

# DRAPER®

## INSTRUCTIONS FOR 230V 1500W 4Tonne Log Splitter

Stock No.81203

Part No.LS4T

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



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DRAPER®

### GENERAL INFORMATION

These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product. Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

# 1. TITLE PAGE

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## **1.1 INTRODUCTION:**

USER MANUAL FOR:

## **230V 1500W 4TONNE LOG SPLITTER**

Stock no. 81203

Part no. LS4T

## **1.2 REVISIONS:**

\_\_\_\_\_  
Date first published April 2015.  
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\_\_\_\_\_  
\_\_\_\_\_

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: <http://www.drapertools.com/b2c/b2cmanuals.pgm>

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## **1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:**

**WARNING!** Information that draws attention to the risk of injury or death.

**CAUTION!** Information that draws attention to the risk of damage to the product or surroundings.

**NOTE!** Important information.

## **1.4 COPYRIGHT © NOTICE:**

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## 3. GUARANTEE

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### 3.1 GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone Sales Desk: (023) 8049 4333 or Product Helpline (023) 8049 4344.

A proof of purchase must be provided with the tool.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase. The guarantee is extended to 24 months for parts only. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

# 4. INTRODUCTION

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## 4.1 SCOPE

This machine is designed to split logs, safely, easily and quickly. Use for consistent and accurate sizing of logs..

## 4.2 SPECIFICATION

Stock no. ....	81203
Part no. ....	LS4T
Rated voltage .....	230V~50Hz
Rated input .....	1500W
Log capacity .....	Diameter 5-25cm Length 37cm*
Max. cutting force .....	4 tonne
Hydraulic pressure .....	16Mpa
Hydraulic oil capacity .....	2.4L
Weight (machine only) .....	43kg

\* The diameter of the log is indicative – a small log can be difficult to split when it has knots or a particularly tough fibre.  
Equally, it may not be difficult to split logs with regular fibres even if its diameter exceeds the max. figure indicated above.

## 4.3 HANDLING & STORAGE

Always lift the machine by its purpose designed handle. Ensure you have a good stable position whilst using this product. Care should be exercised when using this product due to moving parts etc.

Store the product together with this manual in a cool dry place.

This product should be cleaned and maintained regularly to ensure it is operating at peak performance.

## 5. HEALTH & SAFETY INFORMATION

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### 5.1 GENERAL SAFETY INSTRUCTIONS FOR GARDEN TOOL USE

**WARNING:** Please read the following instructions carefully, failure to do so could lead to serious personal injury. When using electric tools, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before operating this product and save these instructions.

**IMPORTANT:** Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

1. **KNOW YOUR POWER TOOL:** Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.
2. **KEEP WORK AREA CLEAN:** Cluttered areas and benches invite accidents. Floors must not be slippery due to oil or sawdust.
3. **AVOID DANGEROUS ENVIRONMENTS:** Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit. Provide adequate space surrounding the work area. Do not use in environments with a potentially explosive atmosphere.
4. **KEEP CHILDREN AWAY:** All visitors should be kept a safe distance from work area.
5. **STORED TOOLS:** When not being used, all tools should be stored in a dry, locked cupboard and out of the reach of children.
6. **WEAR PROPER CLOTHING:** Do not wear loose clothing, neckties or jewellery (rings, wristwatches) to catch in moving parts. NONSLIP footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.
7. **USE SAFETY GOGGLES (Head Protection):** Wear CE approved safety goggles at all times. Normal spectacles only have impact resistant lenses, they are NOT safety glasses. Also, use face or dust mask if application is dusty and ear protectors (plugs or muffs) during extended periods of operation.
8. **NOISE LEVELS:** Some types of machines may have high noise levels when working. In such cases ear protection must be worn.
9. **VIBRATION LEVELS:** Hand held power tools produce different vibration levels. You should always refer to the specifications and relevant Health and Safety guide.
10. **DUST EXTRACTION:** If your tool is fitted with a dust extraction fitting, always ensure that it is connected and being used with a dust extractor. Vacuum cleaners can be used if suitable for the material being extracted.
11. **PROTECT YOURSELF FROM ELECTRIC SHOCK:** When working with power tools, avoid contact with any earthed items (e.g. pipes, radiators, hobs and refrigerators, etc.). If you are using a power tool in extreme conditions (e.g. high humidity or generating metal dust), always use an RCD (residual current device) at the power socket.
12. **STAY ALERT:** Always watch what you are doing and use common sense. Do not operate a power tool when you are tired or under the influence of alcohol or drugs.
13. **WHEN WORKING OUT OF DOORS:** Only use extension leads designed for that purpose.
14. **ACCESS TO MAINS SOCKET:** If a stationary machine is fitted with a moulded plug and cable, the machine should not be positioned so that access to the mains socket is restricted.
15. **DISCONNECT POWER TO THE TOOL:** When not in use, before servicing and when changing accessories such as cutters, etc.
16. **AVOID ACCIDENTAL STARTING:** Make sure the switch is in the OFF position before plugging the machine into the power supply.
17. **NEVER LEAVE MACHINE RUNNING UNATTENDED:** Turn power off. Do not leave machine until it comes to a complete stop.
18. **DO NOT ABUSE THE CORD:** Never carry the tool by the power cable or pull it from the socket. Keep the power cable away from heat, oil and sharp edges. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid hazard.
19. **NEVER STAND ON TOOL:** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials above or near the tool, so that it is necessary to stand on the tool to reach them.
20. **CHECK DAMAGED PARTS:** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, free running of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be repaired properly or replaced by an authorized service centre unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service facility. Do not use the tool if the switch does not turn it on and off.
21. **KEEP GUARDS IN PLACE:** And in working order.
22. **MAINTAIN TOOLS WITH CARE:** Keep tools sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged. Always keep the hand grips on the tool clean, dry and free of oil and grease.
23. **USE RECOMMENDED ACCESSORIES:** Consult the owners manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.
24. **REMOVE ADJUSTING KEYS AND WRENCHES:** Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

# 5. HEALTH & SAFETY INFORMATION

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- 25. **SECURE WORK:** Use clamps or a vice to hold work. This frees both hands to operate the tool.
- 26. **DO NOT OVERREACH:** Keep proper footing and balance at all times.
- 27. **USE RIGHT TOOL:** Do not force the tool or attachment to do a job for which it was not designed.
- 28. **DO NOT FORCE TOOL:** It will do the job better and safer at the rate for which it was designed.
- 29. **DIRECTION OF FEED:** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
- 30. **HAVE YOUR TOOL REPAIRED BY A QUALIFIED PERSON:** This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

**IMPORTANT NOTE:** Residual Risk. Although the safety instructions and operating manuals for our tools contain extensive instructions on safe working with power tools, every power tool involves a certain residual risk which can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!

## 5.2 ADDITIONAL SAFETY RULES

**WARNING:** Connect the machine only to a supply circuit protected by a residual current device (RCD) with a tripping current of not more than 30 MA.

**WARNING:**

- Keep bystanders away.
  - Remove the plug from the socket before carrying out adjustment, cleaning or maintenance.
  - Read user instructions before operating this machine.
  - The lawn mower shall not be operated without either the entire grass catcher or the guard in place.
  - **CAUTION:** Do not touch rotating blade.
  - Beware of blades. Blades continue to rotate after the motor is switched off. Remove plug from mains before maintenance or if cord is damaged.
  - Keep supply cord away from the blades. Blades can cause damage to the cords and lead to contact with live parts.
- 1. Training.**
- Read the instructions carefully. Be familiar with the controls and the proper use of the appliances.
  - Never allow children or people unfamiliar with these instructions to use the appliance. Local regulations may restrict the age of the operator.
  - Never mow while people, especially children, or pets are nearby.
  - The operator or user is responsible for accidents or hazards occurring to other people or their property.
- 2. Preparation.**
- While operating, always wear substantial footwear and long trousers.
  - Do not operate the appliance when barefoot or wearing open sandals.
  - Thoroughly inspect the area where the appliance is to be used and remove all stones, sticks, wires bones and other foreign objects.
  - Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
  - On multi-bladed appliances, take care as rotating one blade can cause other blades to rotate.
  - Prior to each use, thoroughly check the supply and extension cord for signs of damage or ageing.
- WARNING:**
- Do not use the lawn mower if the cords are damaged or worn.
- 3. Operation.**
- WARNING:**
- Do not connect a damaged cord to the supply or touch a damaged cord before it is disconnected from the supply. A damaged cord can lead to contact with live parts.
  - Mow only in daylight or in good artificial light.
  - Avoid operating the appliance in wet grass, where feasible.
  - Always be sure of your footing on slopes.
  - Walk, never run.
  - For wheeled rotary mowers, mow across the face of slopes, never up and down.
  - Exercise extreme caution when changing direction on slopes.
  - Do not mow excessively steep slopes.
  - Use extreme caution when reversing or pulling the appliance towards you.

## 5. HEALTH & SAFETY INFORMATION

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- Stop the blade(s) if the appliance has to be tilted for transportation when crossing surfaces other than grass, and when transporting the appliance to and from the area to be mowed.
- Never operate the appliance with defective guards or shields, or without safety devices, for example deflectors and/or grass catchers, in place.
- Switch on the motor according to instructions and with hands and feet well away from the blade(s).
- Do not tilt appliance when switching on the motor, except if the appliance has to be tilted for starting. In this case, do not tilt it more than absolutely and lift only the part which is away from the operator.
- Always ensure that both hands are in the operating position before returning the appliance to the ground.
- Do not put hands or feet near or under rotating parts. For rotary mowers, keep clear of the discharge opening at all times.

### WARNING:

- Do not touch the blades before the machine is disconnected from the supply and the blades have come to a complete stop.
- Never pick up or carry an appliance while the motor is running.
- Immediately disconnect the mains from the cord if it becomes damaged during use.
- Remove the plug from the socket.

- whenever you leave the machine;
- before cleaning a blockage;
- before checking, cleaning or working on the machine;
- after striking a foreign object. Inspect the appliance for damage and make repairs as necessary;
- if the appliance starts to vibrate abnormally (check immediately).

### 4. Maintenance and storage.

- Replace safety parts subjected to regular wear and tear.
- Keep all nuts, bolts and screws tight to be sure the appliance is in safe working condition.
- Check the grass catcher frequently for wear or deterioration.
- Replace worn or damaged parts for safety.
- For cylinder mowers, be careful during adjustment of the appliance to prevent entrapment of the fingers between moving blades and fixed parts of the appliance.
- For rotary mowers, ensure that only replacement cutting means of the right type are used.

### 5.3 CONNECTION TO THE POWER SUPPLY

Make sure the power supply information on the machine's rating plate are compatible with the power supply you intend to connect it to.

This product comes supplied with a UK standard 3 pin plug fitted. It is designed for connection to a domestic power supply rated at 230V AC.

If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow all the instruction supplied with the extension lead.

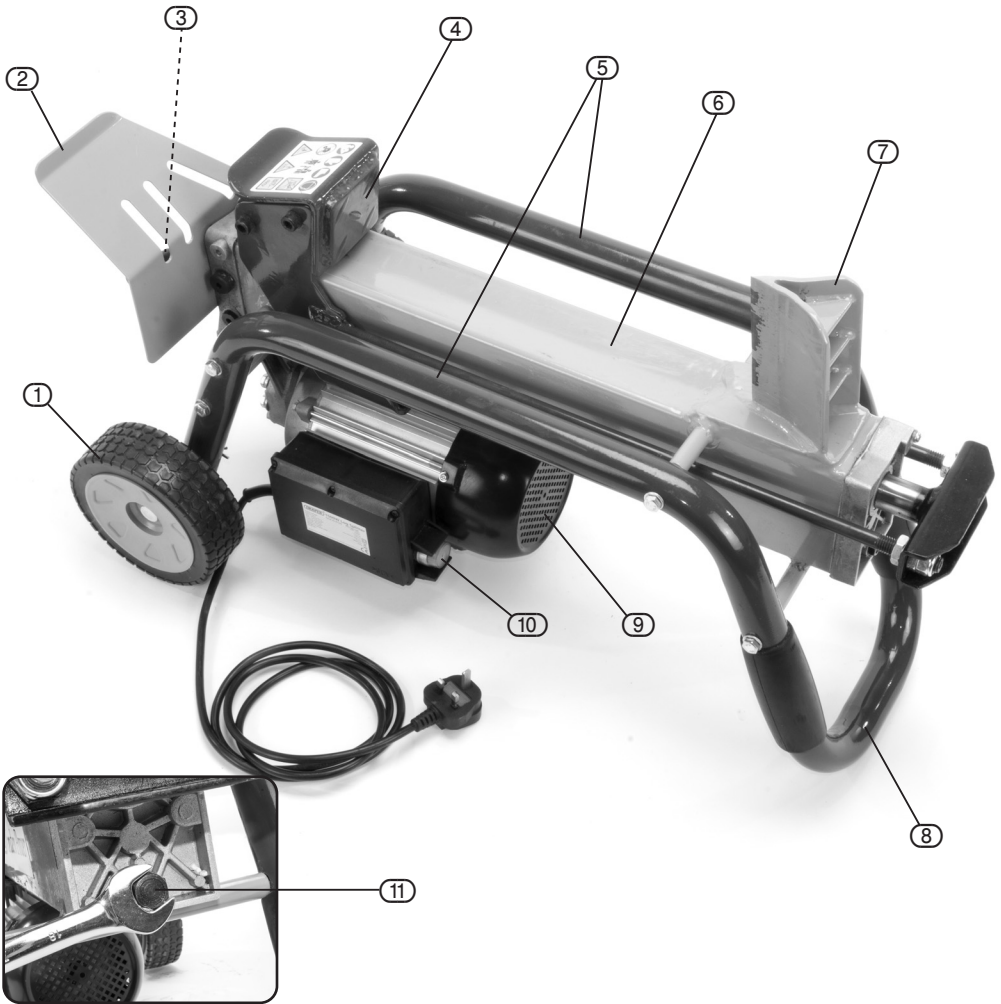
This product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.

Apart from replacing the fuse in the plug, no other electrical work is recommended on this product.



## 6. TECHNICAL DESCRIPTION

### 6.1 IDENTIFICATION



- ① Wheels for minor moving ONLY.
- ② Control lever guard.
- ③ Hydraulic control lever.
- ④ Log pusher.
- ⑤ Log retaining bars.
- ⑥ Work table.

- ⑦ Wedge.
- ⑧ Lift handle/support.
- ⑨ Motor.
- ⑩ ON/OFF Switch.
- ⑪ Oil drain bolt with dipstick.

# 7. UNPACKING & CHECKING

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## **7.1 PACKAGING**

Carefully remove the log splitter from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown on page 9. If any part is damaged or missing; please contact the Draper Helpline (the telephone number appears on the Title page) and do not attempt to use the shredder.

The packaging material should be retained at least during the guarantee period: in case the machine needs to be returned for repair.

**Warning!** Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.

If any of the packaging is to be thrown away, make sure they are disposed of correctly; according to local regulations.

## 8. PREPARING THE LOG SPLITTER

NOTE: Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

### 8.1 UNDERSTAND YOUR LOG SPLITTER

Read and understand the owners manual and labels fixed to the log splitter. Learn it's application and limitations before first use.

Carefully unpack the machine and check that all parts are present.

Familiarize yourself with the controls and features of this machine before use.

### 8.2 INSPECT YOUR LOG SPLITTER

Always check your log splitter before turning it on. Keep all guards in place and in good functioning condition. Form a habit of checking that all tools are removed from the area where the log splitter is to be operated. Always replace any loose, damaged or worn parts before turning this machine on.

### 8.3 AIR BLEEDING PROCEDURE - FIG. 1

The maximum safe working pressure for this machine has been set at the factory. Unauthorised resetting of this screw could cause serious damage to this machine as well as injury to the operator.

Before operating the log splitter, the bleed bolt should be loosened by some rotations until air can go in and out of the tank smoothly. Air flow through the bleed screw hole should be detectable while the log splitter is in operation. Before moving the log splitter, make sure the bleed bolt is tightened to avoid oil leaking from this point.

**WARNING:** Failure to loosen the bleed bolt will keep the sealed air in hydraulic system being compressed after being decompressed. Such continuous air compression and decompression will blow out the seals of the hydraulic system and cause permanent damage to the log splitter.

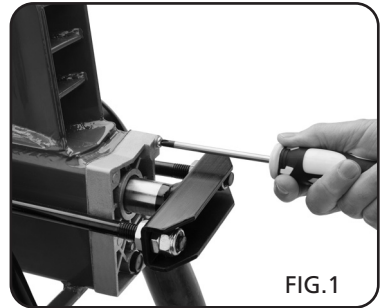


FIG.1

## 9. OPERATING THE LOG SPLITTER

### 9.1 SAFETY CONTROL SYSTEM - FIG.2

The log splitter is equipped with safety control system. This requires the machine to be operated by both hands of the operator, the left hand controls the hydraulic control lever (3) whilst the right hand controls the push button switch (10).

If either hand is removed the log splitter will stop. If both hands release the controls the log pusher will return to it's start position.

### 9.2 LOG SPLITTING - FIGS. 3 - 4

Place the log you want to split centrally on the log retaining plates and work table. Ensure that the log cannot twist or slip whilst being split. Once the log is placed correctly on the machine, operate the hydraulic control lever with your left hand and press the push button switch, the log pusher will travel to the right and split the log.

**WARNING:** Never force the log splitter for more than 5 seconds if it stops whilst splitting. Trying to force the log splitter to split excessively hard wood could result in damage to the machine and risks injury to the operator. If the log fails to split, rotate it 90° and try again. If the log still will not split then the logs hardness exceeds the capacity of the machine and thus the log should be discarded to avoid damage to the machine and injury to the operator.

Always split logs in the same direction as their grain, attempting to split the log against it's grain will cause damage to the machine and risk injury to the operator. Only split one log at a time. Attempting to split more than one log at a time exposes the operator and machine to the risk of personal injury and damage.

**NOTE:** As logs are a natural product, they vary in how well they split. The diameter of the log (5 – 25cm) is indicative of the capabilities of this splitter. However, allowances should be made for log age, condition, wood type and knots. These will all effect performance.

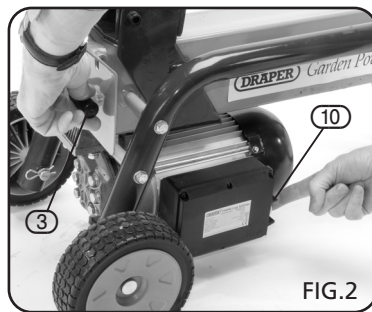


FIG.2



FIG.3



FIG.4

## 9. OPERATING THE LOG SPLITTER

### 9.3 FREEING A JAMMED LOG - FIG. 5

Release both controls.

After the log pusher moves back and completely stops at it's starting position, insert a wooden wedge under the jammed log.

Repeat above procedure with sharper slope wedges until the log is completely freed.

NOTE: Do not try to knock the jammed log off. Knocking about will damage the machine or may launch the log and cause accident.

### 9.4 REPLACING HYDRAULIC OIL - FIGS. 6 - 8

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

- Make sure all moving parts stop and the log splitter is unplugged.
- Unscrew oil drain bolt.
- Turn the log splitter on the support leg side over a 4 litre capacity container to drain the hydraulic oil off.
- Turn the log splitter on the motor side.
- Refill fresh hydraulic at the volume as per the hydraulic oil capacity of a particular model indicated in specification.
- Clean the surface of oil dipstick on the oil drain bolt and put it back into the oil tank whilst keeping the log splitter vertical.
- Make sure the level of the refilled oil is just between 2 grooves around the dipstick.
- Clean the oil drain bolt before threading them back. Make sure they are tightened to avoid leakage before placing the log splitter back level horizontally.

NOTE: Periodically check oil level to ensure it is between the 2 grooves around the dipstick. if the level is low, refill immediately.

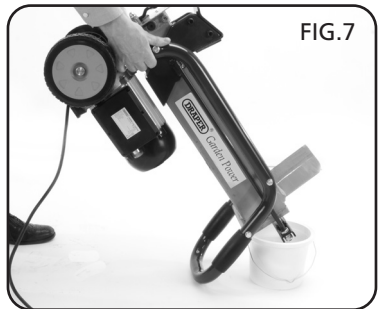
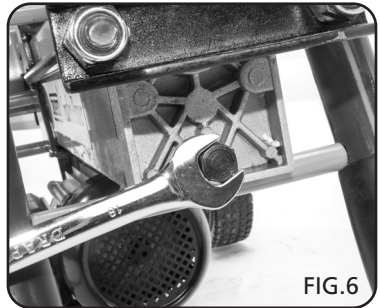
NOTE: The following hydraulic oils or equivalent are recommended for use with the log splitter's transmission system:

WARNING: Follow bleeding procedure detailed on Page 11.

SHELL Tellus 22, MOBIL DTE11, ARAL Vitam GF 22  
BP Energol HLP-HM 22.

### 9.5 SHARPENING WEDGE

After prolonged use the blade can become blunt. Sharpen the blade wedge of the log splitter using a fine-toothed file and smooth any burrs or crushed area along the cutting edge.



## 10. OPTIONAL ACCESSORIES

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82122 4-Way Splitting Wedge

# 11. TROUBLESHOOTING

TROUBLE	PROBABLE CAUSE	REMEDY
Motor fails to start.	<ol style="list-style-type: none"> <li>1. Overload Protection Device disengaged to protect the log splitter from being damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Contact a qualified electrician for opening the push button box to engage the overload protection device inside.</li> </ol>
Fails to split logs.	<ol style="list-style-type: none"> <li>1. Log is improperly positioned.</li> <li>2. The sizes or hardness of the log exceeds the capacity of the machine.</li> <li>3. Wedge cutting edge is blunt.</li> <li>4. Oil leaks.</li> <li>5. Unauthorized adjustment was made on max. pressure limiting screw. Lower max pressure rating was set.</li> </ol>	<ol style="list-style-type: none"> <li>1. Refer to "operation and use" section for perfect log loading.</li> <li>2. Reduce the log sizes before splitting it on the log splitter.</li> <li>3. Refer to "sharpening wedge" section (page 9) to sharpen the cutting edge.</li> <li>4. Locate leak(s) and contact the authorized service agent.</li> <li>5. Contact your nearest warranty/service agent.</li> </ol>
The log pusher moves fails to move smoothly/makes abnormal sounds or vibrates excessively	<ol style="list-style-type: none"> <li>1. Lack of hydraulic oil and excessive air in the hydraulic system.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check oil level for possible oil refuelling.</li> <li>2. Contact your nearest warranty/service agent.</li> </ol>
Oil leaks around cylinder ram or from other points.	<ol style="list-style-type: none"> <li>1. Air sealed in hydraulic system whilst operating.</li> <li>2. Bleed screw is not tightened before moving the log splitter.</li> <li>3. Oil drain bolt with dipstick is not tight enough.</li> <li>4. Hydraulic control valve assembly and/or seal(s) are worn.</li> </ol>	<ol style="list-style-type: none"> <li>1. Loosen bleed screw by 3-4 rotations before operating the log splitter.</li> <li>2. Tighten the bleed screw up before moving the log splitter.</li> <li>3. Tighten the oil drain bolt with dipstick.</li> <li>4. Contact your nearest warranty/service agent.</li> </ol>

## 12. MAINTENANCE

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### ***12.1 MAINTENANCE & PARTS REPLACEMENT***

Remove the plug from the socket before carrying out adjustment, servicing or maintenance. Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition.

The motor must be correctly ventilated during tool operation. For this reason avoid blocking the air inlets.

If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.



# 13. DISPOSAL

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## 13.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not abandon in the environment.
- Do not dispose of WEEE\* as unsorted municipal waste.



\* Waste Electrical & Electronic Equipment.

# 14. EXPLANATION OF SYMBOLS

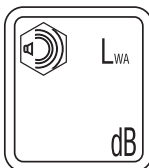
## 14.1 EXPLANATION OF SYMBOLS

Read operators manual.



Keep supply cord away from cutting means.

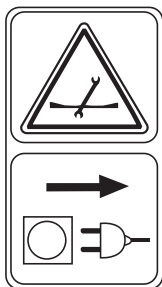
Keep bystanders away.



Single value noise marking.  
(Maximum declared  
A-weighted sound power  
level in decibels).



Class II construction  
(Double insulated).



Remove plug from  
mains before  
maintenance or if  
cord is damaged.



Do not dispose of WEEE\*  
as unsorted municipal waste.

\* Waste Electrical & Electronic Equipment.



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- **General Enquiries:** (023) 8026 6355
  
- **Service/Warranty Repair Agent**  
For aftersales servicing or warranty repairs, please  
contact the Draper Tools Helpline for details of an  
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