Bullmax
TOUGH TOOLS & EQUIPMENT

BULLMAX LOG SPLITTER 32 TON

OPERATOR'S MANUAL

MODEL

CODE: BMLS-H32T
SKU: 100312

SERIAL NUMBER

_____

PURCHASE DATE

_____

POWERED by HONDA



FOR YOUR SAFETY

READ AND UNDERSTAND THE ENTIRE MANUAL BEFORE OPERATING MACHINE

This User Manual covers the Bullmax Log Splitter Component.
Refer to the Honda User Manual for safe operation of the Honda GX200 engine.

www.bullmax.com.au
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CONTENTS

Introduction 3

Specifications 3

Recycling and Disposal 4

Symbols 4

Safety 6

General Safety Rules 6

Specific Safety Rules 8

Unpacking the Container 11

Contents Supplied 12

Assembly 14

Know Your Machine 24

Features and Controls 24

Operation 26

Transporting 30

Maintenance 31

Storage 32

Troubleshooting 33

Parts Schedule 34

Parts List (Log Splitter) 35

Parts List (Lifter Attachment) 36

Warranty 38

INTRODUCTION

Your new Petrol Log Splitter will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find it easy and safe to operate, and with proper care, it will give you many years of dependable service.

Carefully read through this entire operator's manual before using your new unit. Pay attention to all cautions and warnings.

This unit is a petrol engine driven hydraulic log splitter. It is designed to split wood for use as firewood for a stove or fireplace. This log splitter will only split logs lengthwise with the grain.

Engine Manual

The Engine Manufacturer is responsible for all engine-related issues with regards to performance, power rating, specifications, warranty and service. Please refer to the Engine Manufacturer's owner/operator's manual, packed separately with your unit, for more information.

SPECIFICATIONS

Code: BMLS-H32T	SKU: 100312
Splitting Force*	32 ton
Log Capacity	660 mm
Displacement	196 cc
Gross Torque @ 2600rpm	12.0 NM
Fuel Capacity	3.0 L
Engine Oil Capacity	0.6 L
Starting System	Recoil
Control Valve	Auto Return with Adjustable Detent
Pump Size	14 GPM
Hydraulic Cylinder Bore	115 mm
Hydraulic Cylinder Stroke	610 mm
Hydraulic Rod Diameter	45 mm

Cylinder Cycle Time*	15.3 seconds
Hydraulic Capacity	22.5 L
Hydraulic Oil Included	Pre-filled with premium hydraulic fluid
Replacement Filters	Built-in, Sealed, Suction Filter, Suction Screen
Hoses	High Pressure w/wire braid; Coil-wrapped
Beam	Heavy duty Box-shaped formed construction
Wedge Size	190 mm
Wedge Style	2-way
Rear Wheels	4.80-8, DOT Approved 16" O.D Road Tyres
Hitch Coupler	2" Ball with Safety Chains
Safety Chains	Standard
Max Towing Speed	25 kmh
Hitch Handle	Standard
Horizontal/Vertical Splitting	Standard
Open Operating Zone	Standard
Log Cradle	Standard
Weight	238 kg
Dimensions (L x W x H)	232 x 121 x 94cm

* Splitting force and cycle times may vary depending on mechanical and environmental conditions.

RECYCLING AND DISPOSAL



This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or check with your local authority or local stores for advice of environmental safe recycling.

SYMBOLS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



Read these instructions carefully.



Wear eye protection.
Wear hearing protection.



Wear protective gloves.



Wear safety footwear.



Do not remove or tamper with the protection and safety devices.



Don't stand or sit on the log splitter.



Operate the log splitter on level surfaces. Stay off slopes and slippery surfaces.



Do not touch parts that are hot from operation. Serious burns may result.



No smoking, sparks, or flames.



Properly dispose of waste oil!



Keep children and bystanders off and away.



Be sure the engine's switch is off before transporting the machine or performing any maintenance.



Keep hands and fingers away from all pinch points.



Never remove partially split wood from the wedge with your hands. Fingers may become trapped between the split wood.



Keep hands and feet away from moving parts. Moving parts can crush or cut.





Always keep body and hands away from pin holes or nozzles that eject hydraulic fluid under pressure. Escaping hydraulic fluid can puncture skin and cause blood poisoning.



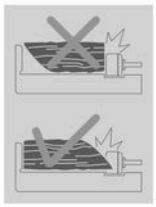
Thrown objects.



Check and fill hydraulic oil.



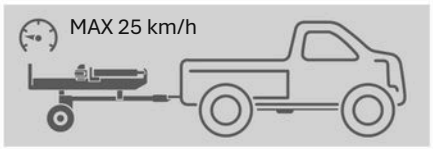
Follow the direction indicated to use the control lever.



For logs that are not cut square, the longest portion of the log should be rotated down and the most square end placed toward the end plate.



Do not transport with objects on the machine.

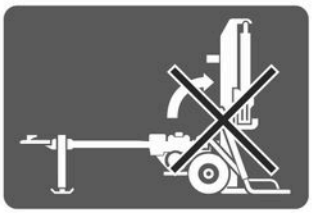


Maximum towing speed of 25 km/h.

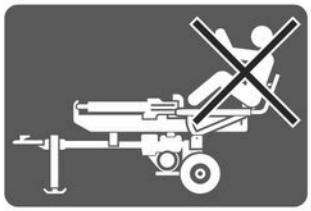
LOG LIFT TABLE ATTACHMENT



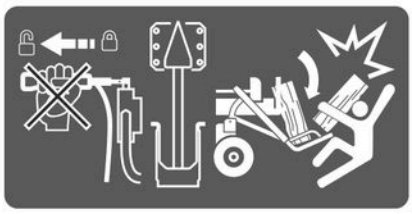
Wrong direction of the log may cause roll and fall when rise.



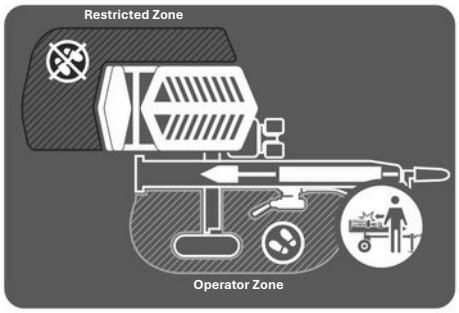
Vertical operating position is prohibited when the log lift table attachment is attached.



Do not sit on the log lift table.



When the wedge is extended and not fully returned back, do not pull the control lever outwards, otherwise the log lift table attachment maysuddenly drop down, risk of falling the log, damage and injury.



Always keep bystanders away at least 10 feet (3m) from this machine. Only one person should operate the log splitter and load the logs.

When the wedge or log lift table is moving, anybody including operator is prohibited to stand in the restricted zone.

SAFETY

GENERAL SAFETY RULES

Understand Your Machine

Read this manual and labels affixed to the machine to understand its limitations and potential hazards.

Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.

Make sure to read and understand all the instructions and safety precautions as outlined in the Engine Manufacturer's manual packed separately with your unit. Do not attempt to operate the machine until you fully understand how to properly operate and maintain the engine and how to avoid accidental injuries and/or property damage.

If the unit is to be used by someone other than original purchaser or loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, other people, and property.

Do not force the machine. Use the correct machine for your application. The correct machine will do the job more efficiently and safer at the rate it was designed.

Personal Safety

Do not permit children to operate this machine at any time.

Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off unit if anyone enters work area. Keep children under the watchful care of a responsible adult.

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly.

Dress properly. Wear heavy long pants, boots, and gloves. Do not wear loose clothing, short pants, or jewellery of any kind. Secure long hair so it is above shoulder level. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewellery, or long hair can be caught in moving parts.

Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Wear appropriate hearing protection.

Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.

Always keep hands and feet away from all pinch points.

Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.

Stay alert, watch what you are doing, and use common sense when operating the machine.

Do not overreach. Do not operate the machine while barefoot or when wearing sandals or similar lightweight footwear. Wear protective footwear that will protect your feet and improve your footing on slippery surfaces. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.

Inspect Your Machine

Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.

Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it. Check for fuel leaks. Keep the machine in safe working condition.

Do not use the machine if the engine's switch does not turn it on or off.

Regularly check to see that keys and adjusting wrenches are removed from the machine area before starting it. A wrench or a key that is left attached to a rotating part of the machine may result in personal injury.

Avoid accidental starting. Be sure the engine's switch is off before transporting the machine or performing any maintenance or service on the unit. Transporting or performing maintenance or service on a machine with its switch on invites accidents.

If the machine should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning sign of trouble.

Engine Safety

This machine is equipped with an internal combustion engine.

Never start or run the engine inside a closed area. The exhaust fumes are dangerous, containing carbon monoxide, an odourless and deadly gas. Operate this unit only in a well-ventilated outdoor area.

Do not tamper with the engine to run it at excessive speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.

Keep a fire extinguisher on hand when operating this log splitter in dry areas as a precautionary measure.

Fuel Safety

Fuel is highly flammable, and its vapours can explode if ignited. Take precautions when using to reduce the chance of serious personal injury.

When refilling or draining the fuel tank, use an approved fuel storage container while in a clean, well-ventilated outdoor area. Do not smoke, or allow sparks, open flames, or other sources of ignition near the area while adding fuel or operating the unit. Never fill the fuel tank indoors.

Keep grounded conductive objects, such as tools, away from exposed, live electrical parts and connections to avoid sparking or arcing. These events could ignite fumes or vapours.

Always stop the engine and allow it to cool before filling the fuel tank. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot. Do not operate the machine with known leaks in the fuel system.

Loosen the fuel tank cap slowly to relieve any pressure in the tank.

Never overfill the fuel tank. Fill the tank to no more than 1/2" below the bottom of the filler neck to provide space for expansion as the heat of the engine can cause fuel to expand.

Replace all fuel tank and container caps securely and wipe up spilled fuel. Never operate the unit without the fuel cap securely in place.

Avoid creating a source of ignition for spilled fuel. If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapours have dissipated.

When fuel is spilled on yourself or your clothes, wash your skin and change clothes immediately.

Store fuel in containers specifically designed and approved for this purpose.

Store fuel in a cool, well-ventilated area, safely away from sparks, open flames, or other sources of ignition.

Never store fuel or a machine with fuel in the tank inside a building where fumes may reach a spark, open flame, or any other source of ignition, such as a water heater, furnace, or clothes dryer. Allow the engine to cool before storing in any enclosure.

Hydraulic System Safety

The hydraulic system of the machine requires careful inspection along with the mechanical parts. Be sure to replace frayed, kinked, cracked, or otherwise damaged hydraulic hoses or hydraulic components.

Hydraulic fluid can result in severe burns. Fluid in the hydraulic system can penetrate skin and result in serious injury or death. Be sure to stop the engine and relieve hydraulic pressure before doing any work on hydraulic parts.

Keep body and hands away from pin holes or nozzles that expel hydraulic fluid when under pressure. Use paper or cardboard, not hands, to search for leaks.

Ensure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.

Do not remove the cap from the hydraulic tank or reservoir while the machine is running. The tank could contain hot oil under pressure, which could result in serious injury.

Do not adjust the pressure setting on the hydraulic pump or valve.

If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries.

SPECIFIC SAFETY RULES

Preparation Of The Log

Both ends of the log should be cut as square as possible to prevent the log from rotating out of the splitter during operation.

Never split logs greater than the specified log capacity.

Do not operate the log splitter on icy, wet, muddy, or slippery ground. Only operate your log splitter on level ground.

Operating on a slope could cause the log splitter to roll over or logs to fall off the equipment, which could result in injury.

Do not move the log splitter over hilly or uneven terrain without a tow vehicle or adequate help.

Keep the work area free of clutter. Remove split wood from around the log splitter immediately after each use to avoid potential tripping.

Operator Zone

This unit is designed to be operated by one person located in the operator zone as shown in the following diagrams.

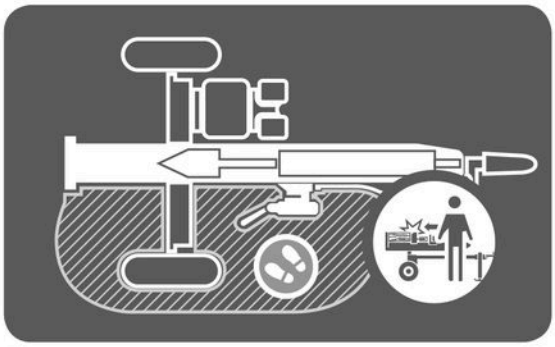
Operate the unit only when standing in the operator zone.

Always stop the unit and allow moving parts to stop before leaving operation zone. Do not leave a running unit unattended.

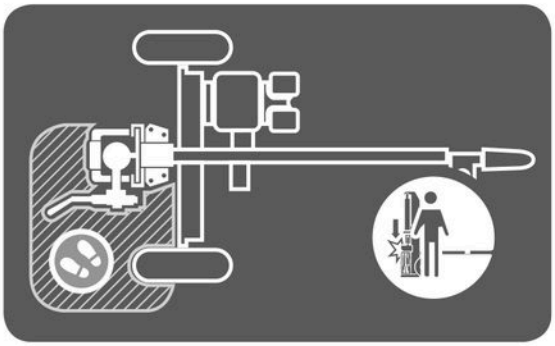
Many accidents occur when more than one person operates the log splitter.

The adult who loads and stabilises the log must be the person who operates the control handle.

Horizontal Operating Position



Vertical Operating Position



Vertical operating position is prohibited when the log lift table attachment is attached.

Machine Use And Care

Never operate the machine without good visibility or light.

Never attempt to split wood across the grain. The log splitter was not designed for cross-grain splitting.

Always block the front and back of both wheels to prevent unintended movement.

Hold the bark side of the logs when loading or positioning, never the ends. Never place your hands or any part of your body between a log and any part of the log splitter.

Do not straddle or step over the log splitter during operation.

Do not reach or bend over the log splitter to pick up a log.

When stabilising a log with the left hand, remove your hand when the wedge contacts the log or serious injury may occur.

Never attempt to split more than one log at a time.

Do not attempt to load your log splitter when the ram or wedge is in motion.

Use your hand to operate the control lever on the valve. Do not use your foot, a rope, or any extension device.

Do not move the log splitter while the engine is running.

Towing Safety

Check before towing to make sure the log splitter is correctly and securely attached to the towing vehicle and the safety chains are secured to the hitch or bumper of the vehicle with enough slack to allow turning. Always use a class I, 2" ball with this log splitter.

Never transport cargo on the log splitter.

Never allow anyone to ride or sit on the log splitter.

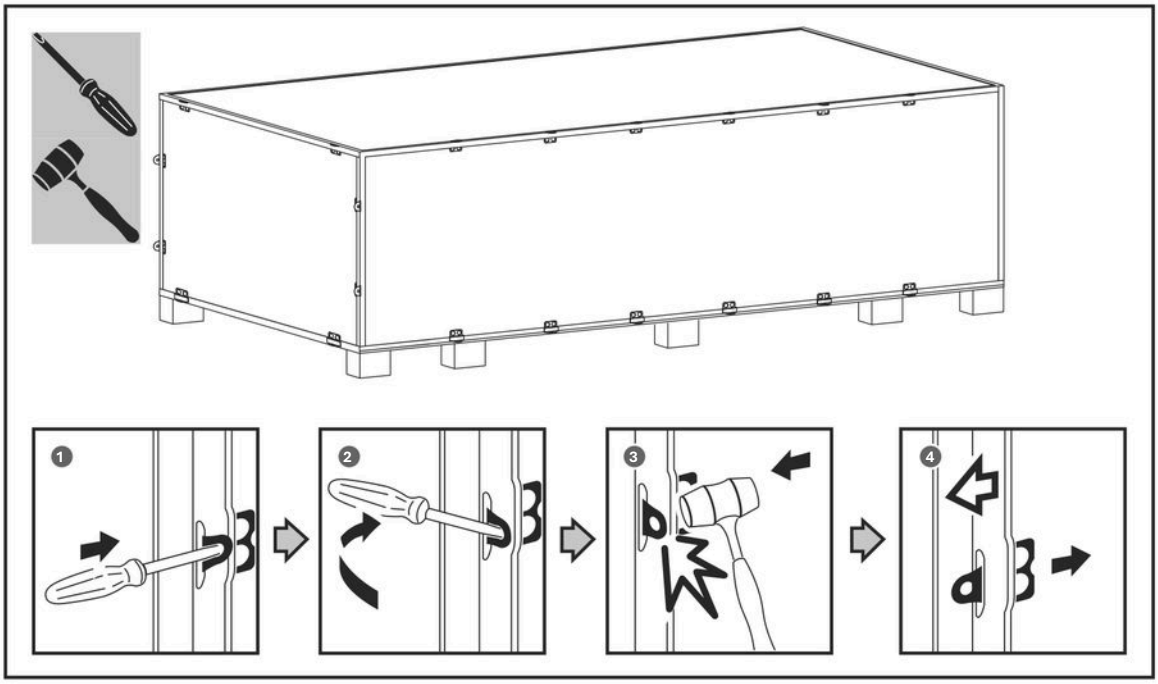
Always stop the engine, lock the beam in the horizontal position, and close the fuel shut-off valve when transporting the unit.

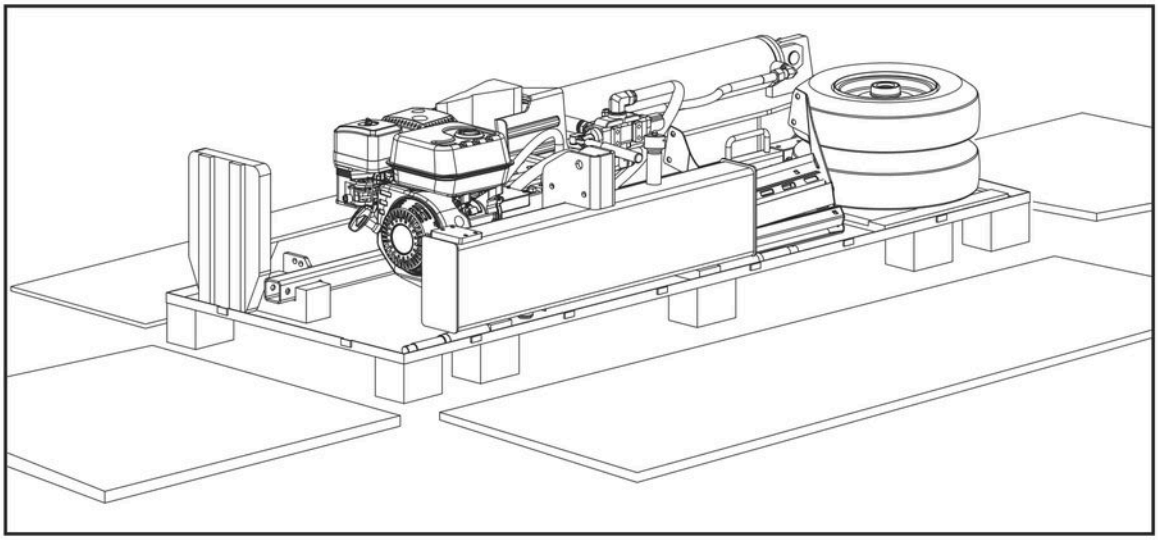
Use extra care when towing the log splitter. Do not exceed 25 km/h. Towing the log splitter at a speed greater than 25 km/h could result in loss of control, damage to the equipment, serious injury, or death.

Avoid sharp turns and steep angles. Avoid large holes or ditches when towing the equipment. Always be careful when backing up with your log splitter when towing; it could jackknife. Use caution when backing up; a spotter outside the vehicle is highly recommended. Disconnect the log splitter from the towing vehicle before operating it.

UNPACKING THE CONTAINER

Use the screwdriver and hammer to open all the side locks. Remove all the plywood plates.
Remove all the loose parts on the bottom pallets. Use scissors or a knife to cut all the straps.

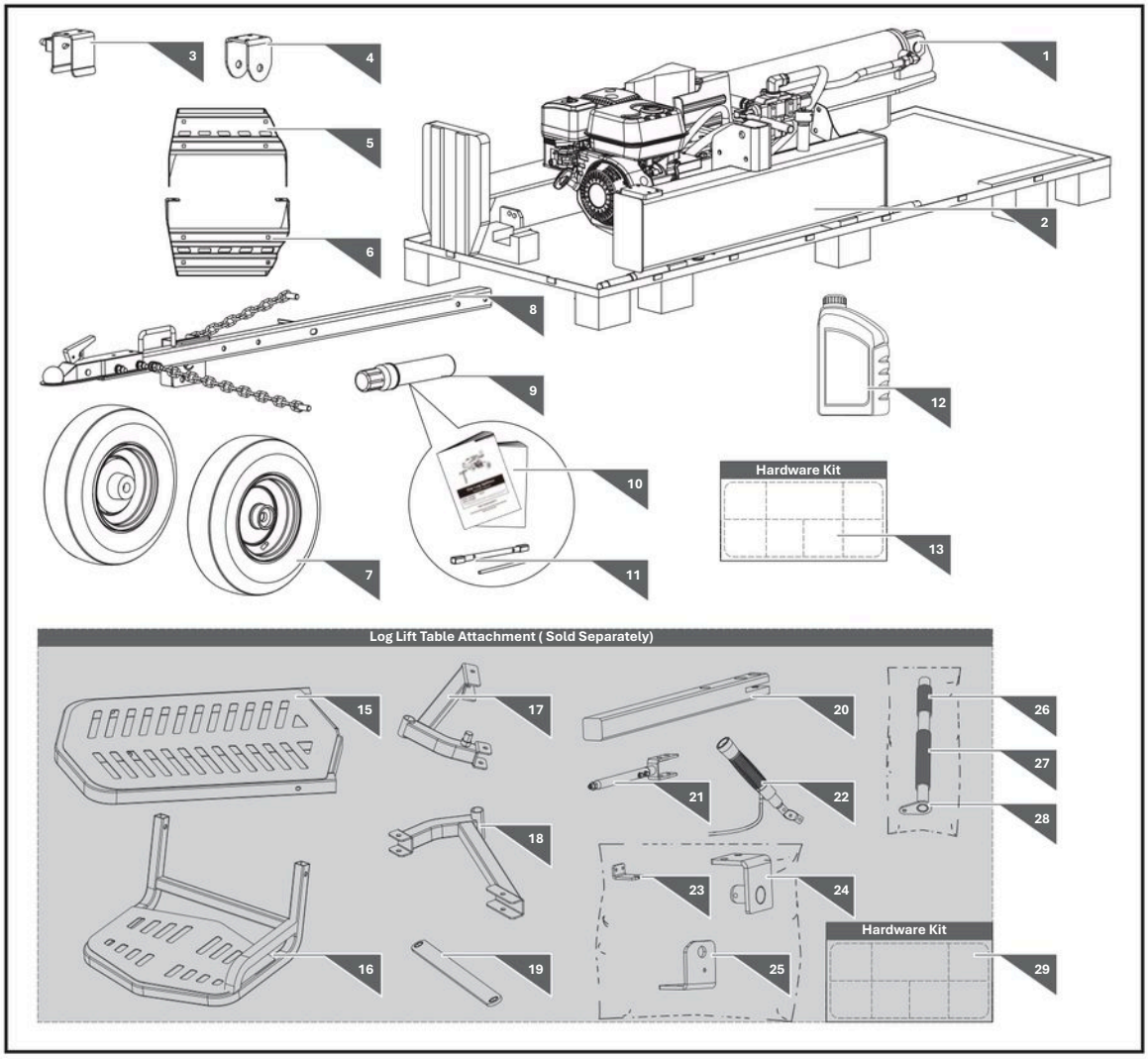




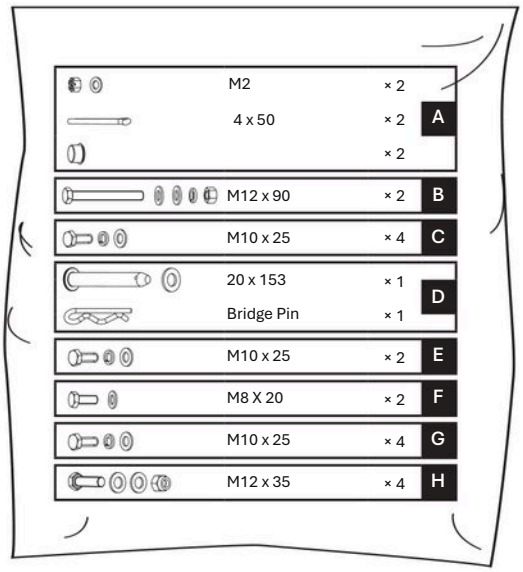
CONTENTS SUPPLIED

Your log splitter comes partially assembled and contains the following:

> **Heavy lifting required. Some of the components in these assembly instructions are heavy and can't be lifted by one person safely. Please plan to assemble this product when another person can be available to help.**

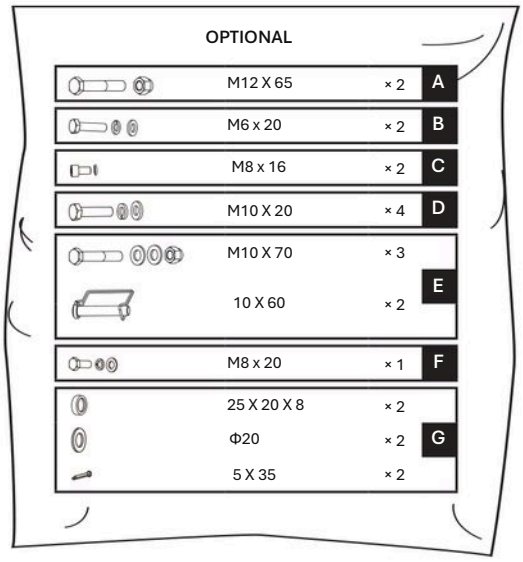


1. Beam with Cylinder
2. Reservoir with Engine
3. Beam Lock Bracket
4. Pivot Bracket
5. Log Cradle (Left)
6. Log Cradle (Right)
7. Wheels
8. Tow Bar
9. Manual Tube
10. Operator's Manual and Engine Manual
11. Tools for Spark plug Assembly
12. Engine Oil
13. Hardware Kit, Including:



Log Lift Table Attachment (Sold Separately)

15. Log lift table attachment-main table
16. Log lift table attachment-side table
17. Support Leg (left)
18. Support Leg (right)
19. Swing Arm
20. Slide-rail
21. Ejector Rod
22. Log lift table handle
23. Cable Fixing Plate
24. Bending Plate
25. Connecting Plate
26. Short Bushing
27. Long Bushing
28. Rotating Shaft
29. Hardware Kit, Including:

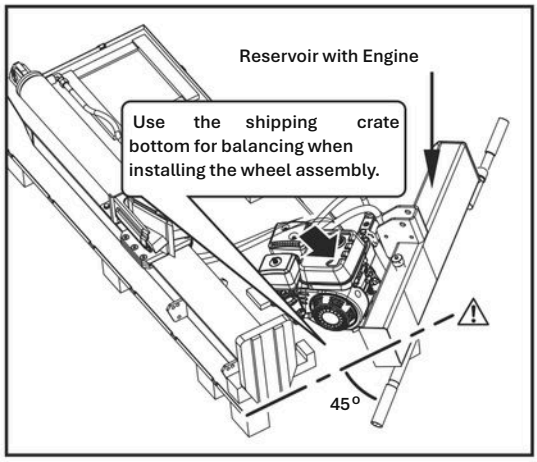


ASSEMBLY

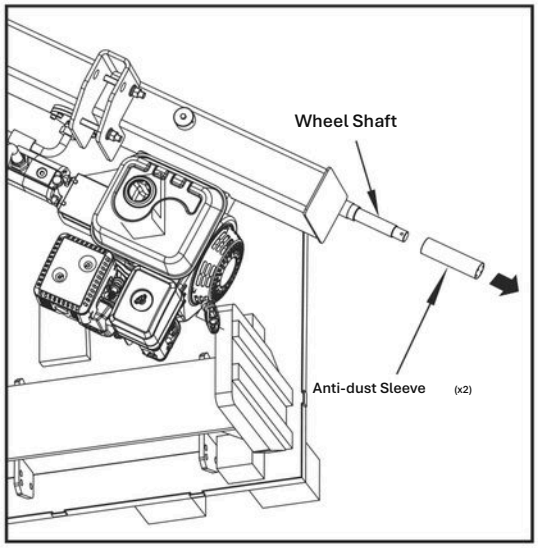
This log splitter was partially assembled at the factory. To assemble your machine follow the below instructions.

Wheels

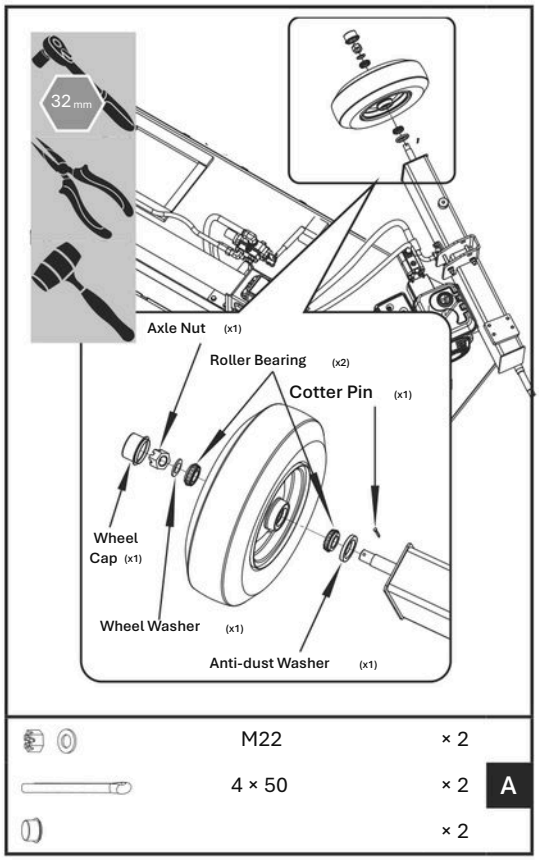
1. At least two people are needed to move the reservoir outside of the pallet. Place the engine at the end corner of the pallet.



2. Remove the two anti-dust sleeves from the wheel axle.



3. Assistant holds the engine, while the other person assembles the wheel opposite of the engine first.



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	4 × 50	× 2	
		× 2	

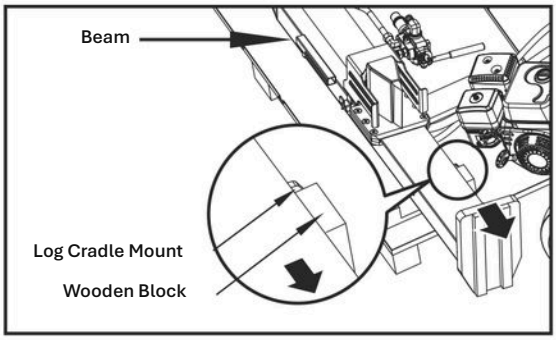
4. Slide the wheel with the valve stem facing out to the wheel axle and the other roller bearing, then put the wheel washer against the bearing. Use a 32mm socket to tighten the axle nut completely.
5. Spin the wheel clockwise or counterclock wise to ensure proper bearing seating.
6. Loosen the axle nut until it is loose enough to turn the wheel with your fingers.
7. Retighten the axle nut until "finger tight."
8. Insert the cotter pin through the hole in the axle. Bend open and spread the prongs in opposite directions so the axle nut will not come off (make sure the tyre spins freely).

Installation of the cotter pin is important and required. Failure to install the cotter pin can result in loss of wheel retention. Always assemble using a new cotter pin. Do not reuse.

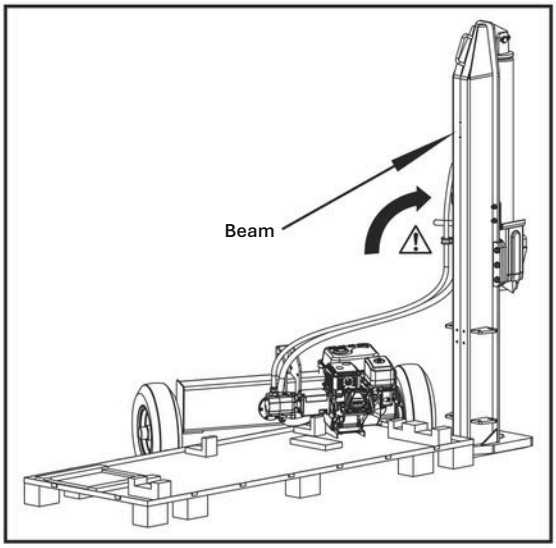
9. Use a soft-faced hammer to tap the anti-dust washer in the right position.
10. Align the wheel cap against the wheel hub. Use a soft-faced hammer to tap the wheel cap onto the wheel hub properly.
11. Follow the same procedure to assemble the other wheel (follow steps 3 – 10 under wheel assembly.)

Beam

1. Hold and pull the beam until the log cradle mount and the beam is against the wooden block in-pallet.



2. Slowly lift the top of the beam and stand the beam on the end plate in the vertical position.

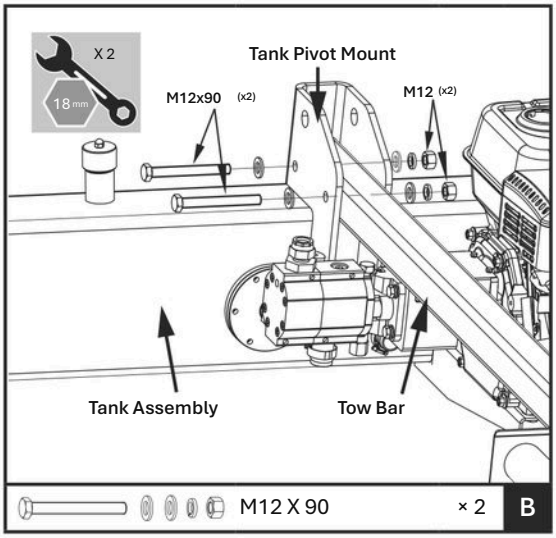


After the beam and cylinder assembly is in the vertical position, a helper is needed to prevent the beam from tipping over until it is secured on the hydraulic tank assembly with the hitch pin and R-clip.

The beam assembly is heavy and has a small foot print. When in the vertical position, the beam may fall, causing damage to the machine and could result in personal injury.

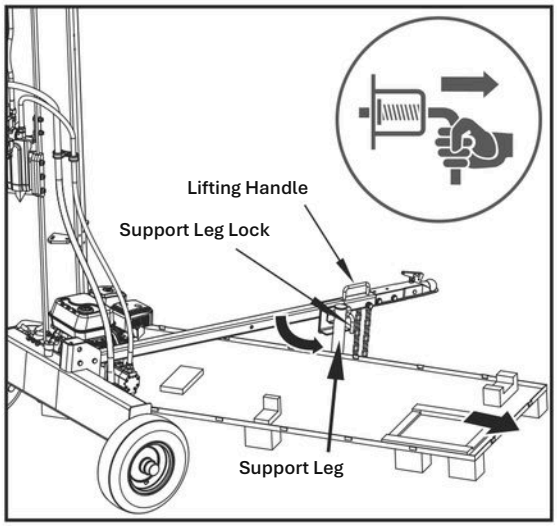
Tow Bar

Insert the tow bar into the tank pivot mount. Align the holes in the tow bar with the holes in the tank pivot mount. Connect and tighten the tow bar to the tank by using the M12x90 bolts, flat washers, spring washer, and nuts.



Support Leg

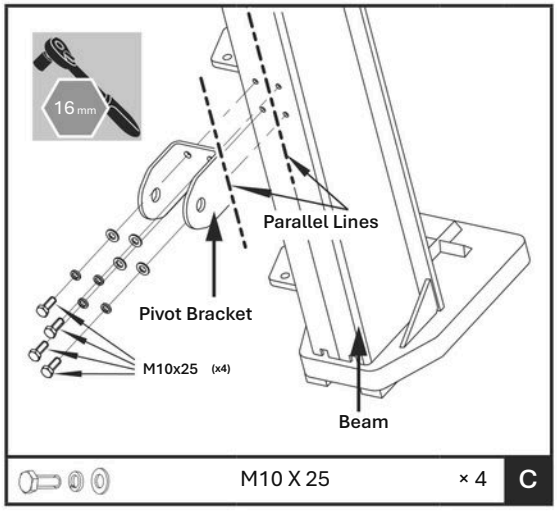
Lift the tow bar slightly. Pull out the lock lever and put the support leg in the DOWN position, then release the lever and make sure the leg is secured. Remove the bottom pallet.



Pivot Bracket

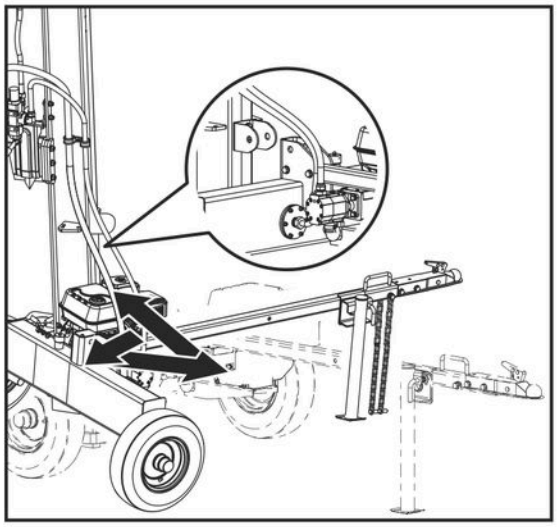
Align the holes in the pivot bracket with the holes on the beam and insert and tighten bolts, spring washers, and flat washers.

> **The beam can be very heavy and dangerous if that it tips over and may cause personal injury.**

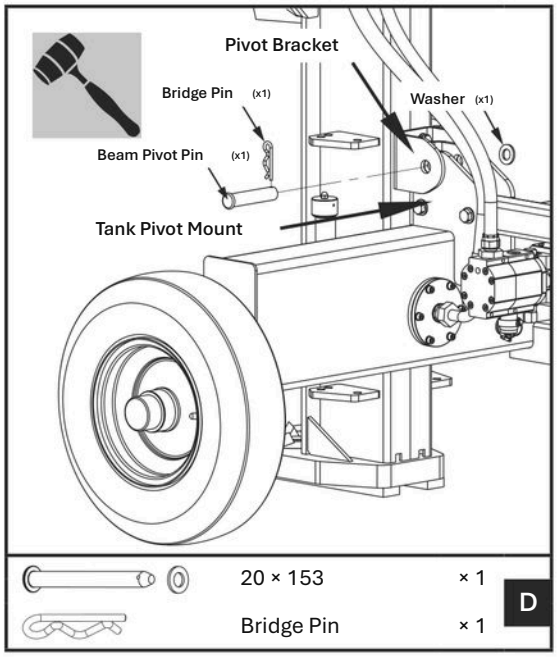


Beam To Reservoir

1. Make sure a helper holds on to the beam to keep it from falling. Reposition the beam and reservoir so the back of the tank is facing the vertical beam as shown in picture.



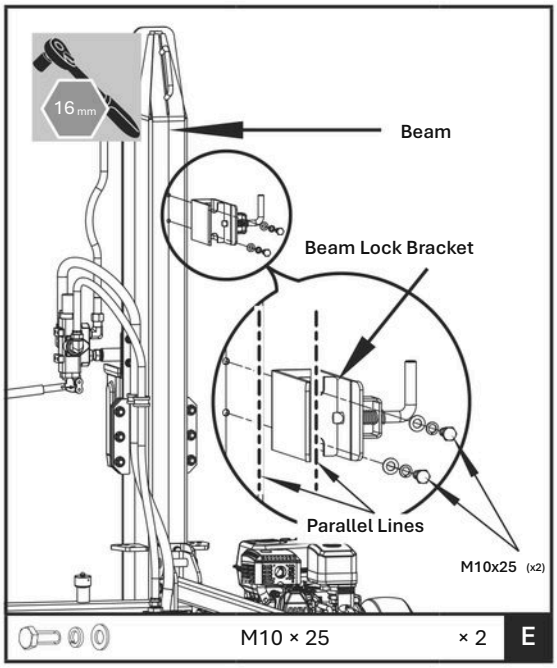
2. Align the pivot bracket on the beam assembly to the pivot mount on the tank weldment and insert the beam pivot pin and washer.



3. Insert the bridge pin through the hole in the beam pivot pin.

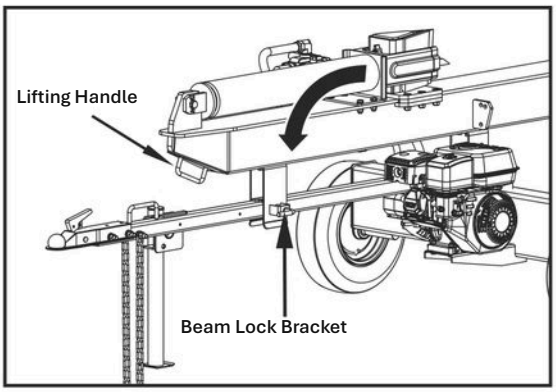
Beam Lock Bracket

1. When mounting the lock latch assembly, make sure the latch rod side of the bracket is on the same side as the engine. Install the beam lock bracket to the beam by using the beam lock M10x25 bolts, spring washer, and flat washers.



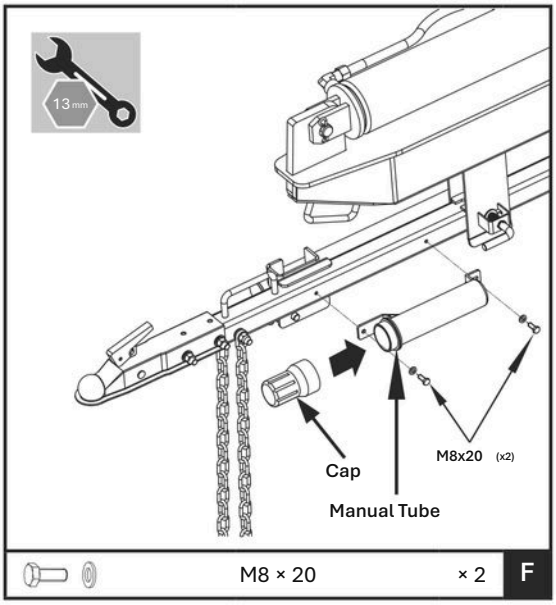
2. Hold the lifting handle and slowly lower the beam. It will lock automatically. Double check to make sure the beam bracket is locked onto the beam.

> ⚠ Do not let the beam suddenly drop. Keep hands and fingers clear of pinch or crush points at all times.



Manual Tube

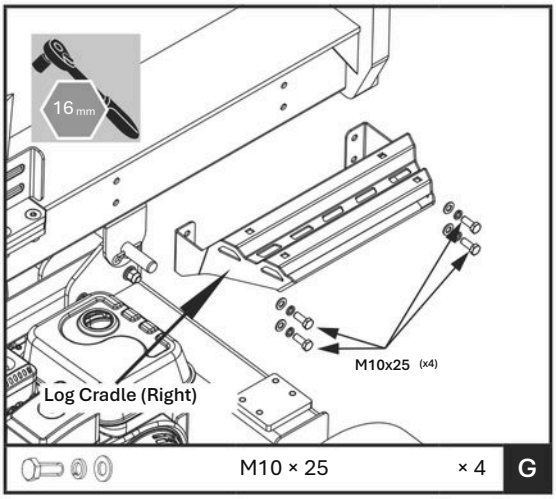
1. Remove the cap from the manual tube. Align the holes in the manual tube with the holes in the tow bar. Insert and tighten bolts and washers.



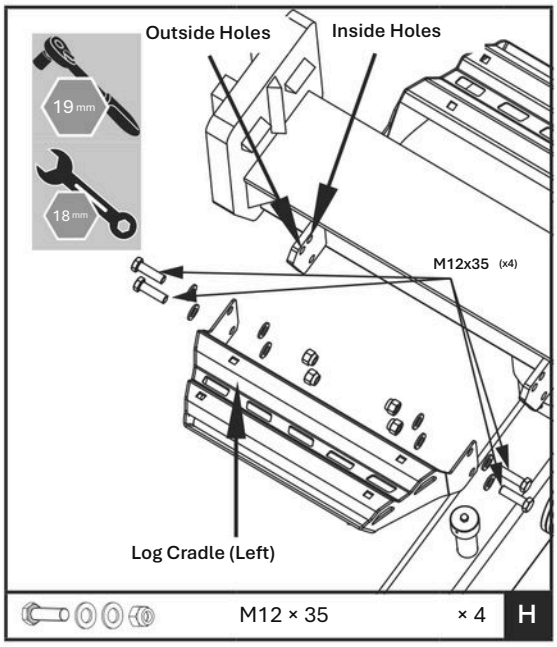
2. Reattach the cap.

Log Cradles

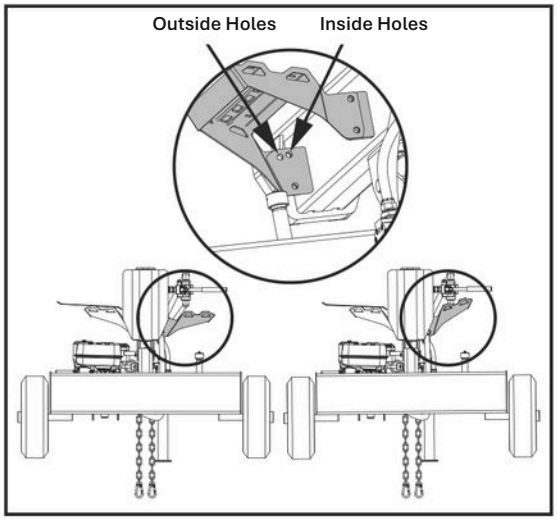
1. Align the holes on the right log cradle to the holes on the beam mounts. Insert the M10x25 bolts, spring washers, flat washers and securely tighten.



2. Align the holes on the left log cradle to the inside and lower holes on the beam mounts. Insert the M12x35 bolts, flat washers, and nuts and securely tighten.



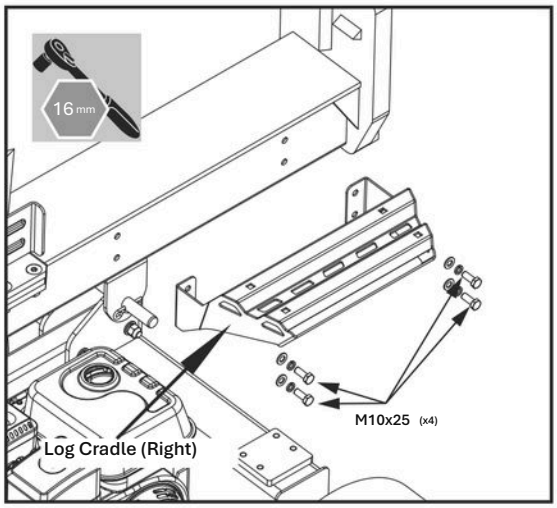
For the assembly of the log cradles, there are two mounting holes to choose from, as shown the inner hole and the outer hole in picture, the adjustment angle is 17.5°.



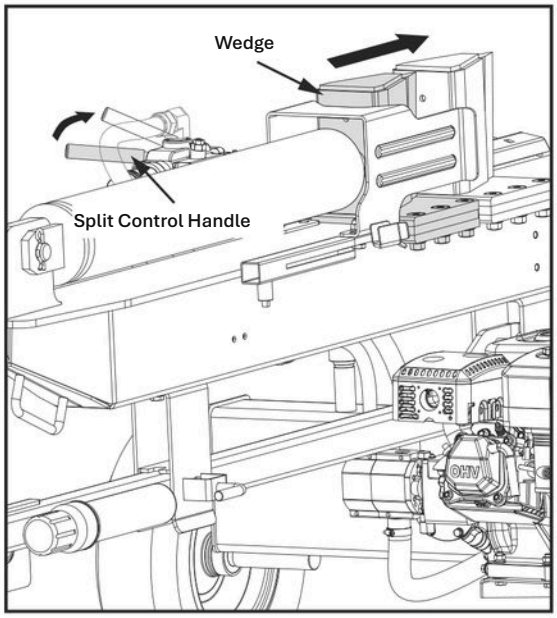
Log Lift Table Attachment (Sold Separately)

Preparation

1. Remove the right log cradle before assembling the log lift table attachment.



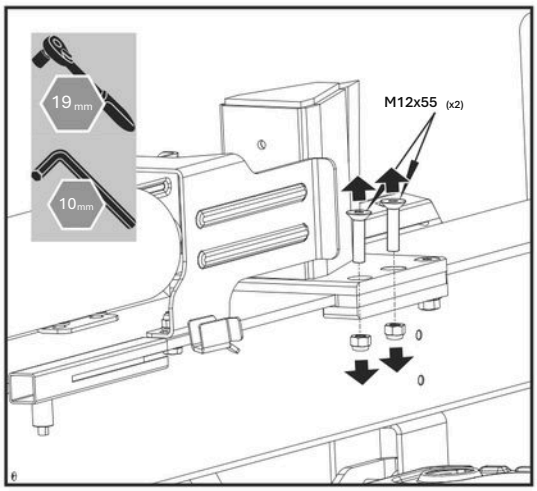
2. Start the engine and operate the control handle to make the wedge move forward 8''.



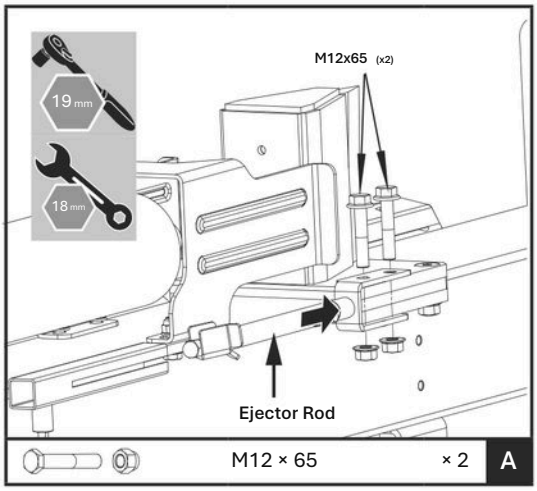
3. Switch off the engine. Make sure the wedge is no longer moving.

Ejector Rod Assembly

1. Remove the two sets of hexagon recessed head screw M12x55 that fix the guide slide plate with the wedge.

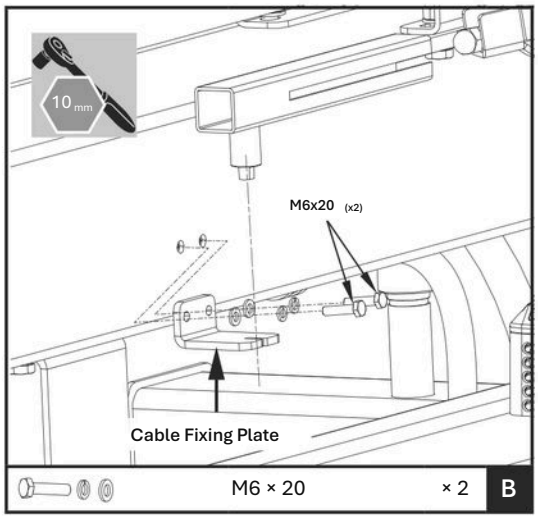


2. Align the holes on the U-shaped plate at the front end of the ejector rod with the holes on the wedge plate and guide slide plate, then fasten them using M12X65 bolts and nuts.

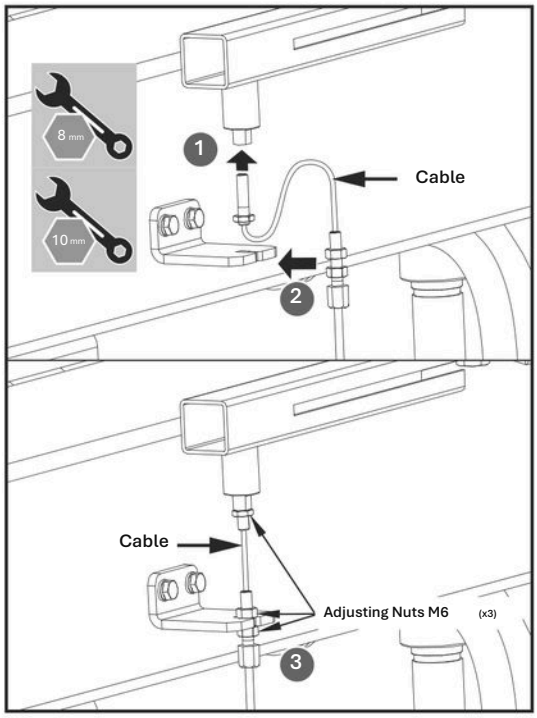


Cable Fixing Plate and Cable Assembly

1. Install the cable fixing plate, paying attention to keeping the fixing plate hole in line with the centre of the upper spring pin.

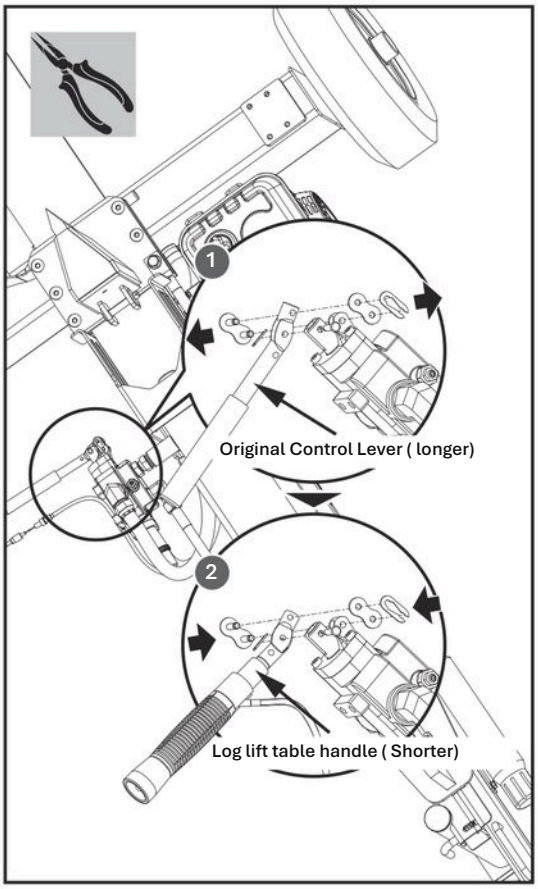


2. Screw the straight end of the cable into the spring pin hole. Pass the cable between the lower two adjusting nuts through the middle hole of the cable fixing plate. By adjusting the three adjusting nuts, make sure the cable between the upper spring pin and the lower cable fixing plate is just straightened.



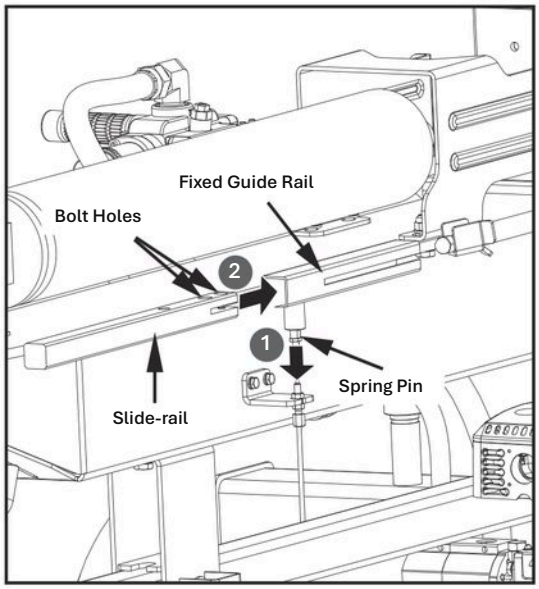
Handle and Cable Assembly

1. Disassemble the original long control lever, assemble the shorter log lift table control lever instead with the same hardware parts.

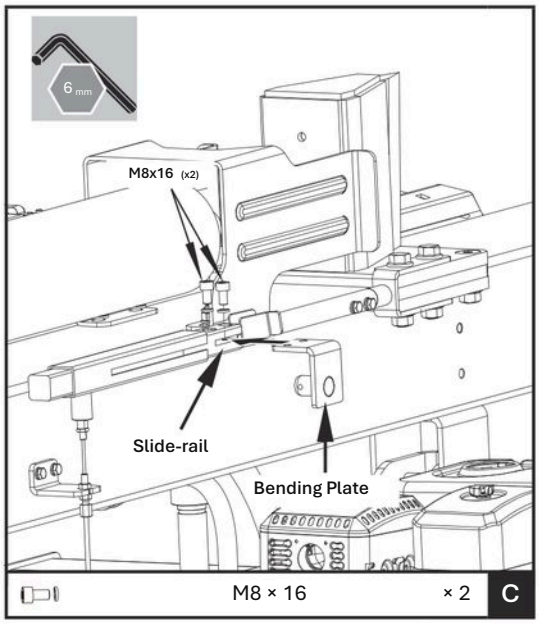


Slide-rail Assembly

1. Use a plier to pull down the spring pin and insert the sliderail through the fixed guide rail until the two bolt holes on the slide-rail are fully exposed.

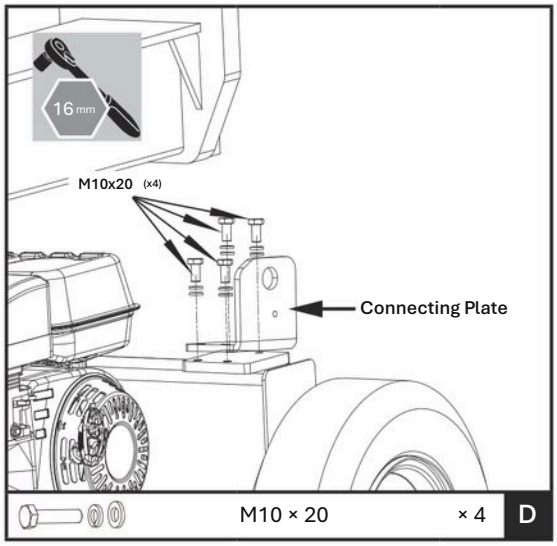


2. Insert the bending plate into the U-shaped narrow slot of the slide-rail, align the two holes on the bending plate with the two holes on the slide-rail, and then tighten them with M8x16 bolts.



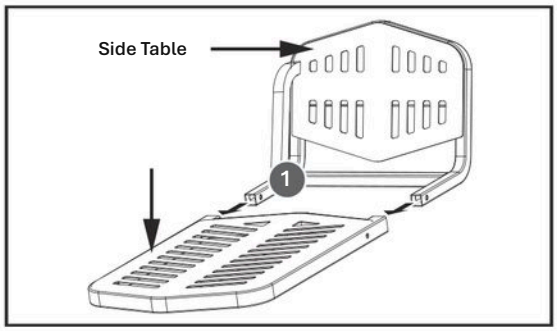
Connecting Plate Assembly

1. Assemble the connecting plate onto the tank, taking care to ensure the correct bending direction of the plate.



Main Table & Side Table Assembly

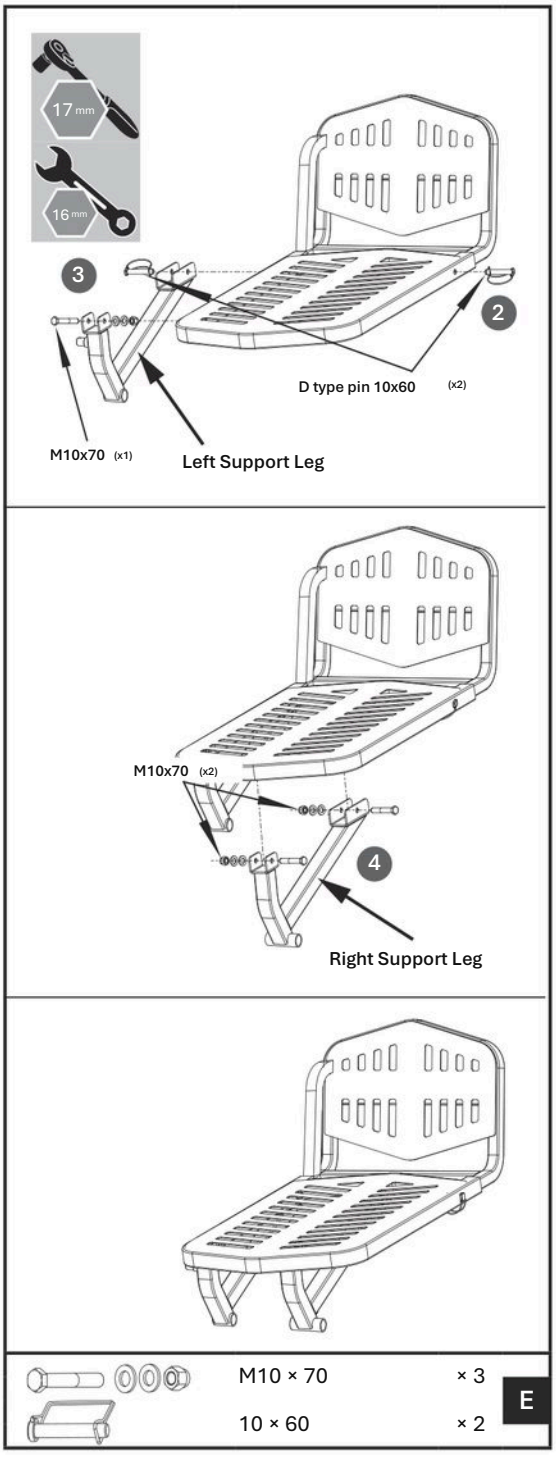
1. Assemble the side table and the main table together to ensure that the hole positions at the connection are aligned.



2. Use a D type pin to insert the right connection hole between the main table and the side table.

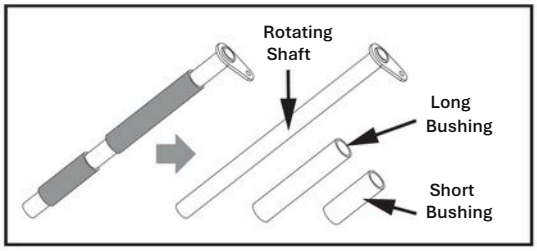
3. Align the front hole of the left support leg with the left connecting hole between the main table and the side table, and fix them with a D type pin. At the same time, align the rear hole of the left leg with the left hole at the bottom of the main table and then fasten with M10x70 long bolts, washers and nuts.

4. Assemble the right support leg with the main table. Tighten with bolts, washers and nuts.

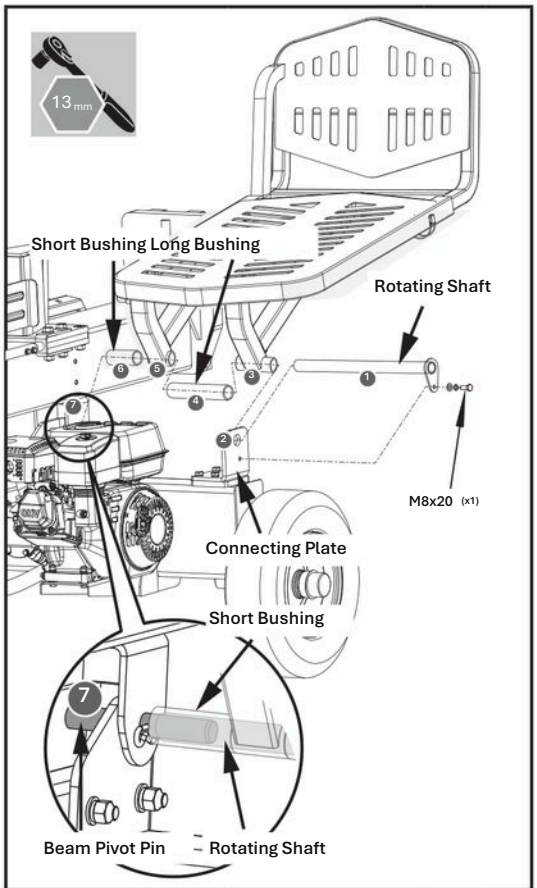


Log Lift Table Attachment Assembly

1. Remove the long bushing and short bushing from the rotating shaft before assembly.



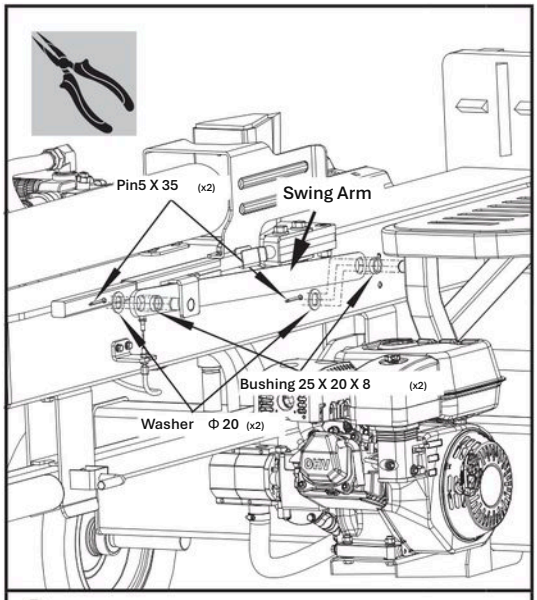
2. Pass the rotating shaft through the connecting plate, right support leg, long bushing, left support leg, and short bushing in sequence, and finally, wrap it outside the beam pivot pin, then fix it on the connecting plate with M8x20 bolts and washers.



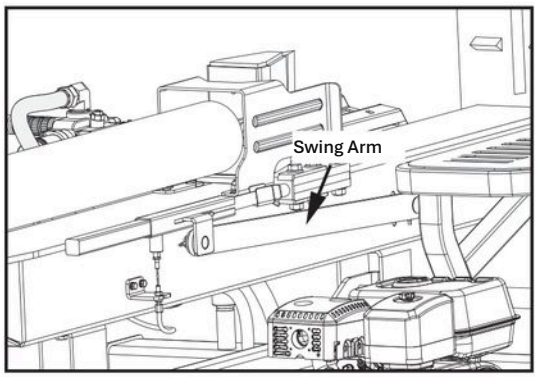
	M8 × 20	× 1	F

Swing Arm Assembly

1. The front hole of the swing arm is fixed to the short shaft on the side of the left leg with bushing, washer and cotter pin. and the rear hole of the swing arm is fixed on the short shaft on the inside of the bending plate. The inner side is fixed with a bushing, a washer and a cotter pin.

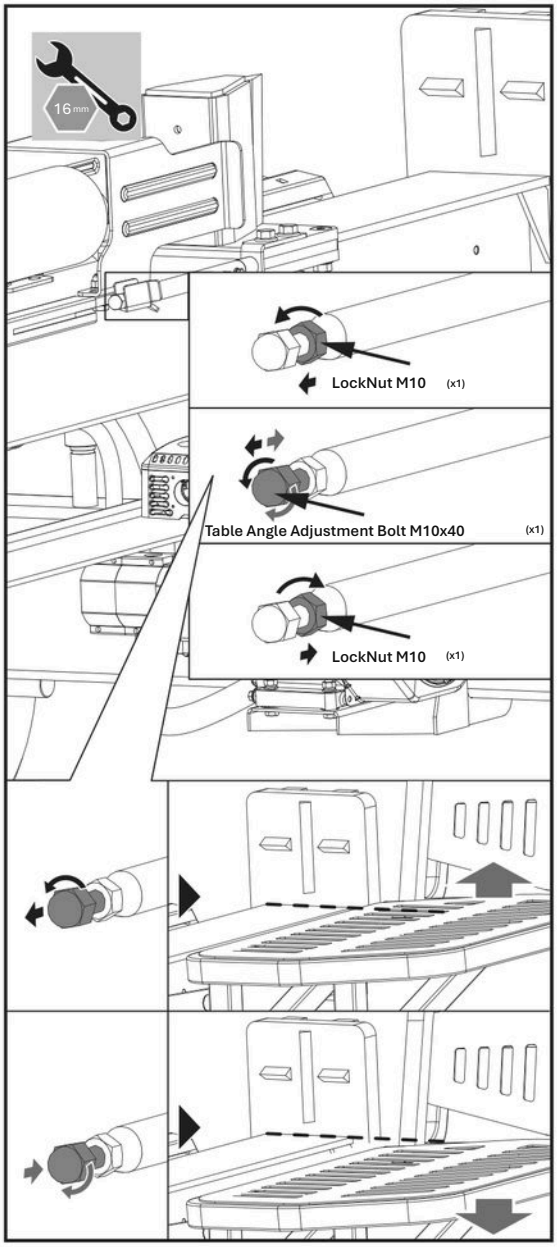


	25 × 20 × 8	× 2	
	Φ20	× 2	G
	5 × 35	× 2	



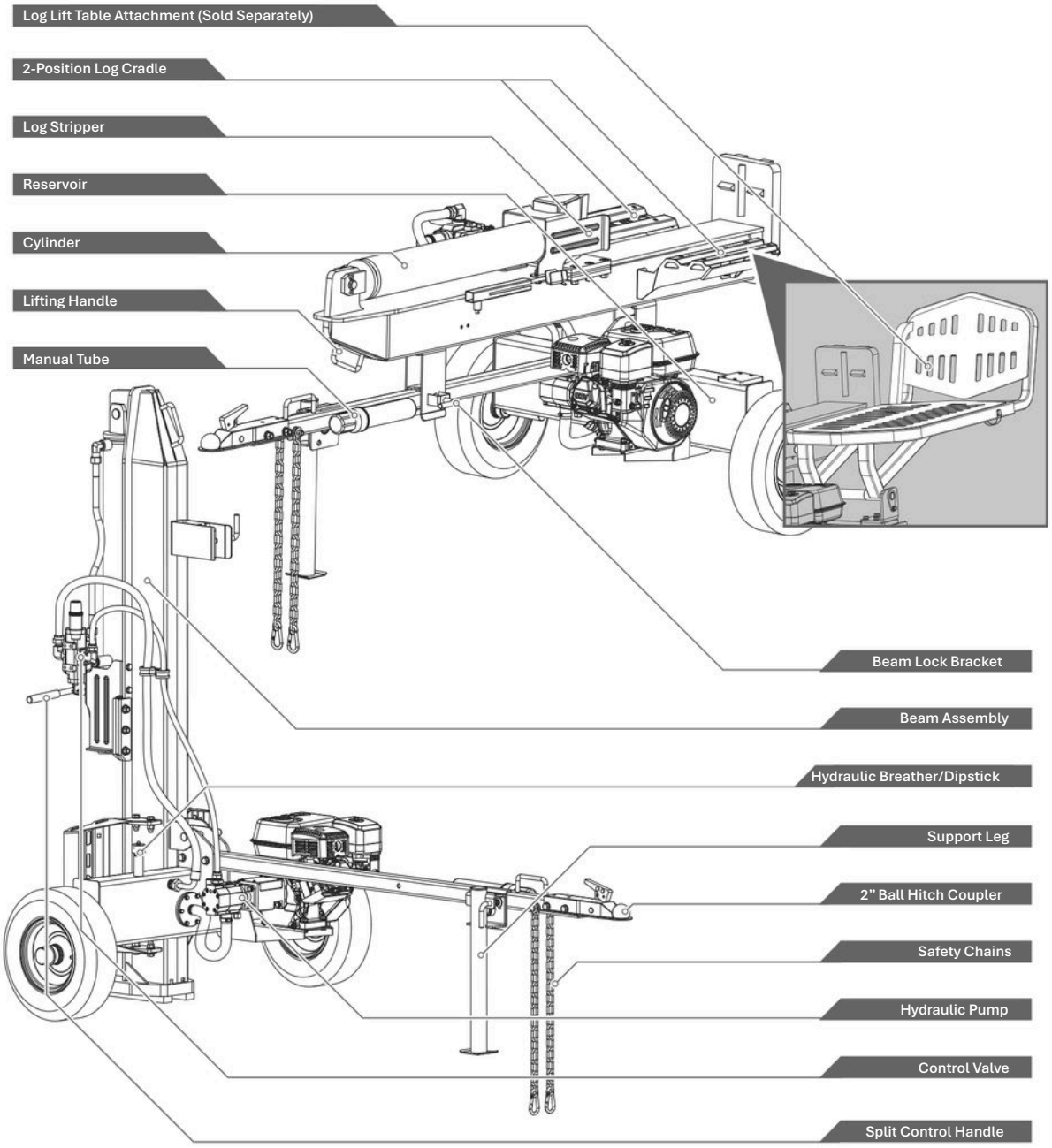
Log Lift Table Attachment Height Adjustment

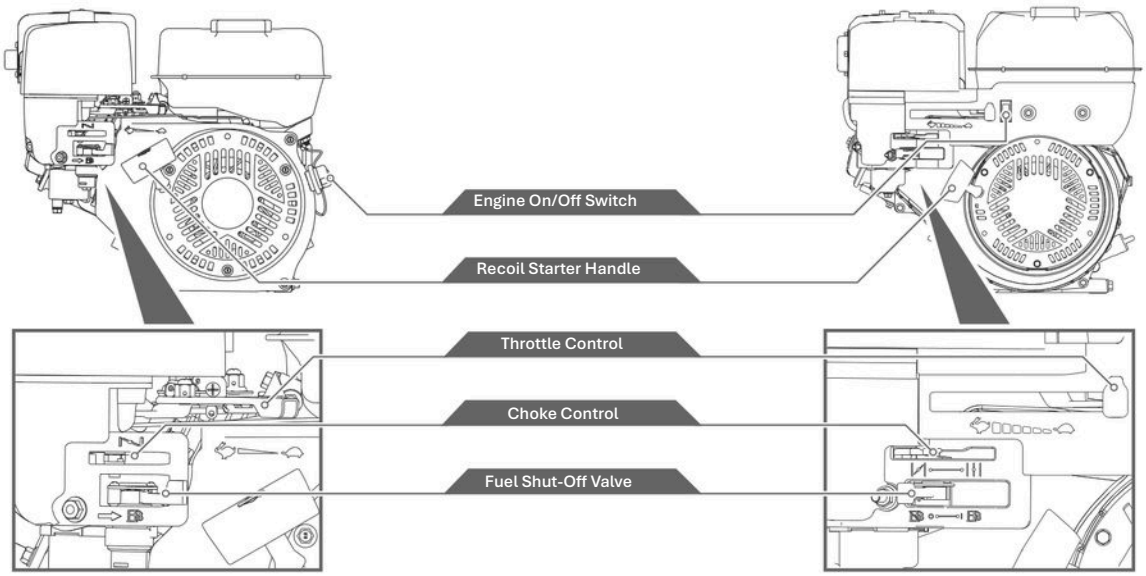
1. Loosen the lock nut, adjust the table angle adjustment bolt backward to increase the length of the ejector rod, and the table tilts upward; On the contrary, adjust the table angle adjustment bolt forward to shorten the length of the ejector rod, and the table will tilt down. When the height of the table and beam is aligned, lock the nut tightly.



KNOW YOUR MACHINE

FEATURES AND CONTROLS





2-Position Log Cradle

The log cradles are designed to catch the log after it is split.

2-position function – The first position is to centre logs on the beam. The second position provides a flat surface and worktable on which to put logs.

Split Control Handle

The control handle is used to move the wedge up and down to split logs. The control handle has three positions: Forward, Neutral, and Reverse. See the "operation" section for instruction.

Manual Tube

Keep manuals safely in the tube.

Beam Lock Bracket

The beam lock bracket is used to secure the beam in the horizontal position.

Lifting Handle

The lifting handle is included for easy transition from horizontal to vertical.

2" Ball Hitch Coupler

The coupler hitch is at the end of the tow bar and attaches to a tow ball for transportation purposes.

Log Stripper

The log stripper is designed to remove any partially split wood from the wedge. This may occur while splitting large diameter wood or freshly cut wood.

Beam Assembly

The U-beam structural design is significantly stronger than a typical I-beam design.

Log Lift Table Attachment (Sold Separately)

The log lift table attachment can be mounted on the beam. Easily lift the log from the ground to a position flush with the beam.

Engine On/Off Switch

The engine switch has two positions. OFF - engine will not start or run. ON - engine will start and run.

Recoil Starter Handle

The handle is used to start the engine.

Fuel Shut-Off Valve

The fuel shut – off has two position. CLOSED ( ) use this position to service, transport, or store the unit.

OPEN ( ) - use this position to run the unit.

Choke Control

The choke control is used to choke the carburettor and assist in starting the engine. The choke control slides between the CHOKE CLOSED and CHOKE OPEN positions.

Throttle Control

The throttle control regulates the speed of the engine and will shut off the engine when it is moved to the STOP position. The throttle control moves between FAST , SLOW , and STOP positions.

OPERATION

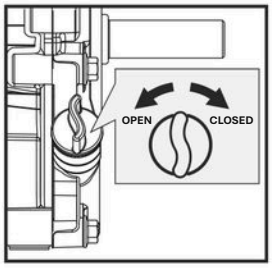
Many accidents occur when more than one person operates the log splitter.

If a helper is assisting in loading logs to be split, never operate the controls until the helper is clear of the area.

The engine is shipped without oil. Do not start the engine before adding oil.

Add Oil To Engine

1. Make sure the log splitter is on a flat, level surface.
2. Remove the oil fill cap/dipstick to add oil.



3. Using a funnel, add oil up to the FULL mark on the dipstick. (See engine manual for oil capacity, oil recommendation, and location of fill cap.)

DO NOT OVERFILL. Check engine oil level daily and add as needed.

Add Petrol To Engine

Petrol is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling petrol .

Fill the fuel tank outdoors, never indoors. Petrol vapours can ignite if they collect inside an enclosure. Explosion can result.

1. The engine must be off and allowed to cool at least two minutes before adding fuel.
2. Remove the fuel filler cap and fill the tank. (See engine manual for fuel capacity, fuel recommendation, and location of fuel cap.)

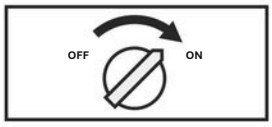
IMPORTANT: DO NOT OVERFILL!

This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapour gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.

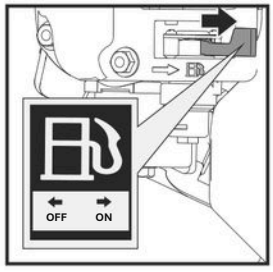
3. Reinstall the fuel cap and tighten. Always clean up spilled fuel.

Starting Engine

1. Make sure the control lever is in the neutral position.
2. Move the engine switch to the ON position.

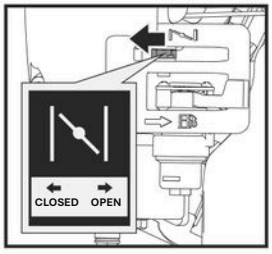


3. Open the fuel shut-off valve.

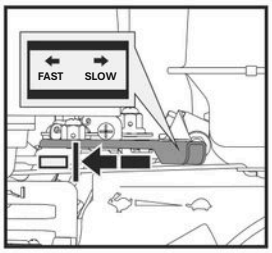


4. Move the choke lever to the CLOSED position.

If the engine is hot, closing the choke is not necessary.



5. Move the throttle lever slightly to the FAST speed.



6. Pull the recoil starter until engine compression has become difficult to pull. Let the recoil return to the home position, then pull quickly to start the engine. Repeat steps as needed. Fully open the choke and set the throttle to the FAST position, before operating the unit.

Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises, or sprains could result.

Stop Engine

Return the cylinder to fully retracted position or home position. Move the Throttle lever to SLOW ( ). Move the engine switch to OFF. Close the fuel shut-off valve ( ).

Sudden stopping at a high speed under a heavy load is not recommended. Engine damage may result.

Split Control Handle

Forward position – Move the lever in this direction to extend the cylinder toward the spinner foot plate. Keep pressure on the lever until the log splits. The lever does not lock in this position. Release as soon as the log is split or the cylinder is fully extended.

Never operate through the relief valve for more than 5 seconds.

The splitter wedge is designed to reach the full extension before contacting the foot plate.

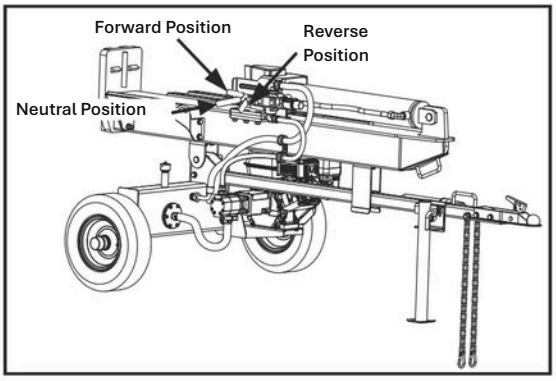
To extend the life of the hydraulic cylinder, avoid "bottoming out" the wedge plate to the foot piece. To conform with industry safety recommendations, the wedge stops 1.5 inches from the end of the stroke.

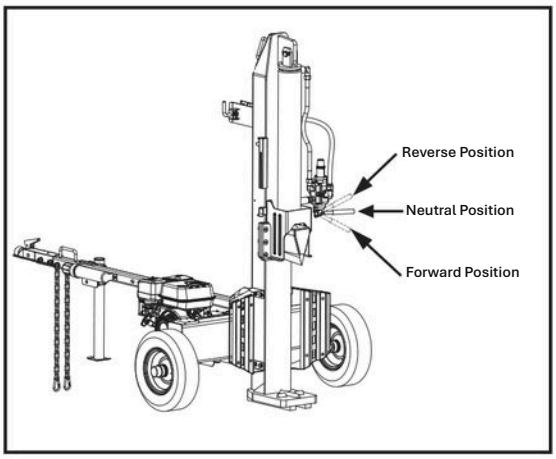
Cracks in logs can close quickly and pinch fingers. Keep fingers away from any cracks that open in partially split logs.

Neutral position – In this position the cylinder does not move even though the engine is running.

Reverse position – Move the lever in this position to retract the cylinder. Push the lever fully in this direction to lock it return mode. The lever will automatically return to the neutral position once the cylinder fully retracts.

Keep hands and fingers away from the splitter wedge and log stripper during cylinder retraction.





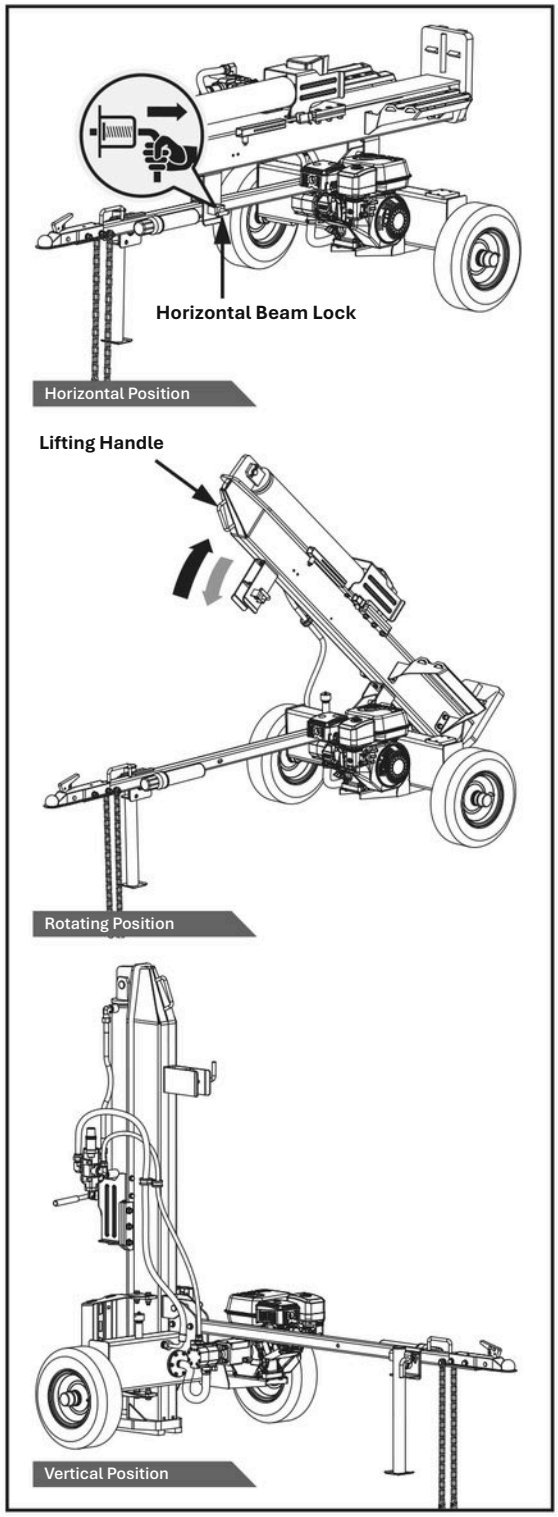
Stuck Log Procedure

If a log does not split completely and becomes stuck on the wedge, never attempt to remove it by modifying the splitter or adding attachments to the splitter.

Move the control lever to the Reverse position and allow the cylinder to retract until the stuck log contacts the stripper plates. Continue to retract the cylinder until the log is dislodged from the wedge.

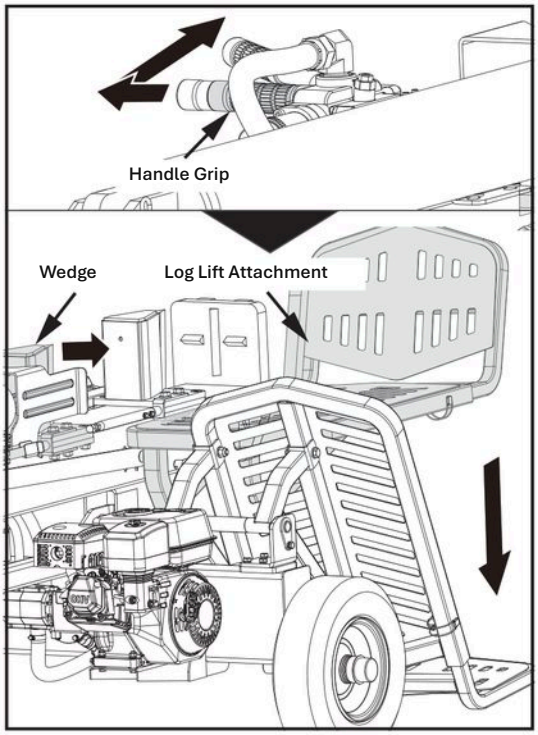
Do not use the unit if the stripper plates are bent or damaged. Bent or damaged stripper plates must be repaired or replaced before use.

Conversion Between Horizontal Splitting Position and Vertical Splitting Position



Log Lift Table Attachment Operation (If equipped)

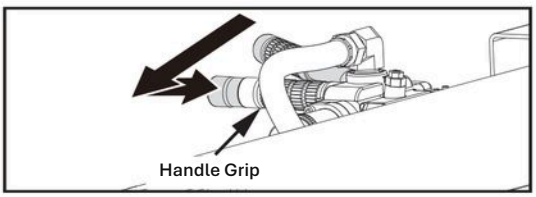
1. When the log lift table attachment is flush with the beam, pull the control lever of the control valve outward while pushing it forward. then the wedge moves forward, and at the same time, the log lift table attachment will go downward. When it lands, release the control lever.

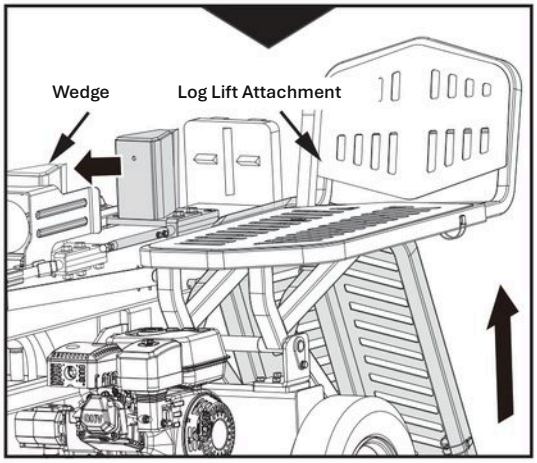


2. Make sure wedge and log lift table stop moving, load the log on the table.



3. Give the control lever a backward thrust, wait until the wedge starts to move, release the control lever, and then the log lift table attachment starts to rise.

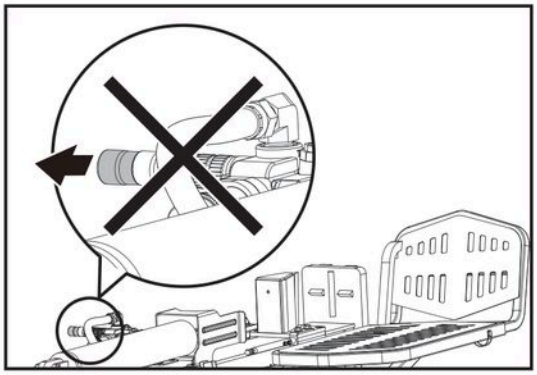




4. Move the log from log table to the beam.

5. Push the control lever forward, the wedge will go forward to split the log. Give the control lever a backward thrust, then release the lever, the wedge will go back to the start position.

When the wedge is extended and not fully return back, it is prohibited to pull the control lever outwards, otherwise the lift log attachment may suddenly drop, causing unexpected risks such as falling logo and so on.



6. Repeat the operate from Step 1-5 to complete the log lifting and splitting again.

TRANSPORTING

Moving By Hands

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

Follow the instructions below for safely moving the log splitter.

1. Make sure the log splitter is locked in the horizontal position with latch rod before moving.

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

2. Turn the fuel shut-off valve to the OFF position. This prevents carburettor flooding and reduces the chance of fuel leakage. Refer to the engine manual for fuel valve location.
3. Lock the support leg in the DOWN position before you move the log splitter.
4. Move the log splitter by hand to desired work site.

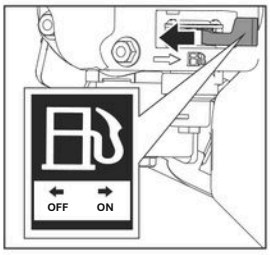
Do not move the log splitter up or down hills by hand.

Never allow anyone to sit or ride on the log splitter.

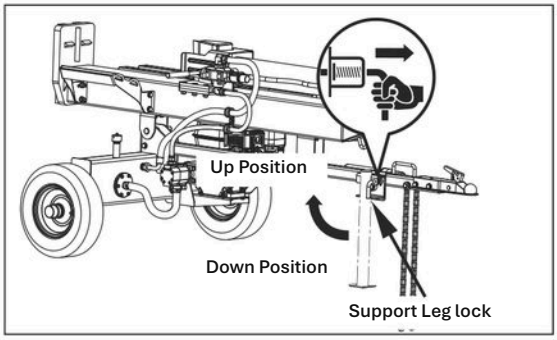
Never transport cargo or wood on the log splitter.

Towing By Vehicle

1. Turn the fuel shut-off valve off. This prevents fuel from flooding the engine.



2. Make sure hitch is in good working order.
3. Check safety chains. Two safety chains must be used while towing. Cross safety chains under the coupler, allowing only enough slack for vehicle turns.
4. Pull out the lock lever and put the support leg in the UP position, then release the lever and make sure the leg is secured.



5. Tow the log splitter carefully to desired work site.

Be aware of the added length of the splitter.

Never tow this log splitter over 25 km/h. Faster speeds may result in loss of control.

Drive slowly and take extra caution when travelling over rough terrain.

Turn off the towing vehicle before leaving the splitter unattended.

7. Lock the support leg in the DOWN position and disconnect from vehicle.

Never operate the log splitter while it is attached to the vehicle.

MAINTENANCE

Inspect and maintain the log splitter before each use. If the log splitter has been used previously, it must be inspected and maintained before each subsequent use.

Always shut off the engine and relieve system pressure before inspecting, cleaning, adjusting, or repairing the splitter. Relieve system pressure by moving the split control lever back and forth several times.

Remove debris from the engine, muffler, and moving parts. Debris on a hot engine can be a fire hazard. Clean debris and chaff from the engine cylinder head, cylinder head fins, blower housing rotating screen, and muffler areas.

Avoid contact with hot muffler.

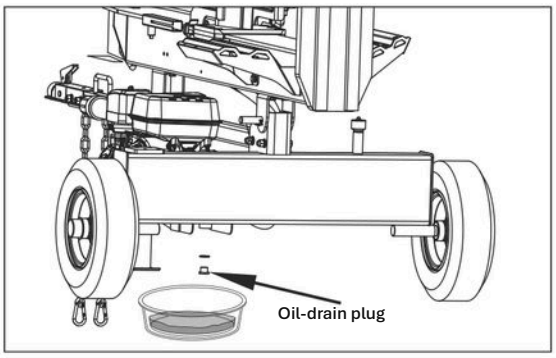
Debris on moving parts can cause excess wear. Clear debris from the slide beam, wedge, and end plate.

Oil Draining

Use a drain pan to aid in the removal of all used oil and particles.

Remove oil drain plug to drain oil from the hydraulic transmission system. Examine oil for metal chips as a precaution to future problems.

After oil has been completely drained from the machine, reinstall drain plug.



Add Hydraulic Oil To Oil Tank

1. Make sure the log splitter is on a flat, level surface.
2. Remove the oil dipstick from the oil tank.

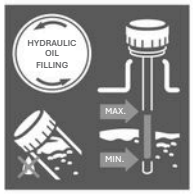
Never remove the hydraulic oil dipstick when the engine is running or hot. Hot oil can escape causing severe burns. Allow the log splitter to cool completely before removing the hydraulic oil dipstick.

3. The recommended hydraulic oil type:

   10W AW32

   ASLE H-150

   ISO 32



4. Hydraulic oil level will read half way to low on the dipstick. There is always hydraulic oil in the cylinder, which will not read on the dipstick.

Completely install the dipstick when checking oil level.

5. Start the engine and use the control valve handle to extend and retract the wedge five times to remove air from the high pressure lines.
6. With the wedge retracted and engine off, check the oil level again. Fill if necessary.
7. Cycle the cylinder again until it has a constant speed. This indicates that all air has been expelled.

STORAGE

Follow the instructions below for storing your log splitter between uses.

1. Retract the wedge completely to keep the rod protected from corrosion.
2. Allow the machine to cool 5 minutes before storing.
3. Clear the debris from the beam, wedge, and end plate. Use a damp cloth to clear exterior surfaces of the engine and log splitter. Use a soft bristle brush to remove excess dirt and oil. Use an air compressor (25 PSI) to clear dirt and small debris. Wipe the beam, wedge, and all metal parts with an oil rag to prevent corrosion.

> **Never spray the engine or log splitter with a pressure washer. Water can contaminate the fuel system and can enter the engine and damage the engine.**

4. Refer to the engine manual for proper engine storage instructions.

> **Petrol can become stale when stored over 30 days. Stale fuel can cause acid and gum deposits that form in the fuel system or on carburettor parts. For engine fuel that is stored less than 30 days, add a fuel stabiliser to keep the fuel fresh. Turn the fuel valve lever to the off position. If fuel is stored over 30 days, then drain the fuel tank as stated in the engine manual.**

> **Always drain fuel from the tank in an outdoor, well-ventilated area.**
>
> **Stay away from sources of heat, flame, or sparks while handling fuel.**
>
> **Clean up fuel spills immediately.**

5. Store the log splitter in a location away from corrosive materials, sources of heat, open flames, sparks, or pilot lights.

> **Never store the log splitter inside where there is a source of heat or an open flame, spark, or pilot light, such as a water heater, space heater, furnace, clothes dryer, or other gas appliance. EVEN IF the log splitter's fuel tank is empty, residual gasoline vapours could ignite.**
>
> **Never store the log splitter near fertiliser or any other corrosive material.**

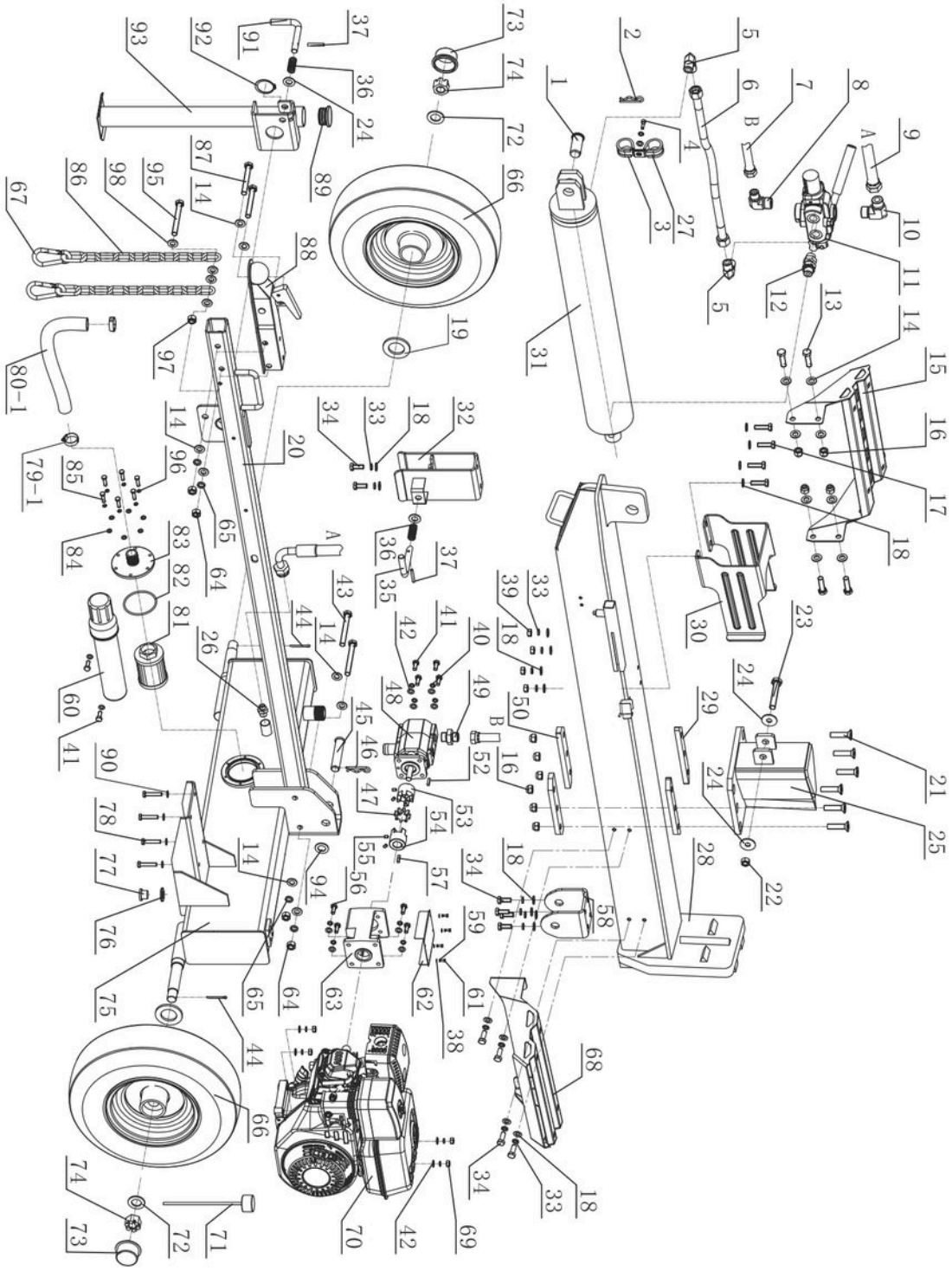
6. Store petrol in a cool, dry place in a tightly sealed container.

> **Petrol vapours can ignite if they collect inside an enclosure and explosion can result.**

TROUBLESHOOTING

Problem	Cause	Remedy
Wedge movement is slow or erratic	1. Air in the hydraulic oil system 2. Debris lodged in beam guides 3. Low hydraulic oil 4. Clogged hydraulic filer	1. Purge air by extending and retracting the log pusher several times until motion is smooth 2. Clear debris from beam 3. Check oil level and add as needed 4. Replace hydraulic filter
Oil leak from cylinder	1. Faulty cylinder rod seal 2. Scored or bent cylinder rod 3. Loose hydraulic fitting 4. Faulty combination washer seal on cylinder hydraulic fitting	1. Contact customer service 2. Contact customer service 3. Tighten hydraulic fitting 4. Contact customer service
Oil leak from hose connection	Loose hose clamp or hydraulic fitting	Tighten hose clamp or hydraulic fitting
Wedge will not extend or retract	1. Faulty control valve 2. Faulty hydraulic pump 3. Low hydraulic oil	1. Contact customer service 2. Contact customer service 3. Check oil level and add as needed
Wedge does not auto-return	1. Low hydraulic oil 2. Faulty control valve	1. Check oil level and add as needed 2. Contact customer service
Excessive bouncing while towing	Underinflated	Inflate tyres to proper pressure
Control valve handle does not return to neutral when released from forward position	1. Hydraulic oil too cold 2. Hydraulic oil too thick 3. Hydraulic oil contaminated 4. Faulty control valve	1. Warm up engine 2. Replace hydraulic fluid 3. Replace hydraulic fluid 4. Contact customer service
Engine will not start	1. Engine switch in OFF position 2. Fuel shut-off valve in OFF position 3. Fuel tank empty 4. Spark plug disconnected 5. Faulty spark plug 6. Choke lever in wrong position 7. Faulty engine 8. Not enough oil in engine	1. Move switch to ON position 2. Move valve to ON position 3. Fill fuel tank with fuel 4. Connect spark plug 5. Replace spark plug 6. Adjust choke lever position 7. Contact customer service 8. Add the recommended oil amount 0.16 gallons

PARTS SCHEDULE

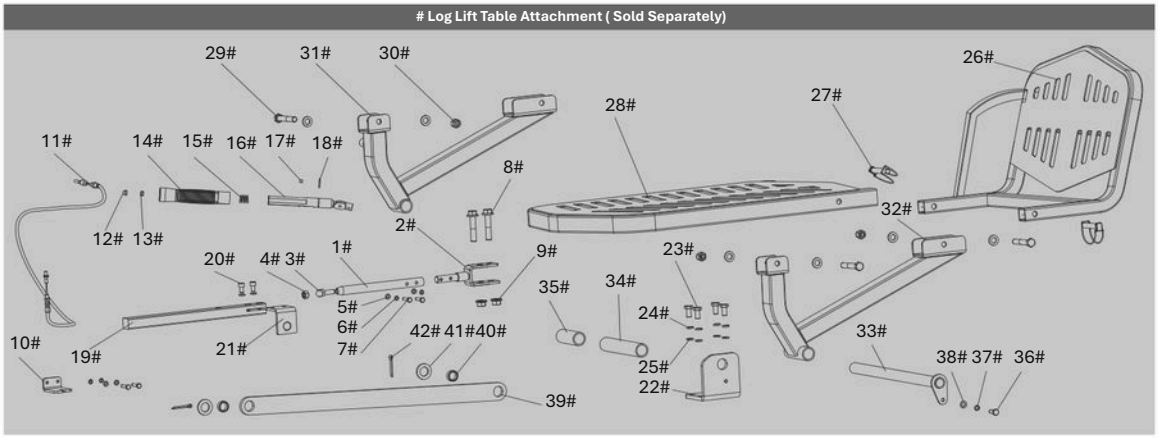


PARTS LIST

No.	Description	Q'ty
1	Pin 35x59	1
2	Bridge Pin	1
3	Hose Clamp 40	1
4	Hex Socket Head Cap Screw M6x20	1
5	Right-Angle Fitting	2
6	Welded Hose	1
7	High Pressure Supply Hose	1
8	Right-Angle Fitting 1	1
9	Low Pressure Return Hose	1
10	Right-Angle Fitting 2	1
11	Control Valve	1
12	Straight Fitting	1
13	Bolt M12x35	4
14	Flat Washer 12	16
15	Log Cradle-Left	1
16	Lock Nut M12	10
17	Bolt M10x35	4
18	Washer 10	18
19	Anti-Dust Washer	2
20	Tow Bar	1
21	Hexagon Recessed Head Screw M12x50	6
22	Lock Nut M14	1
23	Bolt 14x90	1
24	Washer 14	4
25	Wedge	1
26	Oil Filter threaded connector	1
27	Hose Clamp 45	1
28	Beam Weldment	1
29	Guide Slide	2
30	Log Stripper Weldment	1
31	Cylinder	1
32	Beam Lock Bracket	1
33	Spring Washer 10	14
34	Bolt M10x25	10
35	Latch Rod	1
36	Pressure Spring	2
37	Pin 6x40	2
38	Washer 4	4
39	Nut M10	4
40	Spring Washer 8	12

No.	Description	Q'ty
41	Bolt M8x20	6
42	Washer 8	14
43	Bolt M12x90	2
44	Cotter Pin 4x50	2
45	Beam Pivot Pin 20x153	1
46	Bridge Pin	1
47	Elastic Spider Block	1
48	Gear Pump	1
49	Outlet Connector of Pump	1
50	Retainer Slide	2
51	Bracket Weldment	1
52	Key 3x25	1
53	Gear Pump Connector Left	1
54	Gear Pump Connector Right	1
55	Bolt M6x10	4
56	Bolt 5/16-24UNF	4
57	Key 3/16x30	1
58	Pivot Bracket	1
59	Spring Washer 4	4
60	Manual Tube	1
61	Screw M4x8	4
62	Cover of Pump Bracket	1
63	Pump Bracket	1
64	Nut M12	4
65	Spring Washer 12	4
66	Tyre	2
67	Safety Clasp	2
68	Log Cradle-Right	1
69	Nut M8	4
70	Engine	1
71	Dipstick	1
72	Wheel Washer 22	2
73	Dust Cap	2
74	Axle Nut M22	2
75	Tank Assembly	1
76	Washer 20	1
77	Oil Plug	1
78	Bolt M8x40	4
79-1	Clamp 25-38	2
80-1	Suction Hose	1

No.	Description	Q'ty
81	Return Oil Filter	1
82	O-Ring D81x3.1	1
83	Flange of Filter	1
84	Washer 6	7
85	Bolt M6x16	6
86	Safety Chain	2
87	Bolt M12x80	2
88	2" Ball Coupler Hitch	1
89	Pipe Plug	1
90	Washer 8	4
91	Latch Rod	1
92	Circlip 34	1
93	Support Leg Weldment	1
94	Flat Washer 20	1
95	Bolt M10x85	1
96	Washer 6	7
97	Nut M10	1
98	Washer 10	4



LOG LIFT TABLE ATTACHMENT (SOLD SEPARATELY) PARTS LIST

No.	Description	Q'ty
1#	Ejector Rod	1
2#	U-shaped Plate	1
3#	Round Head Bolt M10x40	1
4#	Nut M10	1
5#	Flat Washer 6	4
6#	Spring Washer 6	4
7#	Bolt M6X20	4
8#	Bolt M12X65	2
9#	Nut M12	2
10#	Cable Fixing Plate	1
11#	Cable	1
12#	Round head Nut M6	1
13#	Nut M6	1
14#	Handle Grip	1
15#	Spring	1
16#	Handle	1
17#	Hexagon Socket Set Screw M6x10	1
18#	Circlips 20	1
19#	Slide-rail	1
20#	Hex Socket Head Cap Screw M8x16	2
21#	Bending Plate	1

No.	Description	Q'ty
22#	Connecting Plate	1
23#	Bolt M10x20	4
24#	Spring Washer 10	10
25#	Washer 10	4
26#	Log Lift Table Attachment-side Table	1
27#	D type Pin 10x60	2
28#	Log Lift Table Attachment-main Table	1
29#	Bolt M10X70	3
30#	Nut M10	3
31#	Support Leg-left	1
32#	Support Leg-right	1
33#	Rotating Shaft	1
34#	Long Bushing	1
35#	Short Bushing	1
36#	Bolt M8x20	1
37#	Spring Washer 8	3
38#	Flat Washer 8	1
39#	Swing Arm	1
40#	Bushing 25x20x8	2
41#	Flat Washer 20	2
42#	Cotter Pin 5x35	2

BULLMAX LOG SPLITTER WARRANTY

The Bullmax log splitter has a 3-year Honda engine warranty and a Bullmax 1-year log splitter parts warranty. Bullmax undertakes at its option to repair and replace free of charge each product or part thereof on the following conditions.
The warranty is valid from the date of purchase and when the machine is used in accordance with the information supplied in the instruction manual. (Please keep proof of purchase)

The Bullmax warranty does not cover the following

- Normal wear and tear
- Commercial use
- Damage caused due to failing to follow the safety and operating instructions, which includes due to lack of maintenance, cleaning and care of the log splitter.
- Parts that may need to be replaced due to normal wear and tear and lack of maintenance.
- Incorrect usage and negligence which causes damages to the machine.
- Altering or modifying the log splitter.
- Use of unsuitable parts used for repairs that were not conducted by an authorised Bullmax repairer.
- Using the log splitter in an unsuitable environment and not for the purpose it was intended for.
- Unsuitable transportation of the log splitter, involved in an accident or not securely packaged to avoid damage in transit or storage.

How to make a claim

If a fault has occurred within the warranty period the consumer can make a claim, by adhering to the following.

- Stop using the log splitter immediately to avoid further damage to the machine.
- Contact Bullmax at info@bullmax.com.au or alternatively by returning the log splitter to the place of purchase and contact can be made.

Our goods come with guarantees that cannot be excluded under Australian Consumer Law. You are entitled to have the goods repaired, replaced or a refund for a major failure.

NOTES

Bullmax Pty Ltd. 917 Garland Avenue, Lavington NSW 2641
www.bullmax.com.au | 1300 797 675

Bullmax
TOUGH TOOLS & EQUIPMENT

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Bullmax SKU 100312 (BMLS-H32T)