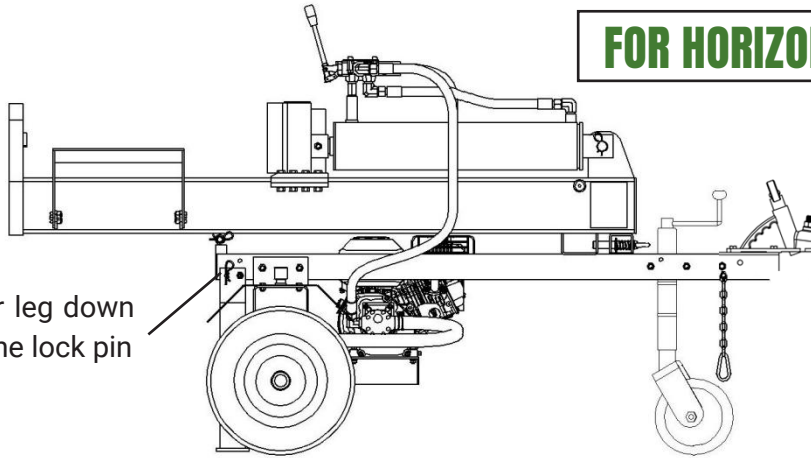
## **Step 18: Fueling and bleeding your log splitter**

After your engine oil and hydraulic oil are full you will need to start the machine without the silver hydraulic oil tank cap on and move your ram back and forth using to prime and bleed out any air from your hydraulic system. After this is done, reinstall your oil cap and your machine is ready for use. (Please note after your machine is switch off this is a good time to check all your fitting for any hydraulic leaks)

# OPERATION

## FOR HORIZONTAL USE

Rotate rear leg down  
and slide the lock pin

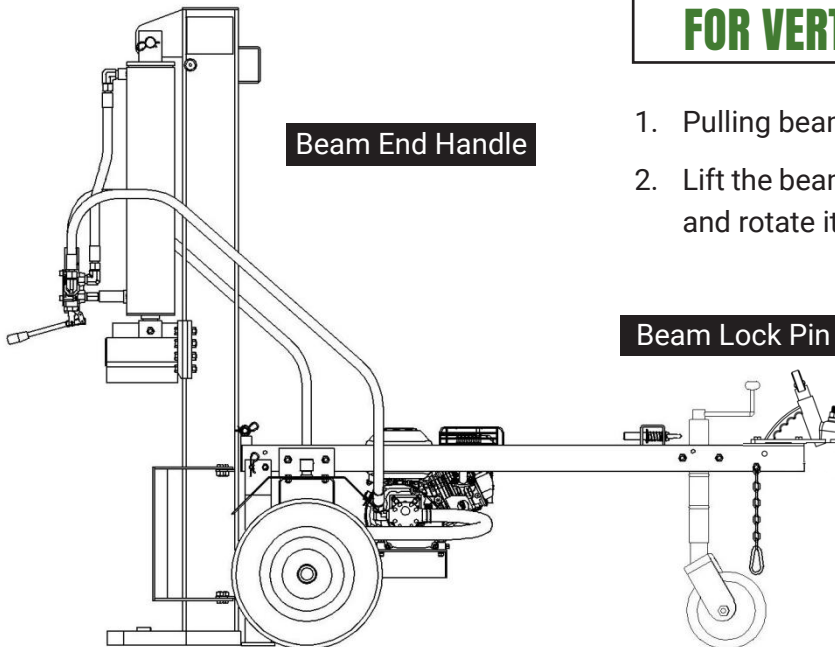


## FOR VERTICAL USE

Beam End Handle

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

Beam Lock Pin



## FOR HORIZONTAL TOWING

Rotate the leg up and  
slide the lock pin

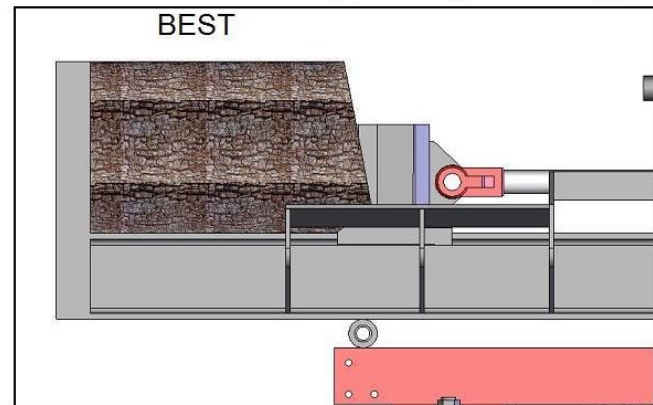
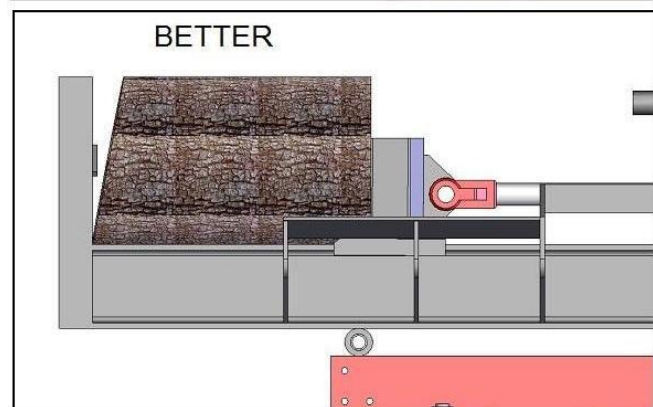
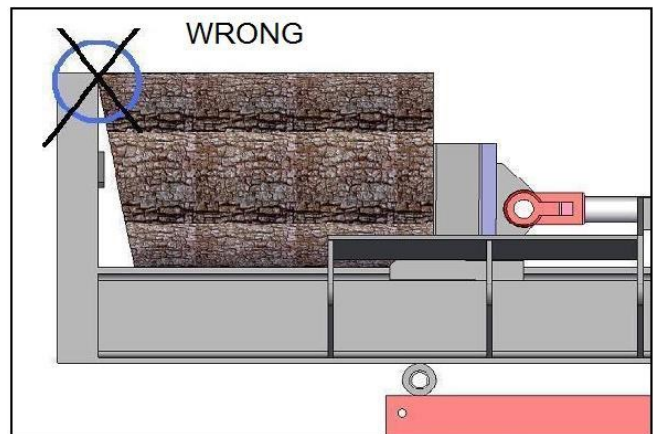
Press handle down  
and lock tightly



Hook safety chain  
to tow vehicle

## TIPS FOR SPLITTING LOGS NOT CUT SQUARE

1. **Identify Ends:** Determine which end of the log is less square. This might be the end with more of an irregular shape or more angular cuts.
2. **Positioning the Log:** Place the log on the splitter so that the less square (more irregular) end is towards the beam and wedge. This positioning helps in utilising the natural force of the wedge penetrating the uneven end, potentially making the splitting process smoother.
3. **Square End Placement:** Position the more square (regular) end towards the end plate of the log splitter. This end typically provides a more stable base against the end plate, allowing for better overall stability during the splitting process.
4. **Ensure Stability:** Before splitting, ensure the log is stable on the beam. If the log wobbles or shifts, use wooden shims or small pieces of wood to stabilise it. This is crucial for safety and effectiveness.
5. **Operate Carefully:** Proceed with splitting the log by operating the control valve handle. As always, ensure that your hands and all other body parts are well clear of the moving parts.
6. **Reposition as Needed:** If the first split does not completely separate the log, reposition the remaining pieces according to their new shapes and repeat the splitting process. Remember to always position the least square ends towards the wedge.



# PRE-OPERATION CHECK

## Engine Fuel and Oil

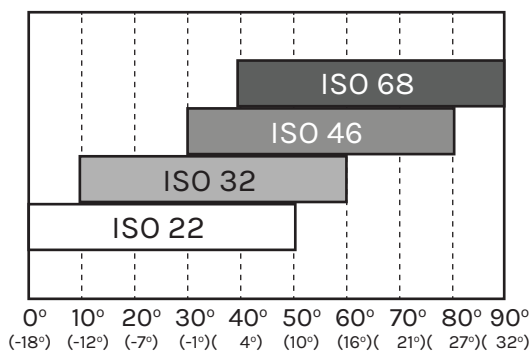
Before using your log splitter, it's important to properly fill it with fuel and oil:

1. **Check the Manual:** Refer to the engine manual for specific instructions on the type of petrol and engine oil suitable for your model.
2. **Engine Oil:**
  - » **Check Before Use:** Many log splitters are shipped without engine oil, so always check the oil level first.
  - » **Adding Oil:** Carefully fill the engine with oil, making sure not to overfill. Use the type and amount of oil specified in the manual.
3. **Adding Petrol:**
  - » Fill the petrol when the log splitter is either horizontal or vertical.

## Hydraulic Oil Fill-Up

When you first receive your log splitter, you'll need to fill the hydraulic fluid reservoir, as it is shipped empty.

1. **Locate the Dipstick:** Find the vented reservoir dipstick next to the engine on top of the reservoir tank.

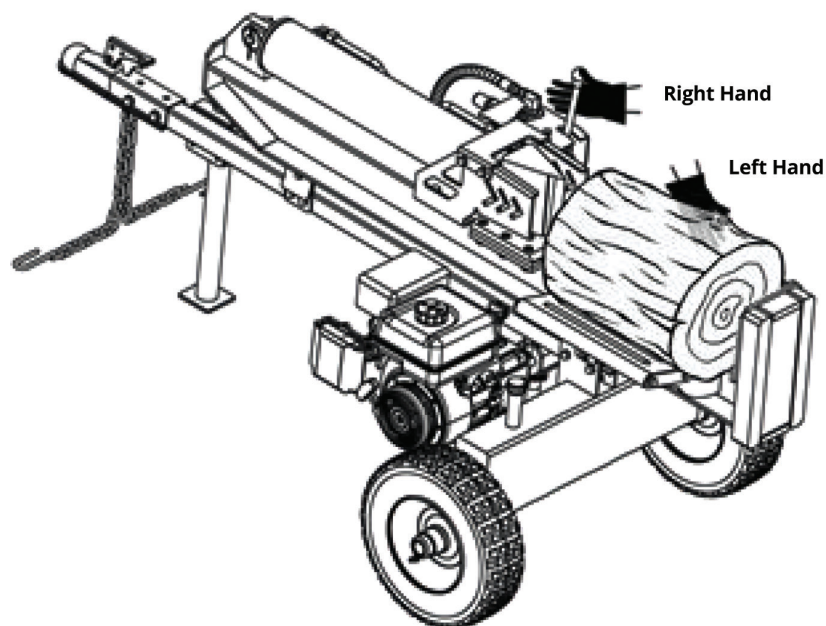


2. **Choose the Right Oil:**
  - » Check the outside temperature range where you'll use the log splitter.
  - » Use the provided chart to select the appropriate hydraulic oil.
  - » Recommended oil is Hydraulic oil ISO68.
  - » **Important:** Do not mix different types and grades of hydraulic oil/fluids.

3. **Fill the Reservoir:**
  - » Slowly add the hydraulic oil into the reservoir, watching the dipstick until the oil reaches the maximum line.
  - » Be careful not to overfill. Overfilling can cause leaks as the oil expands from the heat during operation.
4. **Cycle the Hydraulic System:**
  - » Start the engine.
  - » Use the control handle to move the wedge fully out and then back in, repeating this full cycle 12 times. This helps distribute the hydraulic fluid throughout the system.
  - » After cycling, turn off the engine and recheck the oil level.
5. **Final Check:**
  - » Ensure the oil level is above the minimum line on the dipstick and below the maximum. Add more oil if it's too low.
  - » Always check the hydraulic fluid level before each use to prevent damage to the hydraulic pump.

## OPERATION

1. **Starting the Engine:** Refer to the Engine Owner's Manual included with your log splitter for detailed instructions on how to start the engine.
2. **Positioning the Log:** Grasp the log from the sides and place it securely on top of the beam, resting against the end plate. Always align the log so that you are splitting it in the direction of the grain.
3. **Stabilising the Log:** Place your left hand on the side of the log to stabilize it.
4. **Splitting the Log:**
  - » Use your right hand to push the control handle lever forward to initiate the splitting.
  - » Remove your left hand from the log as soon as the wedge begins to make contact with the log.
  - » Continue holding the control handle in the forward position until the log is completely split.
5. **Handling the Split:**
  - » If you need to stop the wedge at any point due to unsafe conditions, release the control handle immediately.
  - » NEVER try to catch falling pieces of wood—let them fall safely to the ground.
6. **Retracting the Wedge:**
  - » Once the log is split, or the wedge is fully extended, promptly move the control handle to the reverse position to avoid damaging the hydraulic system and voiding your warranty.
  - » Continue holding the handle in the REVERSE position until the wedge is fully retracted. This action allows the partially split wood to contact the log dislodgers.
7. **Removing the Wood:**
  - » Remove any partially split pieces from the wedge.
  - » For logs that are not fully split, position them for a second attempt, either from the opposite end or another section of the log.





# MAINTENANCE

Proper maintenance is crucial for ensuring the safety and longevity of your log splitter. Follow these steps to safely put your log splitter into maintenance mode and perform necessary maintenance tasks:

## 1. Entering Maintenance Mode:

- » **Turn Off the Engine:** Ensure the engine is completely shut off before starting any maintenance work.
- » **Relieve Hydraulic Pressure:** Move the control valve handle forward and backward several times to relieve any built-up hydraulic pressure in the system. This step is essential for preventing accidental operation or hydraulic fluid spray during maintenance.

## 2. Performing Maintenance:

- » **Conduct Maintenance Tasks:** Perform the maintenance tasks as required, such as changing hydraulic fluid, checking hoses for wear or damage, and inspecting mechanical components for any signs of fatigue.
- » **Refer to Manuals:** Always refer to the engine owner's manual for specific maintenance instructions related to the engine. This manual will provide detailed guidance on tasks such as changing the engine oil, cleaning or replacing filters, and checking spark plugs.

## 3. Reassembling and Safety Checks:

- » **Reinstall Guards and Shields:** After maintenance, ensure all guards, shields, and other safety features are correctly reinstalled. These components are critical for safe operation, and their absence can lead to serious injuries.
- » **Safety Feature Check:** Conduct a thorough check to ensure that all safety features are functioning correctly. This includes testing safety switches, checking the integrity of protective coverings, and ensuring that all nuts and bolts are tightened to the correct specifications.

## 4. Post-Maintenance Testing:

- » **Run a Safety Test:** Once maintenance is complete and all parts are reassembled, perform a test run to ensure everything is operating smoothly. This test should be done in a controlled environment, where you can immediately shut down the equipment if something seems wrong.

## 5. Documentation:

- » **Record Maintenance:** Keep a log of all maintenance activities, including dates and details of the tasks performed. This record will help in scheduling future maintenance and can be important for warranty purposes.

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

## ENGINE MAINTENANCE

- » **Consult Manual:** Always refer to the Engine Owner's Manual included with your log splitter for detailed instructions on engine maintenance, including checking and changing the engine oil.
- » **Oil Draining Precautions:** When draining engine oil, shield the hoses and frame to prevent oil spillage. After draining, clean any residual oil from the log splitter and hoses to prevent damage.

## TYRE PRESSURE

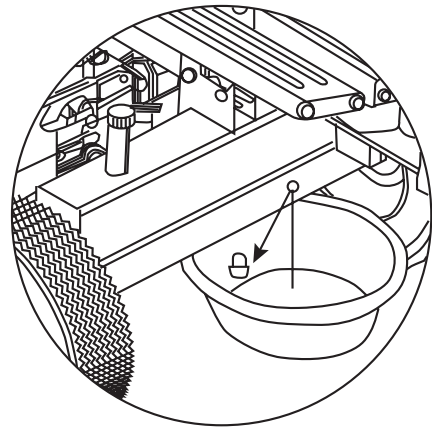
- » **Type and Pressure:** The tires on your log splitter are designed for off-road use. The maximum recommended operating pressure is 30 psi.
- » **Safety Warning:** Never exceed the manufacturer's recommended tire pressure. Always maintain equal pressure in both tires to ensure even performance and reduce wear.

## HYDRAULIC FLUID MAINTENANCE

- » **Regular Checks:** Before each use, check the hydraulic fluid level in the reservoir tank. Keep the fluid level within the specified range on the dipstick.
- » **Fluid Change Frequency:** Change the hydraulic fluid every 100 hours of operation. Follow these steps:
  1. **Drain Fluid:** Place an oil collection container under the tank. Remove the oil drain plug and let the fluid drain out. Note that the tank has a 25 litres capacity, but more fluid may be required due to fluid retention in the system's components.

2. **Reattach and Refill:** After draining, reinstall the drain plug and tighten it. Refer to the Hydraulic Oil Fill-Up section to refill the reservoir, ensuring it is properly filled and that air is expelled from the system.

- » **Disposal:** Dispose of used hydraulic fluid and engine oil at an approved oil recycling centre.
- » **System Flushing:** When servicing the tank, pump, or valve, flush the system with kerosene to remove any contaminants that may damage hydraulic components.



## BEAM AND SPLITTING WEDGE MAINTENANCE

1. **Lubrication:** Before each use, lubricate the top, sides, and bottom of the beam, as well as the areas where it comes into contact with the splitting wedge. Use engine oil for effective lubrication.
2. **Wedge Care:** Regularly inspect the wedge for dullness or nicks. If the wedge becomes dull or nicked, sharpen it to maintain efficient splitting performance.

## OFF-SEASON STORAGE

If you plan not to use your log splitter for more than 30 days, follow these steps to prepare it for off-season storage:

1. **Engine Preparation:** Consult the Engine Owner's Manual provided with your log splitter for detailed instructions on how to prepare the engine for storage.

2. **Cleaning:** Clean the log splitter thoroughly to remove dirt, debris, and wood residue.
  - » **Avoid Water Pressure:** Do not use pressure washers or garden hoses for cleaning as they can damage the bearings or engine and shorten the equipment's life.
3. **Rust Prevention:** After cleaning, wipe the machine with an oiled rag, paying special attention to the wedge and the beam to prevent rust.
4. **Storage Location:** Store the log splitter in a clean, dry area away from corrosive materials such as fertilizer.
  - » **Ventilation Considerations:** If storing in an unventilated or metal storage shed, apply a light oil or silicone to rustproof the equipment. Using a log splitter cover is also recommended to protect against dust and moisture.

## SPECIFICATION

Maximum Pressure	3500 psi
Maximum Flow	15.4 gpm
Hydraulic Fluid Capacity	25 litres
Hydraulic Fluid Type	ISO68
Coupler Size	2" (50 mm) Ball
Maximum Towing Speed	30Km/h Off Road use only
Maximum Log Length	635mm or 25 inches
Maximum Log Diameter	480mm or 19 inches
Hydraulic Cylinder Bore	5"
Operation	Horizontal and Vertical operation
Hydraulic Cylinder Stroke	21 inches

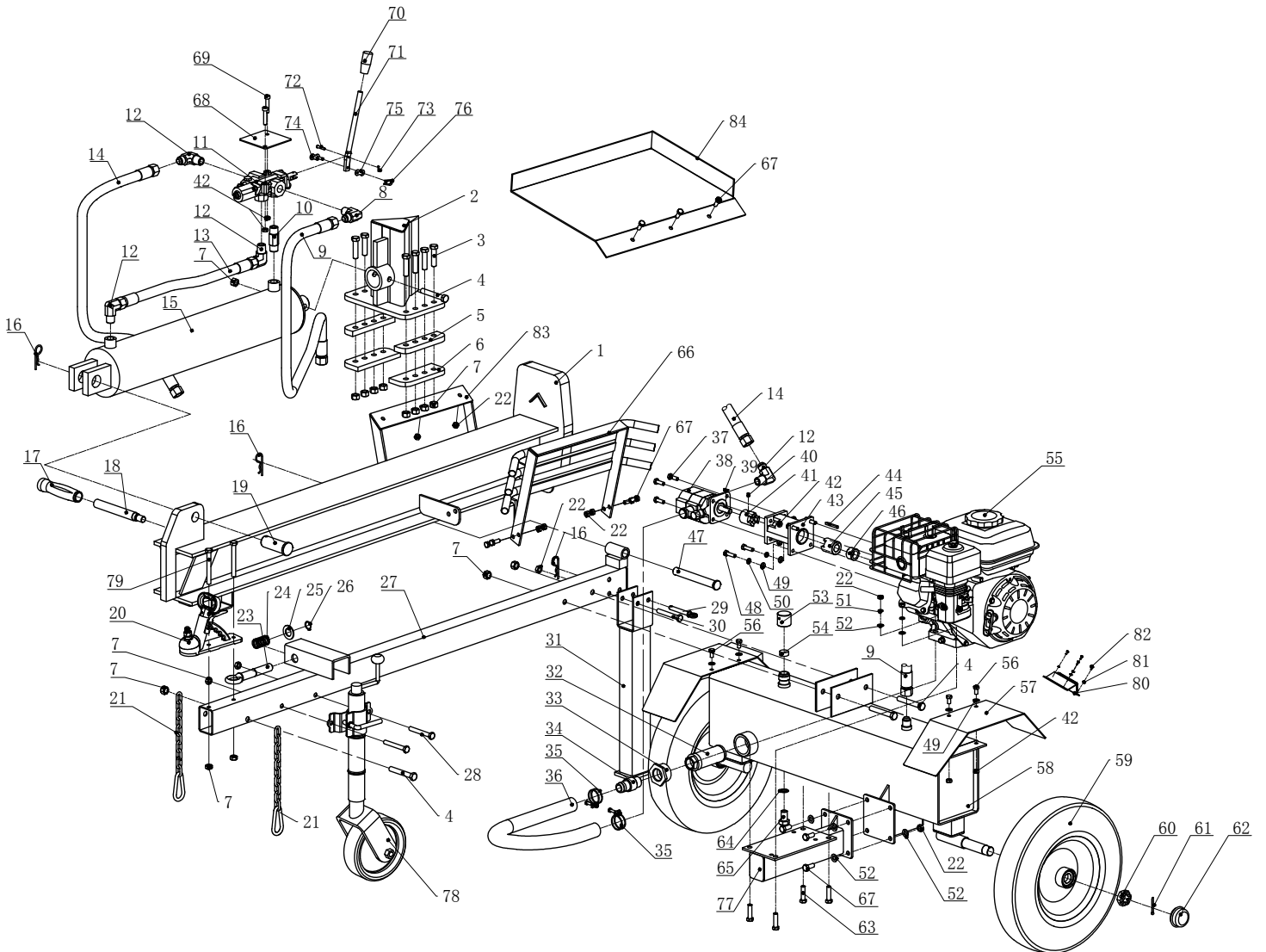


# TROUBLESHOOTING

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

# REPLACEMENT PARTS LIST



PART NO.	DESCRIPTION	QYT
1	Beam	1
2	Wedge	1
3	Hex Bolt m12x50	8
4	Hex Bolt m12x80	4
5	Wedge Spacer	2
6	Wedge Plate	2
7	Lock Nut M12	16
8	1/2"-22x1.5 Connector	1
9	Oil Hose c	1

PART NO.	DESCRIPTION	QYT
10	Pope Joint	1
11	Control Valve	1
12	1/2"-1/2"Connector	4
13	Oil Hose B	1
14	Oil Hose A	1
15	Cylinder	1
16	R Pin	3
17	Control Handle Cover	1
18	Control Handle	1

PART NO.	DESCRIPTION	QYT
19	Cylinder Pin	1
20	Tow 2in	1
21	Chain	2
22	Lock Nut m10	17
23	Beam Lock Pin	1
24	Return Spring	1
25	Washer φ20	1
26	Shaft Circlip φ19	1
27	Tow Bar	1
28	Hex Bolt M12x75	4
29	Pin	1
30	Hex Bolt M10x75	1
31	Supporter	2
32	Oil Filter 40x180-j	1
33	Nut Zg1 1/2	1
34	Inlet Oil Hose Connector g1	1
35	Hoop	2
36	Suction Pipe	1
37	Hex Bolt M8x25	4
38	Gear Pump	1
39	Key	1
40	Screw M6x10	1
41	Gear Pump Connector	1
42	Lock Nut M8	10
43	Connector Stand	1
44	Flat Key	1
45	Engine Connector	1
46	Engine Bushing	1
47	Beam Roll Pin	1
48	Hex Bolt M8x30	4
49	Flat Washer ø8	8
50	Spring Washer ø8	4
51	Spring Washer ø10	8

PART NO.	DESCRIPTION	QYT
52	Flat Washer ø10	16
53	Oil Tank Cap	1
54	Sponge Filter	1
55	Engine	1
56	Hex Bolt M8x16	4
57	Wheel Guard	2
58	Oil Tank	1
59	16" Pneumatic Tire	2
60	Thin Slotted Nuts M24x2	2
61	Cotter Pin φ4x36	2
62	Wheel Cap	2
63	Hex Bolt M10x45	4
64	Combination Washer φ16	1
65	Oil Drain Bolt M16x1.5	1
66	Guide Plate	2
67	Hex Bolt M10x25	16
68	Nameplate	1
69	Screw M8x40	2
70	Handle Cover	1
71	Valve Handle	1
72	Pin 5x25b	1
73	Cotter Pin φ1.6x10	1
74	Roller Chain	1
75	Chain Plat	1
76	Locker	1
77	Engine Stand	1
78	Jockey wheel	1
79	Wedge Fender	1
80	Reflectors	2
81	Nut M4	8
82	Screw M4x10	8
83	Cradle	1
84	Log Tray	1



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Unit 2/3 Delta Place Albion Park Rail NSW 2527 • 02 4257 4787

