



OPERATING INSTRUCTIONS



**MODEL: LS 1200 EPS
POLE-CHAINSAW**

Extension tube not shown

T-820-22

Thank you for purchasing the Lawn Star Pole-chainsaw which is one of the finest and most advanced Pole-chainsaws today's technology can produce. Before you begin using it, please read this manual carefully and familiarise yourself with the control and the proper use of this product to ensure you get the best possible performance from it.



IMPORTANT INSTRUCTIONS FOR YOUR PERSONAL SAFETY

Before using the Pole-chainsaw, read the operating instructions and act accordingly. **ATTENTION:** You run the risk of injury if you use the Pole-chainsaw incorrectly. It is imperative that you read these Operating Instructions and follow the instructions given.

We recommend that first-time users must obtain practical training in the correct use of the Pole-chainsaw and the required safety equipment from an experienced operator.

A) General safety instructions

- Caution!: When electric tools are being used, the following basic safety measures must be observed to prevent electric shock, injury and risk of fire.
- Protect yourself against electric shock. Avoid body contact with grounded elements e.g. pipes radiators, stoves, refrigerators.
- Do not allow children less than 18 years of age, nor anyone who is not familiar with these instructions to use the Pole-chainsaw.
- The Pole-chainsaw should be used by trained and experienced persons only.
- Keep the operating instructions together with the Pole-chainsaw for future reference.
- Do not operate this Pole-chainsaw when tired, ill, or under the influence of alcohol, drugs or medication.
- Only operate the Pole-chainsaw if physically fit and alert.
- Obey all safety instructions and warnings.
- Ensure that children and other spectators are kept a safe distance from the working area.

B) Instructions on the proper use of personal protective clothing

Working with a Pole-chainsaw requires special measures with regard to protective equipment and clothing suitable for protecting your head, hands, feet, legs, eyes and ears.

- Keep body parts away from the chain.
- Do not wear loose fitting clothing which can get caught in moving parts.
- Always wear an approved safety helmet when felling trees and removing branches.
- Always wear safety goggles and/or a face guard.
- Always wear suitable protective gloves.
- Wear ear protection to avoid damage to your hearing.
- Wear safety clothing including sturdy, non-slip footwear.
- Wear leg guards.

C) Instructions on the safe use of the Pole-chainsaw



ATTENTION: Read the operating instructions carefully and familiarise yourself in the correct use of the Pole-chainsaw before using it for the first time.

- Use only genuine Lawn Star (Pty) Ltd. replacement parts when servicing or repairing the unit. These parts are listed in the operating instructions and are available from your supplying dealer or service agent.
- Repairs may only be performed by authorised service agents.

- Never carry or suspend the Pole-chainsaw by the electrical supply cable. Do not use the cable to pull the plug from the socket. Protect the cable from heat, oil and sharp edges.
- Check the extension cable and supply cable before every use and replace it if worn or damaged. Keep the handles dry and free of oil and grease.
- Remove the plug from the socket when replacing the chain or bar.
- Avoid accidental starting. Do not hold your finger on the switch when carrying the Pole-chainsaw when it is connected to the power source. Ensure that the switch is off before inserting the plug into the socket.
- Damaged switches must be replaced by an authorised service agent. Do not use the Pole-chainsaw if the switch is faulty.
- Avoid dangerous environments. Do not use the unit in poor light or in damp or wet locations. Do not use in the rain. Do not over-reach. Ensure good footing and balance is maintained.
- Check the Pole-chainsaw for damage before every use. Pay special attention to the chain-bar and chain. If any part is damaged or worn, repair or replace before operation.
- Always hold the Pole-chainsaw firmly with both hands while working with it.
- No other person may be within the working range of the Pole-chainsaw.
- The Pole-chainsaw must be disconnected from the power supply before adjusting the chain tension, exchanging the chain or carrying out any maintenance or repair on it. Disconnect from the plug!
- When not in use put the Pole-chainsaw down in such a manner that there is no risk of injury.
- Always use the chain bar cover when transporting the Pole-chainsaw.
- When switching on the Pole-chainsaw, ensure that you hold it firmly with both hands. The chain and bar must be free.
- Before starting work ensure good footing.
- Disconnect the plug immediately should the power cable be damaged or cut.
- Never cut with the tip of the bar – the Pole-chainsaw may recoil (“kick-back”)
- Do not use the Pole-chainsaw near combustible gases or dust – danger of explosion.
- The Pole-chainsaw may only be connected to socket outlets which are protected by a Residual Current Device (RCD) with a tripping current of not more than 30 mA.
- Fully unwind the extension cable before use.
- The Pole-chainsaw may only be used with all safety guards and features completely assembled. Ensure all screws and nuts are properly tightened before use.
- Switch the Pole-chainsaw off immediately if you notice any changes in the machine.
- Always have a first-aid kit at hand in case of accidents.
- If the chain comes into contact with soil, stones, nails or other foreign objects, stop the Pole-chainsaw immediately and check the chain as well as the bar.
- Never leave the Pole-chainsaw unsupervised.
- Ensure that no chain oil penetrates into the soil or sewage. Always place the Pole-chainsaw on something that will absorb any oil dripping from the bar or chain.
- Switch off the Pole-chainsaw immediately if it becomes blocked. Visually inspect the Pole-chainsaw for damage. Note, if the Pole-chainsaw is damaged, repairs and servicing must only be performed by authorised dealers and service agents.
- Never remove any of its components and never use a damaged or incomplete machine. Never modify any of the machine components. DO NOT fasten tools or accessories to the Pole-chainsaw that are not specified by the manufacturer.
- Do not use your Pole-chainsaw for any jobs other than those for which it was intended.
- **ATTENTION: Safety features are designed to protect you against injuries and must not be altered or circumvented.**

D) Warning: Danger of recoil (“kickback”)



WARNING: Kickback may occur when the motor is running and the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Top contact in some cases may cause a lightning fast reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause the operator to lose control of the saw and may cause serious personal injury.

As a Pole-chainsaw user you should take several steps to keep cutting jobs free from accident or injury.

With a basic understanding of kickback you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents:

1. Do not touch wood, branches or any other obstruction with the chain bar tip.
2. Always be aware of the bar tip in relation to other objects.
3. Begin cutting only once the Pole-chainsaw is at operating speed. Never start the machine while the chain rests on an object.
4. Piercing cuts with the bar tip may only be performed by trained and experienced operators.
5. Keep a good grip on the saw with both hands, the right hand on the rear handle, and the left hand on the front handle, when the motor is running. Use a firm grip with thumbs and fingers encircling the Pole-chainsaw handles. A firm grip will help you reduce kickback and maintain control of the saw.
6. Make certain that the area in which you are cutting is free from obstructions.
7. Do not overreach.
8. Ensure the chain is always sharp. Follow the manufacturer’s maintenance instructions for saw chain.
9. Only use replacement bars and chains specified by the manufacturer or the equivalent.

E) Instructions on safe working techniques

- Before starting to work ensure that there is sufficient light.
- Always maintain a normal body posture when operating the device. Always keep your balance.
- Do not work with your body bent forwards.
- Ensure that you are standing securely and do not work on snow, ice or newly barked wood. Danger of slipping!
- Do not work on ladders, scaffolding, or walls.
- Use the Pole-chainsaw only to cut wood. Do not cut plastics or other material.
- Ensure that the wood cannot twist while it is being cut.
- Watch out for splintering wood. While you are sawing you may be injured by flying wood chips.
- Do not use the Pole-chainsaw to lever or move the wood.
- Only cut with the lower section of the saw. The saw will be repulsed towards you if you try and cut with the upper section of the saw.
- Ensure that the wood is free from stones, nails and other foreign objects.
- Keep the running chain from touching the ground or wire fences. Do not cut thin wood or timber that is already sawn into small pieces.

Warning Symbols

SYMBOL

EXPLANATION



Attention! Observe the following safety warnings



Keep bystanders at least 15 metres away from the trimmer during operation



Read operating instructions



Wear eye protection



Do not operate the Pole-chainsaw in the rain

The following symbols appear on the chain saw. For safe operation and maintenance, please know what the symbols mean:



Chain direction:

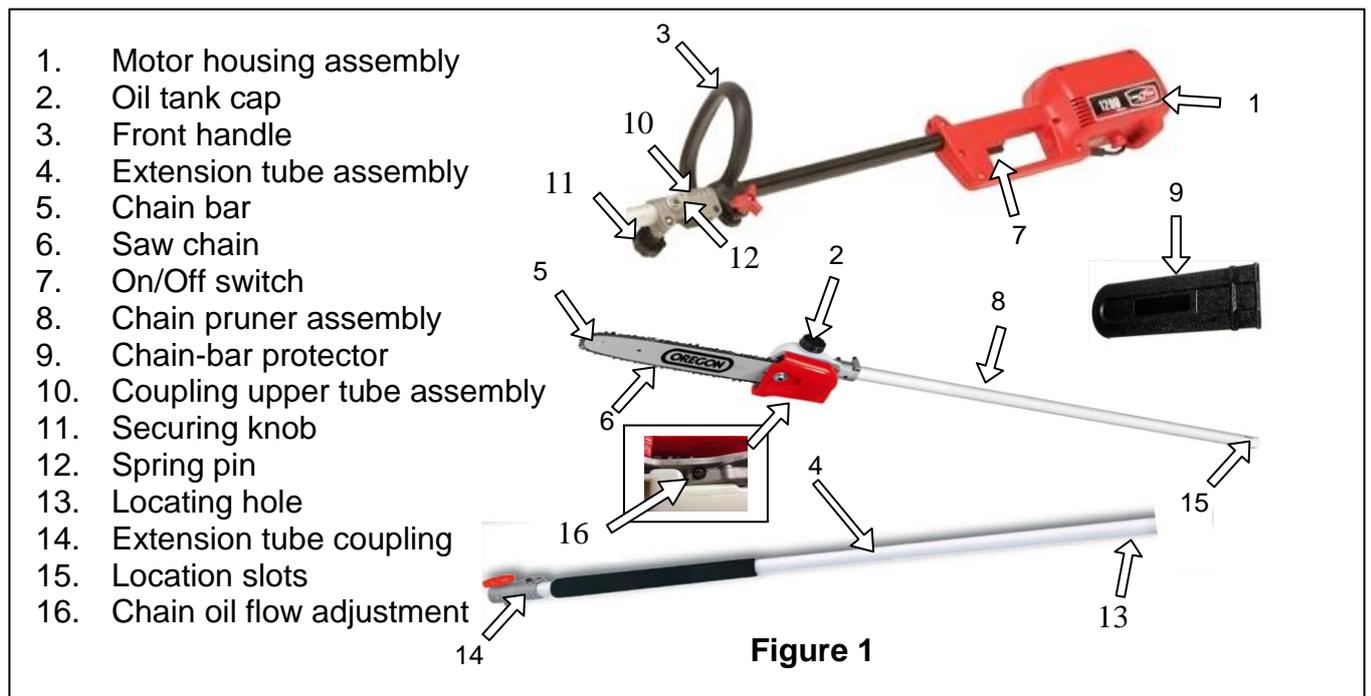
Symbol of chain and arrows show which direction to assemble the chain on the chain bar and machine.



Chain oil

ASSEMBLY OF POLE-CHAINSAW

Your Pole-chainsaw package contains the following items as illustrated in figure 1.



Assembling the Pole-chainsaw:

CAUTION: The saw chain has very sharp edges. Always use safety gloves when assembling the chain.

1. Ensure the Pole-chainsaw is unplugged from the mains supply.
2. Fit front handle (Fig 1-3) to Extension tube (Fig 1-10) by clipping the handle over the shaft and secure with bolt and knobs supplied with handle.
3. Loosen securing knob (Fig 1-11).
4. Insert extension tube assembly (Fig 1-4) into motor housing coupling (Fig 1-10).
5. Align both drive shafts so that tube can be fully inserted into coupling.
6. Align spring pin (Fig 1-12) with locating hole in tube assembly (Fig 1-13).
7. Release spring pin (Fig 1-12) and rotate tube assembly until spring pin clicks into place.
8. Tighten securing knob (Fig 1-11) to secure extension tube.
9. Loosen securing knob on extension tube coupling (Fig 1-14).
10. Align slots in chain saw attachment tube (Fig 1-14) with pins in extension tube coupling.
11. Align drive shafts and slide chain saw attachment tube into place.
12. Tighten securing knob to secure tube.
13. Fill chain lube oil tank with Lawn Star chain lube (Stock code: 90-30000) by removing oil tank cap (Fig 1-2) and filling with chain lube supplied.
14. Chain oil flow rate can be adjusted. rotate screw (Fig 1-16) clock-wise to increase flow rate.

Note: The Pole-chainsaw must never be operated without chain oil as this will cause damage to the chain, bar, and motor. No claims under warranty can be accepted if damage occurs due to the Pole-chainsaw being operated without chain oil.

Tensioning the chain:



Note: before you start tensioning the chain:

- Check to ensure that chain is running in the correct direction (Fig.4)
- Make sure that all the chain links are seated inside the groove of the guide bar.

1. Loosening the chain bar securing nut (Fig.2-1) by rotating it anti-clockwise.
2. Adjust the chain tension by rotating the screw (Fig.2-2) clockwise to tighten chain and anti-clockwise to loosen it.
3. Adjust chain until there is a 3mm gap between chain and bar when lightly pulled (Fig.2-3)

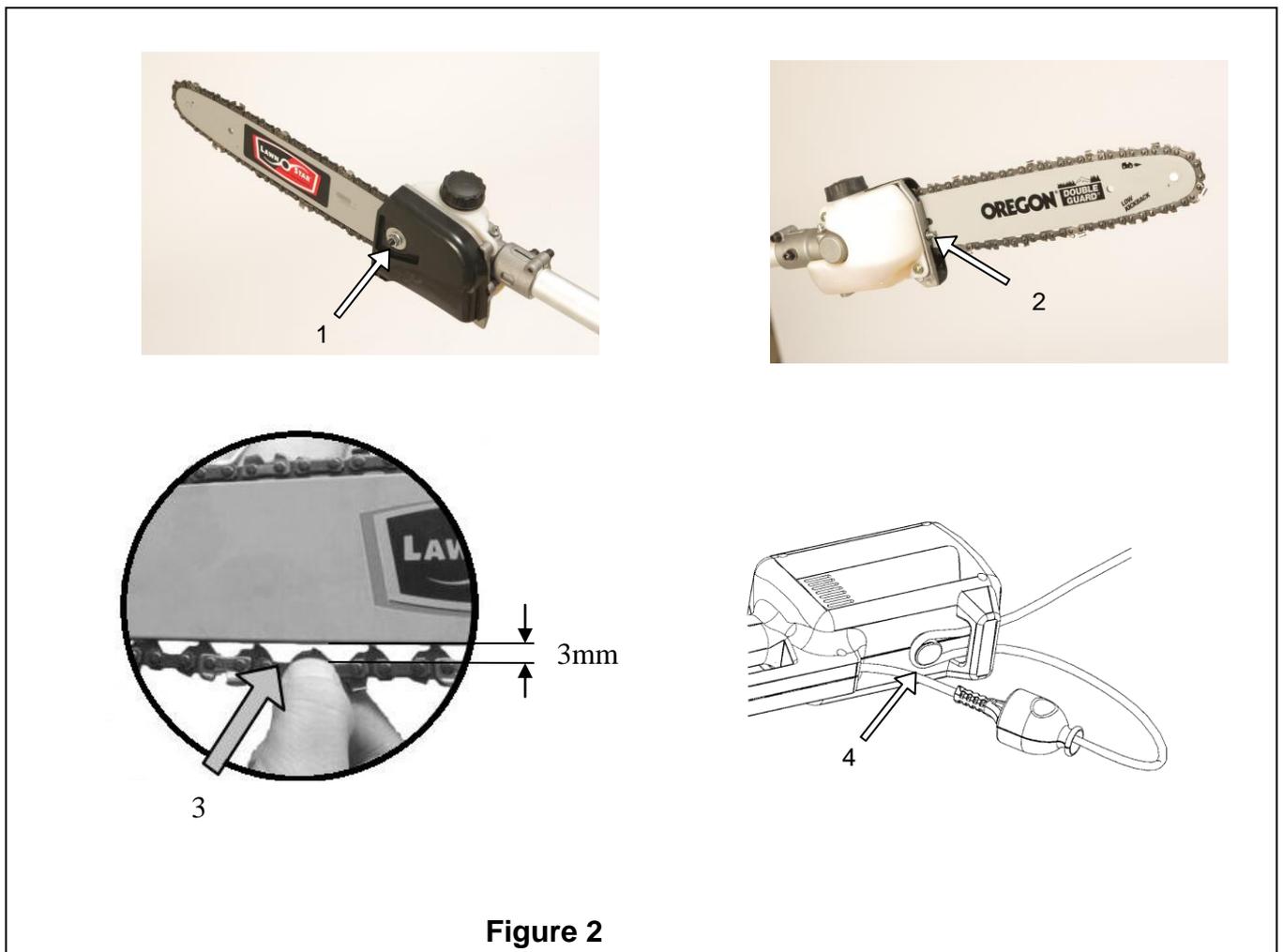


A new Pole-chainsaw requires a running-in period of approximately 5 minutes. Chain lubrication is very important during the running-in period. After running-in, check tension and re-tension if necessary. The chain must be re-tensioned immediately if it shakes or leaves the groove.

Check to ensure that chain is running in the correct direction (Fig.4)

NOTE: The chain tension has a significant effect on the life of the Pole-chainsaw, and must therefore be checked regularly. Check and re-adjust the tension frequently as a loose chain can easily de-rail or cause rapid wear of itself and the guide bar. When the chain warms up to operating temperature it will expand a little and must be re-tensioned. A new chain will have to be tensioned more frequently.

If the saw chain is re-tensioned when hot, it must be loosened again when the sawing work has been completed. Otherwise the contraction, which takes place when the chain cools off, will result in excessively high tension.



CHAIN OIL

- The Pole-chainsaw must never be operated without chain oil as this will cause damage to the chain, bar, and motor. No claims under warranty can be accepted if damage occurs due to the Pole-chainsaw being operated without chain oil.
- Use Lawn Star chain lube Stock code 90-30000
- Before filling the oil tank, remove the mains plug.
- Unscrew the cap (Fig.1 No.2) and fill the tank using a funnel and replace the cap securely.
- The oil level can be seen through the oil tank.
- Remove the chain oil from the oil tank if the Pole-chainsaw is not used for a long period.
- The oil tank should be emptied before the Pole-chainsaw is transported.
- After use, lay the Pole-chainsaw horizontally on an absorbent surface.
- Chain oil flow rate can be adjusted. Rotate screw (Fig 1-16) clock-wise to increase flow rate. There are 3 positions factory setting is position 1. Fully anti-clockwise.

BEFORE USING THE POLE-CHAINSAW

- Before proceeding to your job, read “IMPORTANT INSTRUCTIONS FOR YOUR PERSONAL SAFETY” section.
- Always follow the safety procedures and guidelines.
- Check Pole-chainsaw for damage before starting work.
- Ensure that the chain tension is correct. If the chain is too loose, it may come off during use and lead to injuries. The chain must be replaced immediately if it is damaged.
- Check the sharpness of the chain every time before using the Pole-chainsaw. A new chain must be used if the chain is blunt.
- It is recommended to first practice sawing on smaller easier-to-cut branches. This helps to get accustomed to the Pole-chainsaw.

CONNECTING THE POLE-CHAINSAW TO POWER



To prevent electrical shock hazards, use only extension cables suitable for outdoor use, with splash-proof socket outlets, preferably protected by sensitive Residual Current Device (RCD) with tripping current of not more than 30 mA. Use 2-core insulated cable, minimum (HO5VV-F) 2x1.0mm, in turn connected to a suitable mains connection plug. All components should meet your national, IEC or EN specifications. If the connection cable of this device is damaged it must be replaced by an authorised service agent specified by the manufacturer.

This Pole-chainsaw is fitted with a strain-relief mechanism to provide extra safety and to prevent accidental disconnection. First connect the supply plug to the extension cable, then double over the extension cable into a loop and push this through the cable restraint. Hook the loop into the strain-relief mechanism on the underside of the handle as shown in (Fig 2-4).

SWITCHING ON

Hold the motor housing assembly (Fig.1-1) firmly in one hand and the front handle in the other (Fig. 1-3). Ensure the saw chain is not in contact with anything and it is away from people or animals. Press the on/off switch (Fig.1-7) and the Pole-chainsaw will immediately start and the chain will run at high speed.

To switch off the Pole-chainsaw, release the switch.



Attention: The chain will immediately run at high speed when switched on. When putting the saw down, make sure that the chain does not touch any stones, soil or metal objects.

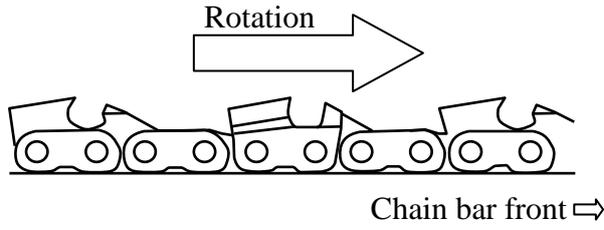


Figure 4

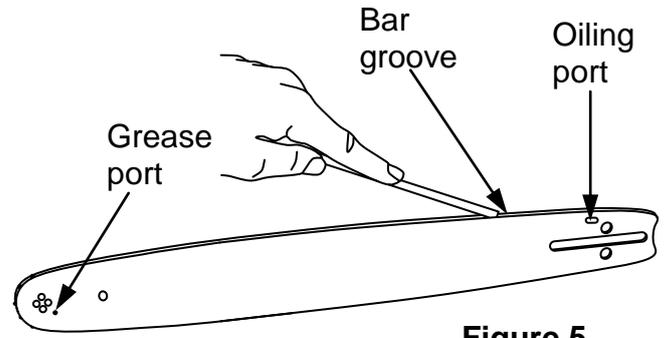


Figure 5

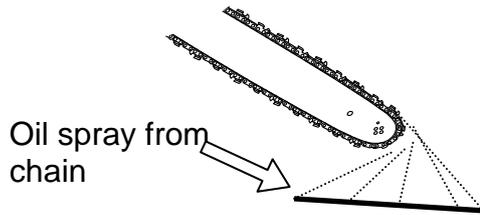


Figure 6

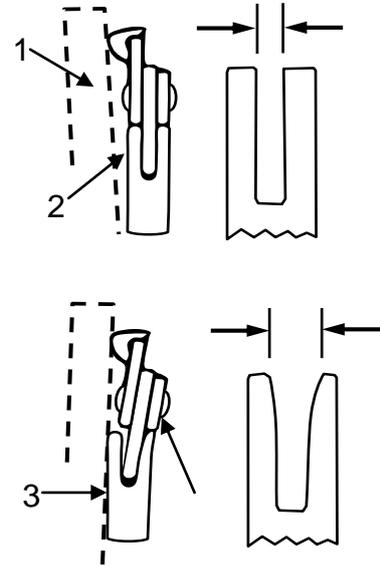


Figure 7

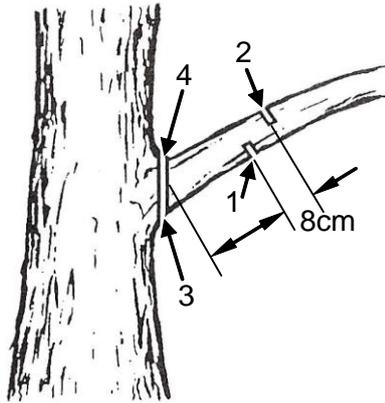


Figure 8

OPERATING INSTRUCTIONS

BEFORE STARTING MOTOR

- Check the working area, the wood to be cut and cutting direction. If there is an obstacle, remove it.
- Ensure you have a clear working area, secure footing and a planned retreat path from falling timber
- Inspect the machine for worn, loose, or damaged parts. Never operate the machine that is damaged, improperly adjusted, or is not completely and securely assembled.

WHEN STARTING THE MOTOR

- Ensure the saw chain is not in contact with anything.
- Always hold the machine firmly with both hands when the motor is running. Use a firm grip with thumb and fingers encircling the handles.
- Keep all parts of your body away from the machine when the motor is running.

OPERATION

- Keep the handles dry, clean and free of oil or grease.
- Use extreme caution when cutting small size brush and saplings because slender material may catch the saw chain and be whipped toward you or pull you off balance.
- When cutting a limb that is under tension, be alert for spring back so that you will not be struck when the tension in the wood fibres is released.
- Check the tree for dead branches that could fall during the felling operation.
- Always turn off the motor before setting the Pole-chainsaw down.

GENERAL INSTRUCTIONS ON WORKING WITH A POLE-CHAINSAW

- **WARNING:** Always ensure good footing. Do not use an unstable foothold, such as a ladder or log.
- Do not force the Pole-chainsaw when cutting wood. Apply only light pressure. If the chain is sharp, it will cut through the wood with ease.
- Never try to continue cutting with a blunt chain. That causes the motor to overheat and the loss of your right to claim under warranty. Always have a replacement chain at hand.
- Allow the motor to cool off and take regular brakes.
- After use always place the Pole-chainsaw horizontally to avoid oil dripping from the oil reservoir.
- When the saw chain is caught in a cut, do not attempt to pull it out by force, but use a wedge or a lever to open the cut.
- If possible, always work with the Pole-chainsaw running at full speed.
- Always use the chain cover when transporting the Pole-chainsaw.
- Prevent the chain from contacting soil.

CHECKING OIL SUPPLY

- After starting the motor, observe if chain oil is sprayed off (Fig.6).
- Be sure to refill the oil tank as soon as the chain oil level gets low.

INSTRUCTIONS ON THE CORRECT USE OF THE POLE-CHAINSAW

REMOVING BRANCHES (Fig.8)

- Ensure that you are standing properly.
- Cut a deep notch from below into the branch about 15cm from the trunk (Fig.8-1).
- Now cut the branch from above about 5cm further outwards from the lower notch until the branch drops off (Fig.8-2).
- In order to remove the remaining stub, cut from below about 1/3 into the remaining branch close to the trunk (Fig.8-3).
- Cut into the branch from above until the branch has been removed completely (Fig.8-4).
- **WARNING:** Do not remove free-hanging branches from below.

MAINTAINANCE AND SERVICING

Always disconnect the plug when carrying out maintenance and servicing.

In order to maintain your Pole-chainsaw in proper working order, perform the maintenance and checking operations described in this manual at regular intervals. Leave all maintenance other than the items listed in the Owner's Manual to your competent servicing dealer. Repairs and servicing must only be performed by authorised dealers and service agents.

- Always remove wood shavings and oil from the Pole-chainsaw after use. Ensure that the motor ventilation slots in the housing of the Pole-chainsaw are clear of dirt (if blocked there is danger of overheating).
- Remove the chain and clean it if it is dirty, e.g. gumming with resin. Place the chain in a vessel containing chain cleaner. There-after clean the chain with clean water. If the chain is not used again immediately, it must be treated with oil or a custom anti-corrosion spray.
- Check all the Pole-chainsaw parts for wear after every use. In particular the chain, bar and sprocket.
- Ensure that the chain tension is correct. If the chain is too loose, it may come off during use and lead to injuries. The chain must be replaced immediately if it is damaged. The cutting teeth must be at least 4 mm long.
- Check the motor housing and power cable after every use for damage. If there is any sign of damage, have the Pole-chainsaw checked by an authorised service agent.
- Check the oil level and lubrication after every use. Insufficient oil and lubrication leads to damage to the chain, bar and motor.
- Check the sharpness of the chain every time before you use the Pole-chainsaw. A blunt chain will cause over-heating of the motor.
- Sharpening a chain requires experience and specialised knowledge. We therefore recommend that sharpening be carried out by a specialised workshop.

Guide bar

When the guide bar is disassembled, remove sawdust in the bar groove and the oiling port. Grease the nose sprocket from the feeding port on the tip of the bar (Fig. 5).

Sprocket

Check for cracks and for excessive wear interfering with the chain drive. If the wearing is observed, replace. Never fit a new chain on a worn sprocket, or a worn chain on a new sprocket.

SAW CHAIN

WARNING: It is very important for smooth and safe operation to always keep the cutters sharp.

Your cutters need to be sharpened when

- Sawdust becomes powder-like
- You need extra force to saw in
- Vibration increases

GUIDE BAR

Reverse the bar occasionally to prevent partial wear. The bar rail should always be a square. To avoid one-sided wear, turn the guide bar over every time you replace the chain. You will also have to move the guide bar plate (Fig.7) to the other side of the guide bar.

To check for wear of the bar rail apply a ruler to the bar and the outside of a cutter. If a gap is observed between them, the rail is normal. Otherwise, the bar rail is worn. A worn bar needs to be replaced (Fig.12). Referring to figure 12:

1. Ruler
2. Gap
3. No gap
4. Chain tilts

GENERAL CLEANING

- Always remove wood shavings and oil from the Pole-chainsaw after use. Clean the Pole-chainsaw by brushing away dirt and waste residue that may be caught the machine. Wipe the chainsaw clean with a damp cloth or hand brush. **DO NOT** use running water, solvents, strong detergents or a high pressure washer to clean. (Use a mild detergent and sponge to clean the plastic surfaces.)
- Pay particular attention to the air intake area, keeping it free of debris.
- Switch the Pole-chainsaw off immediately if the machine starts to shake or produce abnormal noise.

TRANSPORTATION AND STORAGE

- **WARNING:** Stop the motor and allow the Pole-chainsaw to cool before storing or transporting in a vehicle.
- Always carry the unit with the motor stopped, the guide bar covered away from your body.
- Clean the Pole-chainsaw before storing.
- Store the Pole-chainsaw indoors in a dry, ventilated and locked place, out of reach of children.
- Store the Pole-chainsaw with all guards in place.



Attention:

Any maintenance and repair work beyond that described in this instruction manual must only be performed by an authorised service agent.

TECHNICAL DATA

Model:	LS 1200 EPS
Rated voltage:	230V – 50 Hz
Rated input:	1000 W
Nominal Frequency	50 Hz
Chain oil type:	Lawn Star chain lube 90-30000
Oil feeding system:	automatic pump
Chain type:	Lawn Star 80-27122
Chain speed:	13.5 m/s
Guide bar type:	sprocket nose, Oregon 100SDEA318
Guide bar length:	25 cm
Class of Protection:	II

TROUBLE SHOOTING GUIDE

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
The Pole-chainsaw does not start	No power	Check that there is power to the unit.
	Damaged extension cable	Check power supply cable for damage. If it has defects, it must be replaced by an authorised service agent.
Poor cutting performance	Blunt chain	Replace chain
	Incorrect chain tension	Tension chain
Sparking at the motor	Motor or carbon brushes damaged	Take the Pole-chainsaw to an authorised service agent.
Chain oil does not flow	Check oil level	Top up oil.
	Blocked oil flow openings	Unplug Pole-chainsaw. Clean the oil flow ports and passages.
	Poor quality / wrong grade oil	Drain and use correct oil.

LAWN STAR (PTY) LTD.

WARRANTY CARD

LS 1200 EPS

Please read carefully

This card is required for warranty repair claims. Please fill in this card and keep it in a safe place, stapled to the original proof of purchase. The original proof of purchase (i.e. receipt, invoice, docket, etc.) must show the original date of purchase and clearly identify the product.

WITHOUT THIS CARD AND ORIGINAL PROOF OF PURCHASE, ANY WARRANTY BECOMES NULL AND VOID.

Make:.....Serial No:.....Date of Purchase:.....
Model:.....

PURCHASER

NAME:
ADDRESS:
PHONE :

PURCHASED FROM

NAME :
ADDRESS:
PHONE:

LIMITED DOMESTIC USE WARRANTY

Lawn Star (Pty) Ltd. guarantees this unit to be free from defects in material and workmanship. If any such defect should become apparent during a period of

24 MONTHS

from the date of the original purchase, we undertake to repair this unit free of charge or replace this unit with a factory reconditioned unit at our discretion. This does not prejudice your rights in terms of the Consumer Protection Act.

Transport costs to our service centre and back to the owner, should such costs occur, will be carried by the owner of the unit.

The repaired or replaced unit will be covered by this warranty for the remainder of the original warranty period.

This warranty covers only the original purchaser of this unit.

This warranty becomes invalid if:

- **the unit has been used for rental purposes;**
- **damage has been caused by misuse, abuse, accident or normal wear and tear;**
- **spares and accessories other than specified by Lawn Star are used with this unit;**
- **the unit has been opened, altered or otherwise tampered with;**

The chain, bar and sprocket are wearing parts and are not covered by Warranty.

PLEASE READ AND UNDERSTAND THE INSTRUCTION MANUAL BEFORE YOU OPERATE THIS UNIT.

LAWN STAR (PTY) LTD.

For service and warranty repairs please contact your nearest Service Agent listed below:

CUSTOMER CARE : 0860-LAWNSTAR

**HEAD OFFICE : 98 Bofors Circle, Epping 2 South, Cape Town
PO Box 496, Parow, 7499**

Tel: 021-535-5249

Fax: 021-535-4624

EASTERN CAPE: Tel: 041-366-1300

Fax: 041-366-1300

FREE STATE : Tel: 082-556-6325

Fax: 086-691-6297

GAUTENG : Tel: 011-979-0162

Fax: 011-979-0174

KZN : 0860-LAWNSTAR

WEST COAST : 082-460-3507

NORTHERN CAPE: 082-460-3507

OVERBERG : 084-609-7341

NAMIBIA : Tel: 061- 232-475

Fax: 061- 242-139

BOTSWANA : +267-318-6851

ZIMBABWE : +263-4-486 192/646

For more information visit: **www.lawnstar.co.za**