

Champion®



LOG SPLITTER

MODEL NO: LOGBUSTER 8

PART NO: 3402042

OPERATION & MAINTENANCE INSTRUCTIONS



LS0514

INTRODUCTION

Thank you for purchasing this CLARKE Log Splitter.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

GENERAL SAFETY RULES



WARNING: READ ALL INSTRUCTIONS. FAILURE TO FOLLOW ALL INSTRUCTIONS LISTED BELOW MAY RESULT IN SERIOUS INJURY. SAVE THESE INSTRUCTIONS.

WORK AREA

1. **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
2. **Do not operate log splitters in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Log splitters create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating the log splitter.** Distractions can cause you to lose control.
4. **The surface must be perfectly level to prevent the machine from moving during operation.**

PERSONAL SAFETY

1. **Stay alert, watch what you are doing and use common sense when operating a log splitter. Do not use the log splitter while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating log splitters may result in serious personal injury.
2. **Use safety equipment. Always wear eye protection.** Safety equipment such as non-skid safety shoes, close fitting clothing and suitable work gloves eye and ear protection should always be used.
3. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the log splitter in unexpected situations.
4. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

USAGE AND CARE

1. **Do not force the log splitter.** It will do the job better and safer at the rate for which it was designed.
2. **Shut off the engine before making any adjustments, changing accessories, or storing the log splitter.**
3. **Store the log splitter out of the reach of children and do not allow persons unfamiliar with log splitters or these instructions to operate the log splitter.** Log splitters are dangerous in the hands of untrained users.
4. **Maintain the log splitter. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the log splitters operation. If damaged, have the log splitter repaired before use.** Many accidents are caused by poorly maintained equipment.

5. **Keep cutting edges sharp and clean.** Properly maintained cutting edges are less likely to bind.

SERVICE

1. **Have your log splitter serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the log splitter is maintained.

ADDITIONAL SAFETY RULES FOR LOG SPLITTERS

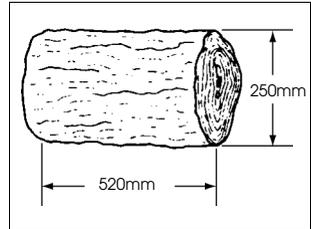
Extra special care is required when using this powerful tool to safeguard yourself and that of others around you.

1. Never tamper with the log splitter or attempt to operate the machine without covers fitted.
2. The operator must have read and understood this manual and the safe operation of this log splitter before use.
3. Do not allow split logs to accumulate, always clean up as you work, accumulated split logs and wood chips can create a hazardous work environment.
4. The operator must operate the machines controls with both hands without using other makeshift systems, i.e. wedging control levers down etc.
5. The machine must always be used by one operator only. Nobody must be allowed to use the log splitter unless they have read the instruction manual thoroughly and have been instructed in its use. The machine must be used by adults only. Check that the logs to be split are free from nails or wire, which may fly up. The ends of the logs must be cut square. Branches must be cut off flush with the trunk.
6. Never attempt to split two logs at once; one may be ejected with possibly serious damage.
7. Split wood in the direction of the grain. Do not attempt to split a piece of wood across the grain as this could seriously damage the machine.
8. If the log moves away from the blade, retract the ram and rotate the log through 90°
9. Do not attempt to load the log whilst the log pusher is in motion.
10. Keep your hands well away from any splits and cracks which open in the log.
11. Do not force the blade by pushing the log on the upper part, as this can cause the blade to break or damage the body of the machine. Always set the log on the guides.
12. Never leave the machine unattended while it is running.
13. Never use the machine whilst under the influence of alcohol, drugs, medicines, or when you are tired. A clear mind is essential for safety.
14. Never request the assistance of another person to help you remove a jammed log.
15. Never use the log splitter if it is not in perfect order or if it needs servicing.
16. Before starting work, check correct functioning of all the safety devices and check for soundness of welded joints, securing nuts & bolts.

SIZE OF THE LOGS BEING SPLIT

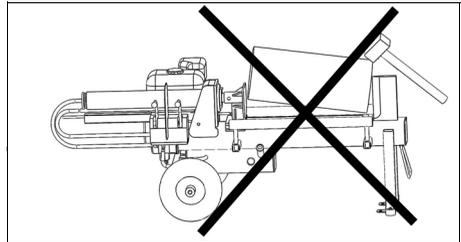
The image on the right shows the maximum log size that can be split.

- It is important not to attempt to split a log for longer than 5 seconds as the pump may be damaged by the oil overheating. This could occur when the wood being split is excessively fibrous, knotty or wet, green wood.



NOTE: The diameter of the log is indicative: i.e. A small log can be difficult to split if it has knots or a particularly tough fibre.

- It is therefore better to stop and rotate the log by 90° to see whether it can be split in a different plane.
- Not being able to split the log within 5 seconds, indicates that its hardness exceeds the capacity of the machine and it should therefore be discarded so as not to cause damage/injury.
- Do not try to hit any jammed logs off of the log splitter, this may damage the machine or may cause the log to fly up and cause an accident.



MOVING THE LOG SPLITTER



CAUTION: BEFORE MOVING THE LOG SPLITTER, MAKE SURE THE BLEED SCREW IS TIGHTENED TO AVOID OIL LEAKING.

- Lift the front of the log splitter by the handle and move the log splitter around the working area.

SAFETY SYMBOLS



**READ
INSTRUCTIONS
BEFORE USE**



**WEAR
SAFETY
GLASSES**



**WEAR
PROTECTIVE
GLOVES**



**WEAR
PROTECTIVE
BOOTS**



**DANGER OF CUTTING
OR CRUSHING OF
THE HAND**



**ALWAYS PAY ATTENTION
TO THE MOVEMENT OF
THE MACHINE**



PROTECT YOUR HANDS



**THIS MACHINE MUST ONLY BE
OPERATED BY ONE PERSON**



**INSPECT THE LOG BUSTER BEFORE
USE FOR ANY DAMAGE ETC**

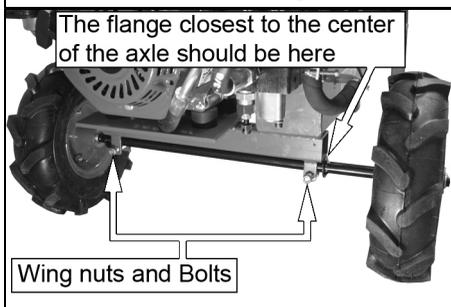
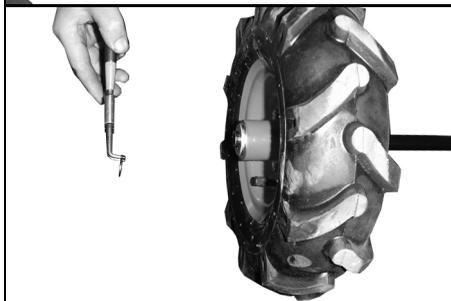
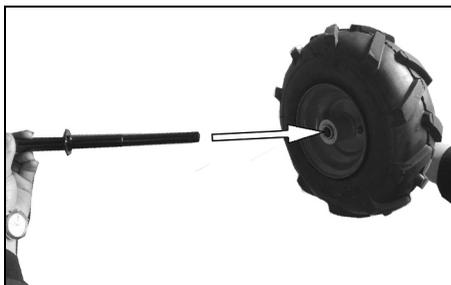


PROTECT THE ENVIROMENT

ASSEMBLY

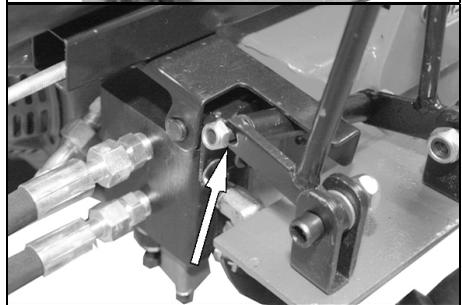
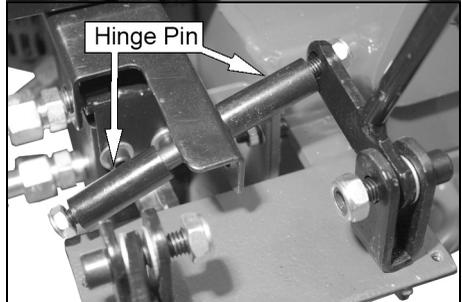
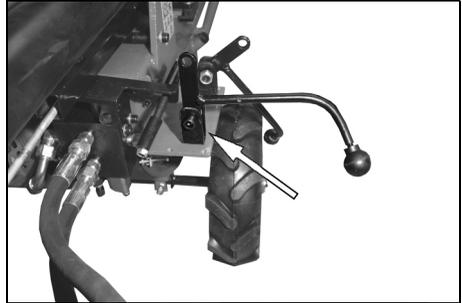
FITTING THE WHEELS

1. Slide the wheel onto the end of the axle.
 - Make sure the air valve is on the outside of the wheel assembly.
2. Secure the wheel using the circlip supplied.
3. Repeat with the other wheel to the other end of the axle and secure with the remaining circlip.
4. Slide the axle into position shown.
 - The logbuster is heavy, you may need help lifting it at this stage.
5. Secure using the wing nuts and bolts.

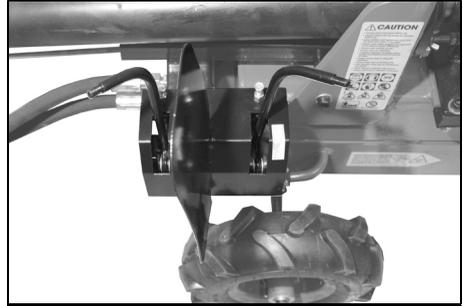


FITTING THE CONTROL PANEL

1. Fit the right control lever into position using the bolt supplied.
 - The bolt should pass through the lower hole on the control lever.
2. Fit the left control lever in place using the bolt supplied.
 - The bolt should pass through the lower hole on the control lever.
3. Remove the right hand nut from the hinge pin and attach the right control lever as shown.
4. Replace the nut.
5. Remove the left hand nut from the hinge pin and attach the right control lever as shown.
6. Replace the nut.
7. Tighten all nuts and bolts.



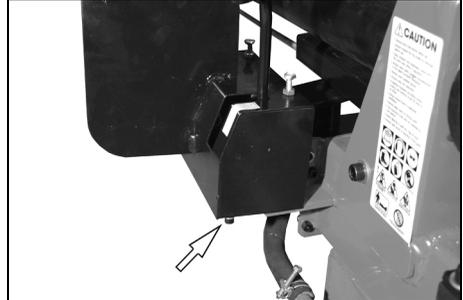
8. Unscrew and remove the knobs from the levers.
9. Slide the levers through the openings in the control housing.



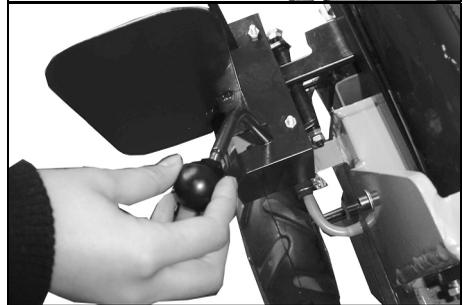
10. Lower the control housing into place.

- The control housing should hook under the main frame.

11. Lock the control housing in place from below using the three small hex screws supplied.

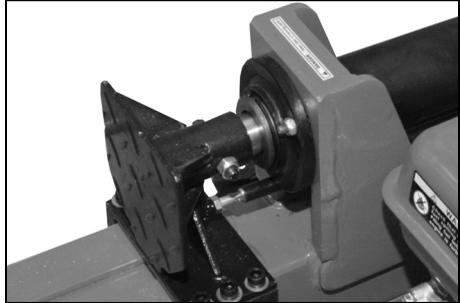
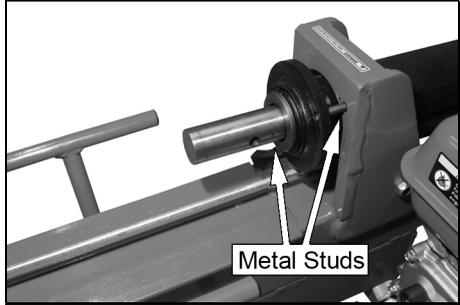
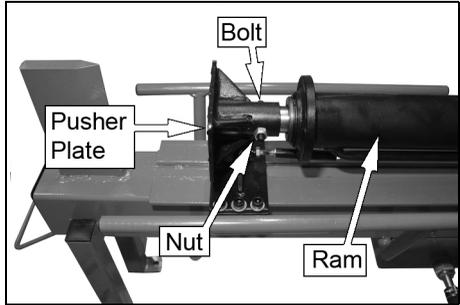


12. Screw the knobs back onto the control levers.



MOUNTING THE RAM

1. Remove the nut/bolt and slide the pusher plate away from the ram.
2. Remove the nuts that are on the metal studs.
3. Slide the ram back over the metal studs.
4. Secure the ram by replacing the nuts securely.
5. Replace the pusher plate and make sure all nuts and bolts are secure.



BEFORE USE



WARNING: PLACE THE LOG SPLITTER ON LEVEL GROUND WITH THE ENGINE SWITCHED OFF.

WARNING: TAKE CARE NOT TO TOUCH ANY HOT PARTS OF THE ENGINE WHEN CHECKING THE OIL LEVEL.

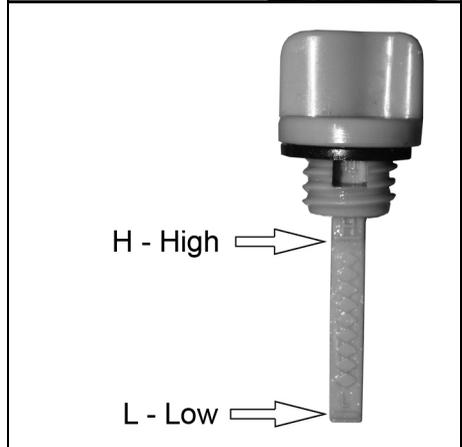
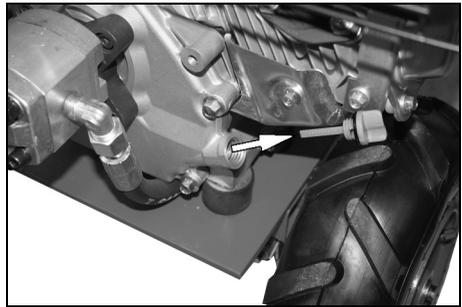
IMPORTANT: The engine is supplied without any oil in it and must be filled to the correct level before use, see below.



CAUTION: RUNNING THE ENGINE WITH INSUFFICIENT OIL WILL CAUSE ENGINE DAMAGE.

ENGINE OIL

1. Turn the oil filler cap anticlockwise and remove it from the engine, wipe the integral dipstick with a clean cloth.
2. Insert the oil filler cap back into place and then remove it again.
3. If the oil reads low on the dipstick, add oil to the reservoir (Max 0.6 L).
 - We recommend the use of SAE10W-30 oil which is available from your Clarke dealer.
 - Do not overfill the oil reservoir.
4. Replace the oil filler cap.

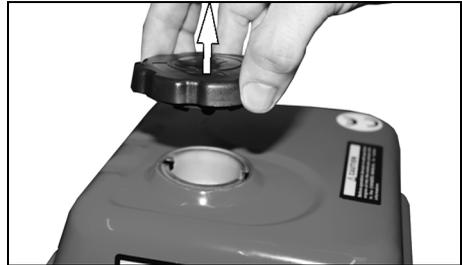


FUEL

- Refuel in a well-ventilated area, away from any sources of ignition.
- If the engine has been running, allow it to cool before refueling.
- Do not leave fuel within the reach of children.
- Refuel carefully to avoid spilling fuel.

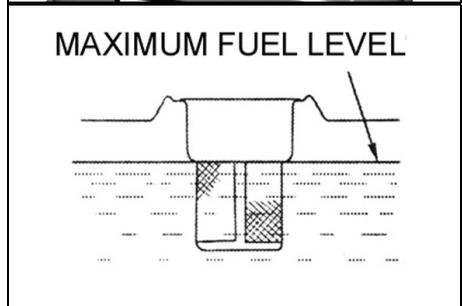
1. Remove the fuel tank cap.

- Just inside the fuel tank is a fuel strainer, which should be checked periodically and any contaminants which have accumulated must be removed.



2. Pour unleaded petrol through the fuel strainer and into the fuel tank.

- Do not fill above the fuel strainer shoulder.
- Use unleaded petrol with a pump octane rating of 86 or higher.



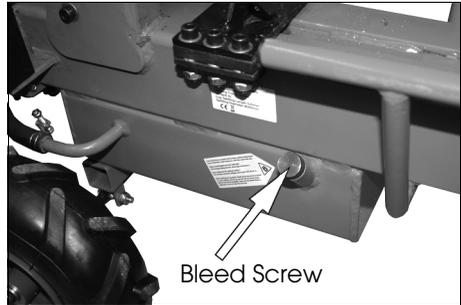
3. Replace the fuel filler cap securely.

BLEEDING THE HYDRAULIC SYSTEM

Before operating the log splitter, the bleed screw should be loosened by 2-3 turns until air can go in and out of the oil tank smoothly.

- Air flow through the bleed screw hole should be detectable when the log splitter is in operation.

Before moving the log splitter, make sure the bleed screw is tightened to avoid oil leaking from this point.



CAUTION: FAILURE TO DO THIS WILL CAUSE PERMANENT DAMAGE TO THE LOG SPLITTER.

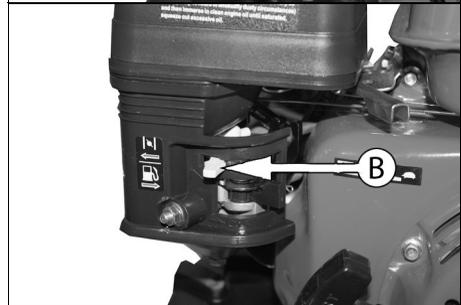
STARTING THE ENGINE

1. Open the fuel supply valve (A) by sliding it to the right.



2. Close the choke (B) by sliding it to the left.

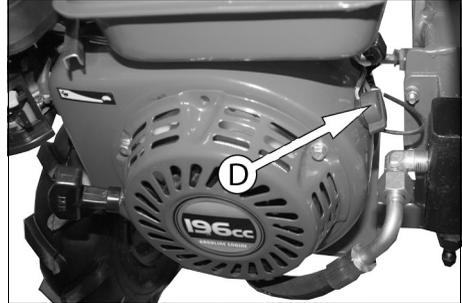
NOTE: If the engine is already hot, it is not necessary to close the choke.



3. Open the throttle (C) by sliding it to the left (rabbit symbol).



4. Turn the engine switch (D) to the on (I) position.



5. Gently pull the recoil starter handle until it engages, then pull it all the way out in a rapid pull.

- This may take 5-6 pulls to start.



6. Once the engine starts, move the choke to the 1/2 way position.

7. After 15 seconds, open the choke fully by moving it all the way to the right.

NOTE: Moving the choke too fast can kill the engine.

8. Adjust the throttle to the required speed.

- When idling use a lower speed to save fuel, and when in use increase the throttle to ensure maximum power.



IMPORTANT: allow the engine to warm up with no load for at least 1 minute after each start-up.

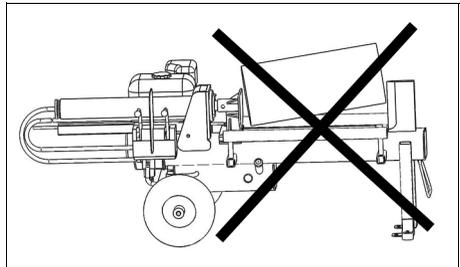
- The log splitter is now ready for use.

STOPPING THE ENGINE

1. Move the throttle lever to the right (idle position).
2. Set the engine switch to the off position.
3. Close the fuel valve by moving to the left.

POSITIONING THE LOGS

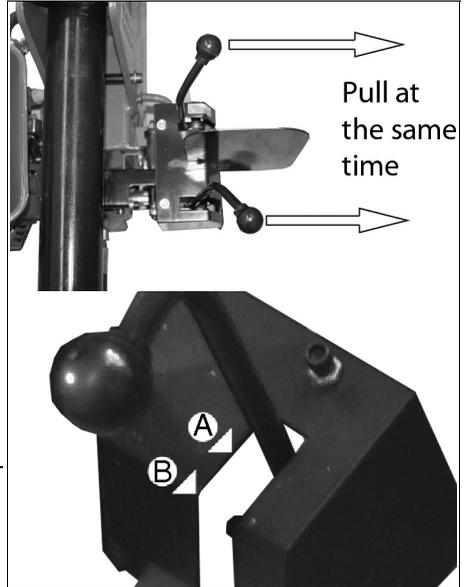
- Always place the logs on the log retaining frame.
- Make sure the logs do not twist, rock or slip while being split.
- Do not force the log splitter by splitting the log on the upper part of the wedge. This will break the wedge or damage the machine.
- Break the log in the direction of its grain.
- Do not place the log across the log splitter for splitting. It may be dangerous and may seriously damage the machine.
- Do not attempt to split two logs at the same time. One of them may fly up and hit you.



OPERATION

This log splitter is designed to be operated by one person only and requires two handed operation by the user.

1. Place a log on the log retaining frame and work table.
2. Pull both handles to point A (Rabbit symbol) to move the ram towards the wood quickly, once the ram makes contact pull both handles to point B (tortoise symbol) to increase the force when splitting the log.
 - The log splitter will stop if either control is released.
 - When both controls are released, the log splitter returns to the starting position..



WARNING: ONCE YOU START SPLITTING THE LOG, NEVER REACH INTO THE SPLITTING ZONE



CAUTION: NEVER FORCE THE LOG SPLITTER FOR MORE THAN 5 SECONDS. AFTER THIS TIME, THE MACHINE COULD BE DAMAGED.

For extremely hard logs, rotate the log by 90° to see whether it can be split in a different plane. If you are still not able to split the log, this means that the wood exceeds the capacity of the machine and should be discarded to protect the log splitter.

FREEING A JAMMED LOG

1. Release both controls.
 - The log splitter will move back to its starting position.
2. Insert a wedge of wood under the jammed log.
3. Start the log splitter to push the wedge under the jammed log.

Repeat above procedure with sharper sloped wedges of woods until the log is completely free.

ADJUSTING THE RETURN STOPPING POINT

If you are splitting a pile of shorter logs you may want to prevent the pusher plate returning all the way back to the start, this will speed up future operations.

To adjust how far the pusher plate comes back:

1. Extend the ram fully.

NOTE: Do not put any logs on the log splitter at this stage.

2. When the ram is at full extension, release both levers and quickly switch the engine off.

- The ram will not retract any further once the engine is switched off.

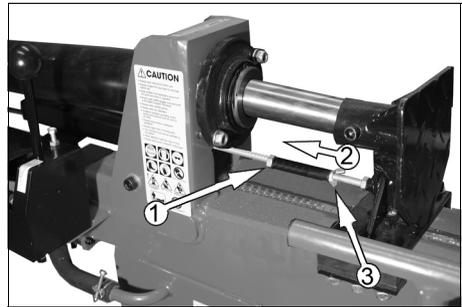
3. Adjust the nut (1) on the threaded rod to the required position

- Move the nut away from the splitter to shorten the stroke.

4. Slide the spacer (2) up against the nut.

5. Tighten the wing nut (3) up against the spacer.

6. Make sure your hands are away from the ram, and restart the engine, the ram should return as far as the stop will allow.



MAINTENANCE



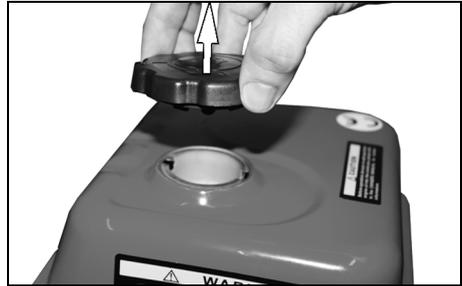
WARNING: MAKE SURE THAT THE LOG SPLITTER IS SWITCHED OFF BEFORE STARTING ANY CLEANING OR MAINTENANCE PROCEDURES.

SHARPENING THE WEDGE

After using the log splitters for some time, sharpen the wedge of the log splitter using a fine-toothed file and smooth any burrs or crushed area along the cutting edge.

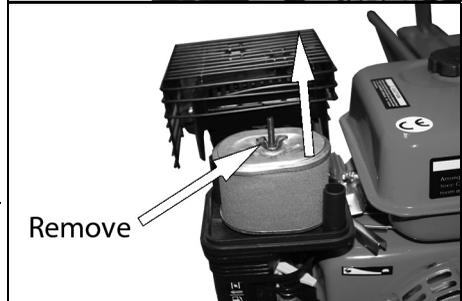
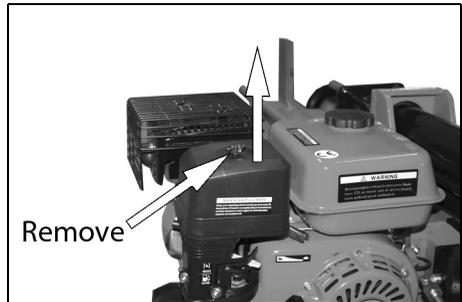
CLEANING THE FUEL STRAINER

1. Open the fuel tank cap.
2. Remove the fuel strainer.
3. Remove any contaminants.
4. Replace the fuel strainer.
 - Do not operate log splitter without fuel strainer properly installed.



CLEANING THE AIR FILTER

1. Unscrew and remove the wing nut.
2. Remove the air filter cover.
3. Remove the wing nut and remove the air filter.
4. Remove the foam element from around the cage and wash the element in a solution of warm water and mild detergent.



**WARNING: DO NOT USE
FLAMMABLE SOLVENTS OR
PETROL TO CLEAN THE AIR FILTER**

5. Rinse thoroughly and leave the element to dry.
6. Use compressed air to blow any contamination from the filter cage.
7. Once the foam element is completely dry, immerse it in clean engine oil and squeeze to remove excess oil.



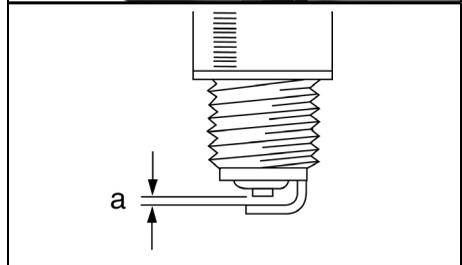
- If any part of the air filter is damaged contact Clarke spare parts department for a replacement.
- Replace the foam element around the cage and replace the air filter into its original position and refit the air filter cover.

CHANGING THE SPARK PLUGS



WARNING: ALLOW THE ENGINE TO COOL BEFORE REMOVING THE SPARK PLUG.

1. Remove the spark plug cap from the spark plug.
2. Use the spark plug spanner supplied to remove the spark plug.
3. Remove any carbon that has accumulated around the spark plug electrode.
4. Check the spark plug gap (a), it should be between 0.7 and 0.8 mm, adjust if necessary.
5. Check the overall condition of the spark plug and replace if necessary.
6. Reinstall the spark plug and replace the spark plug cap.



REPLACING THE HYDRAULIC OIL

Replace the hydraulic oil in the log splitter after every 150 hours of use. Take following steps to replace it.

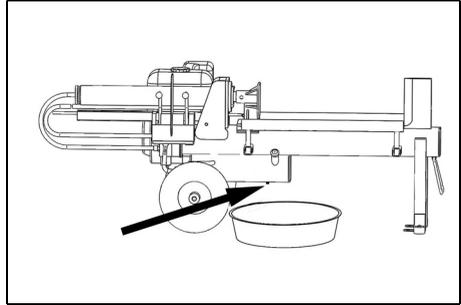
1. Make sure all moving parts stop and the log splitter is unplugged.

2. Place a 4 litre capacity container beneath the log splitter as shown.

3. Loosen the bleed screw by 2-3 turns until air can go in and out of the oil tank smoothly.

4. Unscrew oil drain screw located on the bottom of the log splitter

- Allow all of the oil to drain into the container.



5. Close the oil drain screw and using a clean funnel, refill with 4 litres of fresh hydraulic oil through the oil bleed screw port

- Only use CLARKE HYDRAULIC OIL, available from your nearest dealer.

Part No: 1Ltr - 3050830

5Ltr - 3050835

6. Wipe clean and replace the bleed screw.

7. Check the oil level using the dipstick which is attached to the bleed screw.

- Add more oil if required.

STORAGE

1. The petrol tank should be drained.

- Ensure that the engine is cold before draining the tank.

2. Remove the fuel tank cap and use a pump type syphon to drain the petrol into an appropriate, clean container.

- Do not store petrol for long periods of time.
- Dispose of excess petrol in an environmentally safe way. Your local recycling centre can advise you on the best method of disposal.

3. After the petrol tank has been drained, start the engine and allow it to use any petrol that may remain in the engine or fuel pipe.

4. Make sure that the log splitter has been thoroughly cleaned before storing it in a clean dry place.

5. Wipe clean the log splitter down using a dry cloth.

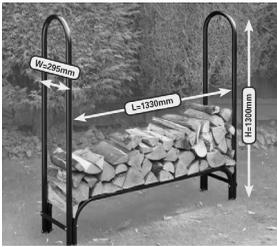
TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Fails to split logs	Log is improperly positioned.	Refer to "Operation" section for perfect log loading.
	The size or hardness of the log exceeds the capacity of the machine.	Reduce the log sizes before splitting it on the log splitter.
	Wedge cutting edge is blunt.	Refer to "Sharpening the Wedge" section to sharpen the cutting edge.
	Oil leaks.	Contact your Clarke dealer.
	Unauthorized adjustment was made on Max. Pressure Limiting Screw.	Contact your Clarke dealer.
The ram moves jerkily, making unfamiliar noise or vibrating a lot	Lack of hydraulic oil and excessive air in the hydraulic system.	Check oil level for possible oil refilling. Contact your Clarke dealer.
Oil leaks around cylinder ram or from other points	Air sealed in hydraulic system while operating.	Loosen Bleed Screw before operating the log splitter.
	Bleed Screw is not tightened before moving the log splitter.	Tighten the Bleed Screw before moving the log splitter.
	Bleed Screw is not tight.	Tighten the Bleed Screw.
	Hydraulic Control Valve Assembly and/or seal(s) worn.	Contact your Clarke dealer.

SPECIFICATIONS

Part Number	3402042
Engine type	Petrol (unleaded) Single Cylinder 4 stroke
Capacity/displacement:	196 cc
Oil Capacity	0.6 L
Lubrication Grade	SAE10W-30
Fuel Tank Capacity	3.8 Litres
Weight	89 Kg
Dimensions (L x W x H)	1420 x 740 x 595 mm
A-weighted Sound Pressure Level	91 dB (A)
Log Capacity	
Maximum Length	510 mm
Maximum Diameter	350 mm
Minimum Diameter	70 mm

ACCESSORIES

Electric Chainsaw- CECS405B	Log Rack - CWR1	Log Trolley with Cover - LCWC
		
<ul style="list-style-type: none"> • Powerful 2000w motor. • Includes top quality 405mm Oregon Bar® and chain for fast, efficient cutting • Part No. 3402072 	<ul style="list-style-type: none"> • Neatly stores firewood • Easy to assemble rack • Part No. 3402060 	<ul style="list-style-type: none"> • Great for moving logs from your woodpile to your door • Part No. 3400187

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

- 2004/108/EC *Electromagnetic Compatibility Directive.*
2006/42/EC *Machinery Directive.*
97/68/EC *The Emission of Gaseous and Particulate Pollutants for Internal Combustion Engines to be Installed in Non-road Mobile Machinery, (amended by 2010/26/EU)*

The following standards have been applied to the product(s):

EN 609-1:1999 +A2:2009, EN 55012:2007, EN 61000-6-1:2007, EN 1679-1:1998

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2011

Product Description: Petrol log Splitter
Model number(s): Logbuster 8
Serial / batch Number: N/A
Date of Issue: 16/09/2013

Signed:

J.A. Clarke
Director

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