

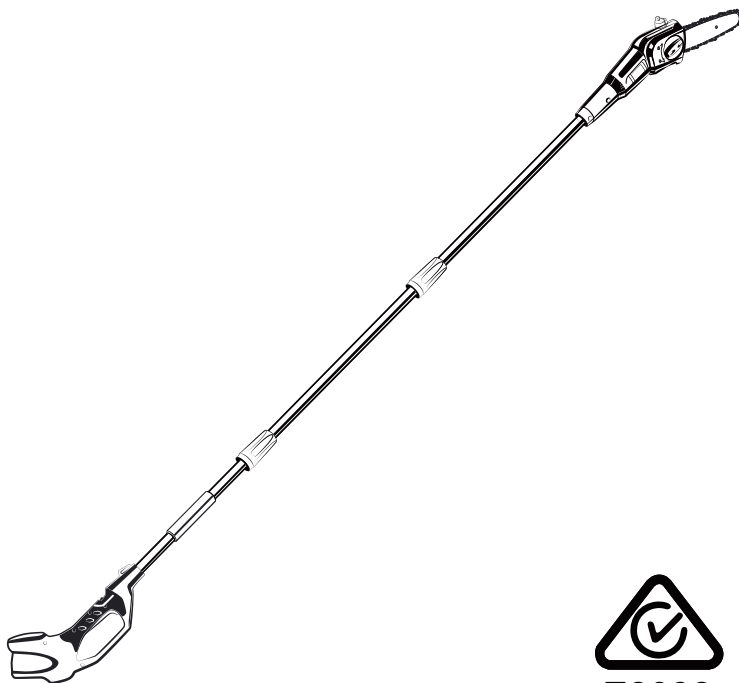
greenworks

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POLESAW

OPERATOR MANUAL



PSF301



E8038

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1 DESCRIPTION

1.1 PURPOSE

This product is a cutting implement mounted on a pole to enable the operator to cut the branches of standing trees. It is not intended for use as a regular chainsaw.

This appliance is not intended for use by persons with reduced understanding, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Never allow children to operate this product.

Never allow adults to operate this equipment without proper instruction.

Children should be supervised to ensure that they do not play with the appliance.

1.2 OVERVIEW

Figure 1-20

1 Trigger	12 Pole saw head
2 Lock-out button	13 Pole saw handle
3 Pole	14 Chain lubricant
4 Shoulder strap	15 Oil indicator
5 Collar	16 Battery
6 Extension pole	17 Chain cover lock knob
7 Guide bar cover	18 Sprocket
8 Oil tank cap	19 Chain tension pin hole
9 Chain	
10 Bar	
11 Scabbard	

1.3 PACKING LIST

1 Pole saw head	4 Scabbard
2 Extension pole	5 Shoulder strap
3 Pole saw handle	6 Manual

2 GENERAL POWER TOOL SAFETY WARNINGS

▲ WARNING

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your battery-operated (cordless) power tool.

2.1 WORK AREA SAFETY

- **Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
- **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

2.2 ELECTRICAL SAFETY

- **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*

2.3 PERSONAL SAFETY

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A lapse of attention while operating power tools may result in serious personal injury.*
- **Use personal protection. Always wear eye protection.** *Protective products such as dust mask, non-skid safety shoes, hard hat or hearing protection used appropriately will reduce personal injuries.*
- **Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack and when picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.*
- **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
- **Do not over-reach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- **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.*
- **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust related hazards.*
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*

2.4 POWER TOOL USE AND CARE

- **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do*

the job better and safer at the rate for which it was designed.

- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools.** Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

2.5 BATTERY TOOL USE AND CARE

- **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or fire.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact.** If contact accidentally occurs, flush with plenty of soap and water. If liquid contacts eyes, immediately seek medical help. Liquid ejected from the battery may cause irritation or burns.











2.6 SERVICE

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

3 SYMBOLS ON THE PRODUCT



Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper


interpretation of these symbols will allow you to operate the product better and safer.

Symbol	Explanation
	Direct current-Type or characteristic of current.
	Precautions that involve your safety.
	Read and understand all instructions before operating the product, and follow all warnings and safety instructions.
	Wear eye protection.
	Do not expose the product to rain or moist conditions.
	Wear ear protection.
	Wear head protection.
	Wear safety footwear.
	Wear non-slip, heavy duty gloves.
	DANGER! Risk of electrocution!




4 RISK LEVELS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	DANGER	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

SYMBOL	SIGNAL	MEANING
	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

5 RECYCLE

	Separate collection. You must not discard with usual household waste. If it is necessary to replace the machine, or if it is no more use to you, do not discard it with household waste. Make this machine available for separate collection.
	Separate collection of used machine and packaging let you recycle materials and use them again. Use of the recycled materials helps prevent environmental pollution and decreases the requirements for raw materials.
Batteries 	At the end of their useful life, discard batteries with a precaution for our environment. The battery contains material that is dangerous to you and the environment. You must remove and discard these materials separately at a equipment that accepts lithium-ion batteries.

6 INSTALLATION

6.1 UNPACK THE MACHINE

▲ WARNING

Make sure that you correctly assemble the machine before use.

▲ WARNING

- If the parts are damaged, do not use the machine.
- If you do not have all the parts, do not operate the machine.
- If the parts are damaged or missing, speak to the service center.

1. Open the package.
2. Read the documentation in the box.
3. Remove all the unassembled parts from the box.
4. Remove the machine from the box.

5. Discard the box and package in compliance with local regulations.

6.2 ADD THE BAR AND CHAIN LUBRICANT

Examine the amount of oil in the machine. If the oil level is low, add the bar and chain lubricant as follows.

i IMPORTANT

Use bar and chain lubricant that is only for chains and chain oilers.

i NOTE

The machine comes from the factory without bar and chain lubricant.

1. Loosen and remove the cap from the oil tank.
2. Put the oil into the oil tank.
3. Monitor the oil indicator to make sure that no dirt in the oil tank while you add the oil.
4. Put the oil cap on.
5. Tighten the oil cap.
6. The whole oil tank will last for 15 - 40 minutes.

i IMPORTANT

Do not use dirty, used or contaminated oil. Damage can occur to the bar or chain.

6.3 ASSEMBLE THE GUIDE BAR AND THE CHAIN

Figure 10-14

1. Remove the battery pack from the machine.
2. Loosen the chain cover by turning the chain cover knob counterclockwise.
3. Remove the chain cover.
4. Put the chain drive links into the bar groove.
5. Put the chain cutters in the direction of the chain operation.
6. Put the chain in position and make sure that the loop is behind the guide bar.
7. Hold the chain and bar.
8. Put the chain loop around the sprocket.
9. Make sure the chain tension pin hole on the guide bar fits correctly with the bolt.
10. Install the chain cover.
11. Tighten the chain. Refer to *Adjust the chain tension*.
12. Tighten the chain cover knob when the chain is well tensioned.

i NOTE

If you start the machine with a new chain, have a test for 2-3 minutes. After that, examine the tension again and tighten the chain if necessary.

6.4 FIT THE POLE SAW*Figure 2-3*

1. Mount the pole saw head on pole saw handle to achieve the standard length.
2. Slide the collar upwards.
3. Turn the collar clockwise to tight it.

6.5 EXTENSION OF THE POLE SAW*Figure 2-3*

1. Fit the extension pole between the pole saw handle and the pole saw head to achieve the maximum length.
2. Slide the collars upwards.
3. Turn the collars clockwise to tight them.

▲ WARNING

Periodically check the tightness of the connection of the collars.

6.6 USE THE SHOULDER STRAP*Figure 4*

1. Attach the carabiner to the carrying ring on the pole.
2. Put on the shoulder strap.
3. Adjust the length of the strap so that the carabiner is about the width of a hand below your right hip.

6.7 CUTTING PREPARATION*Figure 4*

Before you start to cut, make sure that

- Wear heavy gloves for maximum grip and protection.
- Maintain a proper grip on the machine during operation.
 - Use your right hand grip on the rear handle while your left hand grip on the pole shaft.
 - Keep your body to the left of the chain line.
 - Never use a left-handed (cross-handed) grip, or any stance that places your body or arm across the chain line.
- Never stand directly under the limb you are cutting.
- Periodically examine the tightness of the collars during operation.

6.8 INSTALL THE BATTERY PACK*Figure 5***▲ WARNING**

- If the battery pack or charger is damaged, replace the battery pack or the charger.
- Stop the machine and wait until the motor stops before you install or remove the battery pack.
- Read, know, and do the instructions in the battery and charger manual.

1. Align the lift ribs on the battery pack with the grooves in the battery compartment.
2. Push the battery pack into the battery compartment until the battery pack locks into place.
3. When you hear a click, the battery pack is installed.

6.9 REMOVE THE BATTERY PACK*Figure 5*

1. Push and hold the battery release button.
2. Remove the battery pack from the machine.

7 OPERATION**i NOTE**

Remove the battery pack and keep hands clear of the lock out button when you move the machine.

i IMPORTANT

Examine the chain tension before each use.

7.1 EXAMINE THE CHAIN LUBRICATION**i NOTE**

Do not use the machine without sufficient chain lubrication.

Figure 6

1. Examine the lubricant level of the chainsaw from the oil indicator.
2. Add the lubricant if it is necessary.

7.2 START THE MACHINE*Figure 7*

1. Pull the lock-out button with your thumb backward.
2. Press the trigger at the same time.

7.3 STOP THE MACHINE*Figure 7.*

1. Release the trigger to stop the machine.

7.4 DELIMITING A TREE*Figure 8*

▲ WARNING

Make sure that there is nothing or nobody in the area where the branches fall.

- Stand opposite the branch you will cut.
- Start to cut the higher branches.
- Then cut the lower branches.
- Cut downwards to prevent the bar from jamming.

7.5 LIMB TREE BRANCHES

Limbing is to remove the branches from a fallen tree.

Figure 9

1. Keep the larger lower branches to hold the log off the ground.
2. Remove the small limbs in one cut.
3. Limb the branches with tension from the bottom to up.
4. Keep the larger lower branches as a support until the log is limbed.

8 MAINTENANCE**▲ CAUTION**

Do not let brake fluids, gasoline, petroleum-based materials touch the plastic parts. Chemicals can cause damage to the plastic, and make the plastic unserviceable.

▲ CAUTION

Do not use strong solvents or detergents on the plastic housing or components.

▲ WARNING

Remove the battery pack from the machine before maintenance.

8.1 ADJUST THE CHAIN TENSION

Figure 10.13.14

▲ CAUTION

Wear protective gloves if you touch the chain, bar or areas around the chain.

1. Loosen the chain cover by turning the chain cover knob counterclockwise.

i NOTE

It is not necessary to remove the chain cover to adjust the chain tension.

2. Turn the chain tension screw behind the bar and chain clockwise to increase the chain tension.
3. Turn the chain tension screw counterclockwise to decrease the chain tension.

4. When the chain is at the wanted tension, tighten the chain cover.

8.2 SHARPEN THE CUTTERS

Sharpen the cutters if it is not easy for the chain to go into the wood.

i NOTE

We recommend that a service center, which has an electric sharpener, perform important sharpening work.

Figure 15-18.

1. Tensioning chain.
2. Sharpen the cutters corner with a 5/32 in. (4 mm) diameter round file .
3. Sharpen the top plate, side plate and depth gauge with a flat file.
4. File all the cutters to the specified angles and the same length.

i NOTE

During the process,

- Keep the file flat with the surface to be sharpened.
- Use the midpoint of the file bar.
- Use light but firm pressure when sharpening the surface.
- Lift the file away on each return stroke.
- Sharpen the cutters on one side and then move to the other side.

Replace the chain if:

- The length of the cutting edges is less than 5 mm.
- There is too much space between the drive links and the rivets.
- The cut speed is slow
- Sharpening the chain many times but it does not increase the cutting speed. The chain is worn.

8.3 GUIDE BAR MAINTENANCE

Figure 19-20.

i NOTE

Make sure that it is turned over periodically to keep symmetrical wear on the bar.

1. Lubricate the bearings on the nose sprocket (if present) with the syringe (not included).
2. Clean the bar groove with the scraping hook (not included).
3. Clean the lubrication holes.
4. Remove burr from the edges and level the cutters with a flat file.

Replace the bar if:

- the groove is not fit with the height of the drive links (which must never touch the bottom).
- the inside of the guide bar is worn and make the chain lean to one side.

9 TRANSPORTATION AND STORAGE

Before you move the machine, always

- Remove the battery pack from the machine.
- Keep hands clear of the lock-out button.
- Put the scabbard on the guide bar and the chain.

Before you put the machine into storage, always

- Remove all residual oil from the machine.
- Remove the battery pack from the machine.
- Clean all unwanted material from the machine.
- Make sure that the storage area is
 - Not available to children.
 - Away from agents which can cause corrosion, such as garden chemicals and de-icing salts.

10 TROUBLESHOOTING

Problem	Possible cause	Solution
The machine does not start.	The poles are not assembled correctly.	Assemble the poles according to the instructions.
	The lock-out button and trigger are not depressed at the same time.	<ol style="list-style-type: none"> 1. Push and hold the lock-out button 2. While you hold the lock-out button, pull the trigger. 3. Release the lock-out button to start the machine.

Problem	Possible cause	Solution
The bar and chain gets hot and smokes.	Oil tank is empty.	Fill the oil tank.
	The discharge port is blocked.	<ol style="list-style-type: none"> 1. Remove the battery pack. 2. Remove dirt from the discharge port.
	Inlet opening of inner oil tank is blocked.	<ol style="list-style-type: none"> 1. Clean the oil tank. 2. Fill with clean bar and chain lubricant.
The bar and chain gets too hot and can not cut.	The sprocket is stuck and clogged with debris.	<ol style="list-style-type: none"> 1. Clean the sprocket. 2. Fill with clean bar and chain lubricant.
	The chain tension is too tight or too loose.	Refer to Adjust the Chain Tension in the manual.
	The chain is dull	Sharpen or replace the chain.
The motor runs, but the chain does not cut correctly, or the motor stops after around 3 seconds.	The chain is put on backwards.	Take out the chain and turn it in the right direction.
	When you use the machine under load, it stops.	<ol style="list-style-type: none"> 1. Release the trigger. 2. Start the machine again.
	The chain is not lubricated.	Lubricate the chain to decrease the friction.

11 TECHNICAL DATA

Voltage	40V DC
No load speed	8 m/s
Guide bar length	203 mm
Chain stop	< 2 s
Chain oil capacity	50 ml
Weight (without battery pack)	3.9 kg
Measured sound pressure level	$L_{pA} = 87.7 \text{ dB(A)}$, $K_{pA} = 3 \text{ dB(A)}$
Guaranteed sound power level	$L_{wA,d} = 104 \text{ dB(A)}$
Vibration	$< 2.5 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$
Chain	91PJ033X/CL15033X

Guide bar	080NDEA318/ M1500833-1318TL
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12 WARRANTY

(The full warranty terms and conditions can be found on Greenworks webpage)

The Greenworks warranty is 4 years on the product, and 2 years on batteries (consumer/private usage) from the date of purchase. This warranty covers manufacturing faults. A faulty product under warranty might be either repaired or replaced. A unit that has been misused or used in other ways than described in the owner's manual might be rejected for warranty. Normal wear, and wear parts are not considered as warranty. The original manufacturer warranty is not affected by any additional warranty offered by a dealer or retailer.

A faulty product must be returned to the point of purchase in order to claim for warranty, together with the proof of purchase (receipt).