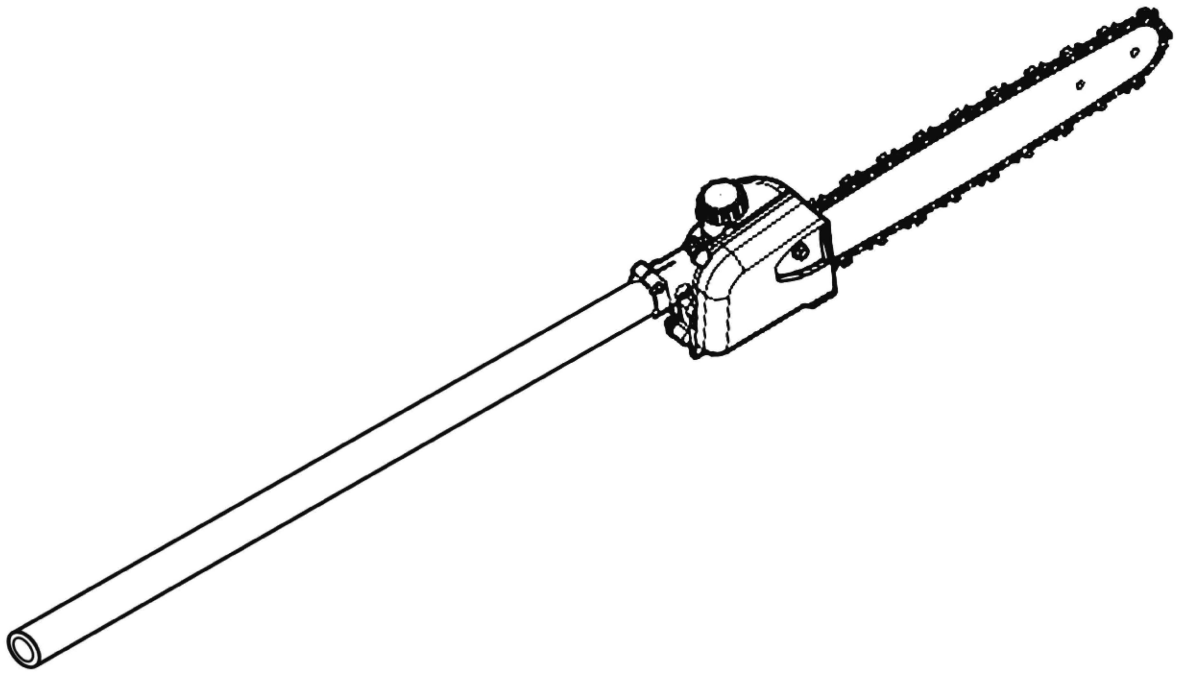
PRORUN®

POLE SAW ATTACHMENT

MODEL: PPA500

Operator's Manual



Everything PRORUN

Before operating, read the instructions.

⚠ IMPORTANT - READ CAREFULLY BEFORE USE

⚠ IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS

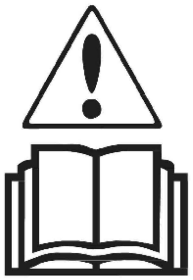
WARNING: To reduce the risk of injury, the user must read and understand the Operator's Manual before using this product. Save these instructions for future reference.

Please let us know what you think.
To leave a review and see our full line of products, visit:

proruntech.com ★★★★★
1-844-905-0882, info@proruntech.com

Version: B - Issue Date: 2023/03/31

1. INFORMATION OF SYMBOLS



WARNING! The pole saw attachment can be dangerous if used incorrectly or carelessly, and can cause serious or fatal injury to the operator or others. It is extremely important that you read and understand the contents of this owner's manual.

Please read the operator's manual carefully and make sure you understand the instructions before using the machine. Failure to do so can result in serious injury to the operator and/or bystanders.



Keep the machine a sufficient distance away from electrical power lines.



The chain oil tank



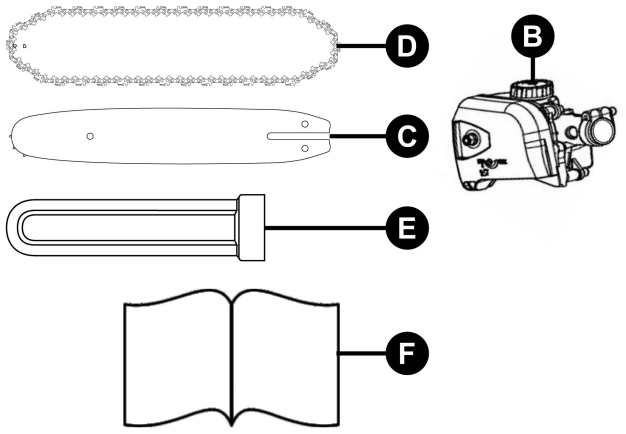
Adjust the oil pump
If you turn the rod by screwdriver follow the arrow to the "MAX" position, the chain oil flow increase, and if you turn to the "MIN" position, decrease.



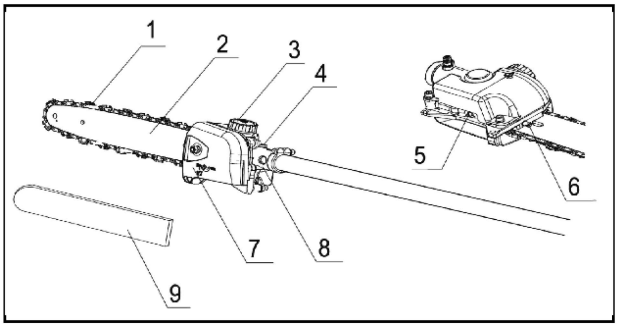
Shows the direction of the saw chain installation.

2. IDENTIFICATION

Components and Controls

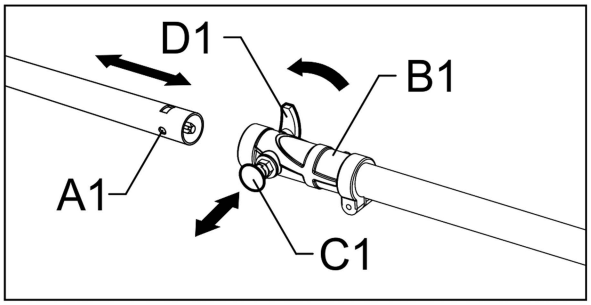


PART	DESCRIPTION
A	DRIVE SHAFT
B	CHAINSAW ASSEMBLY
C	CHAINSAW BAR
D	SAW CHAIN
E	BAR AND CHAIN COVER
F	OPERATOR'S MANUAL



1 Saw chain
2 Guide bar
3 Chian oil tank cap
4 Grease nozzle
5 Chain oil flow adjuster
6 Chain tension adjuster
7 Chain cover
8 Transmission
9 Guide bar cover

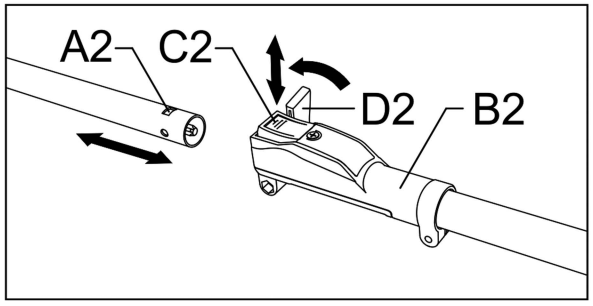
3. CONNECTING THE TUBE



Connecting the attachment to the gas multi-tool powerhead

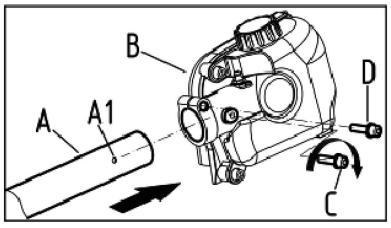
1.Align the round hole (A1) on the attachment's front tube and the lock pin (C1).
2.Pull the lock pin out while inserting the attachment tube into the connector (B1).
Push the attachment tube to the end until the lock pin aligns with the round hole.
3.Release the lock pin, it will return to its original position automatically and insert itself into the round hole on the attachment tube.
4.Make sure the attachment's tube cannot be rotated after the lock pin is back to its original position.
5.Turn the lock knob (D1) clockwise to tighten the attachment tube securely.

Connecting the attachment to the cordless multi-tool powerhead



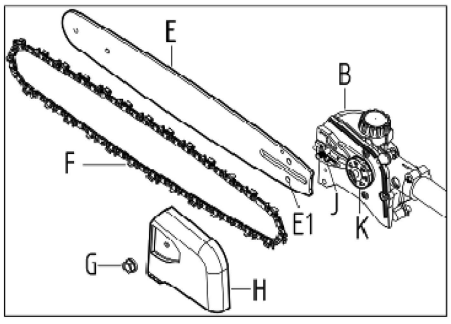
1.Align the rectangular hole (A2) on the attachment's front tube and the lock lever (C2).
2.Press down the lock lever while inserting the front tube into the connector (B2). Push the attachment tube to the end of the connector.
3.Release the lock lever, it will return to its original position automatically and insert the locking tab into the rectangular hole on the attachment tube.
4.Make sure the attachment's tube cannot be rotated after the lock pin is back to its original position.
5.Turn the lock knob (D2) clockwise to tighten the attachment tube securely.

4. FITTING GUIDE BAR AND SAW CHAIN

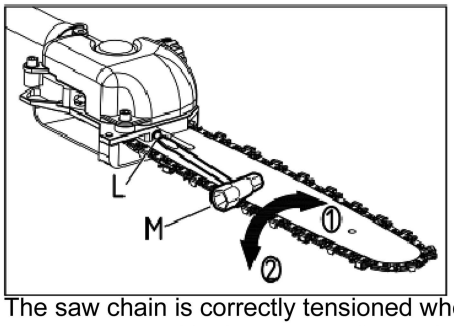


1. Fit the cutting head (B) on the shaft tube (A) so that the screw hole on the cutting head is aligned with the position hole (A1) on the shaft tube as shown. Then, insert and tighten the lock screw (D) and the position screw (C) securely.

Make sure that the drive shaft inside the shaft tube engages with the cut-out in the cutting head.

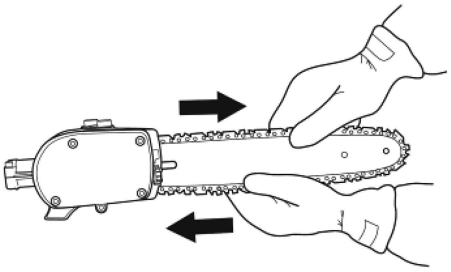


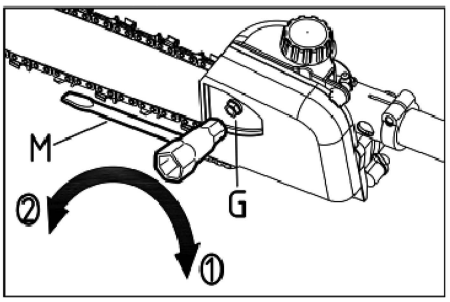
2. Unscrew the nut (G) and remove the chain cover (H).
Fit the saw chain (F) around the guide bar (E). Fit the guide bar over the bar bolt. Place the guide bar in its rearmost position. Place the saw chain over the drive sprocket (K) and in the groove on the guide bar. Begin on the top side of the guide bar.
Make sure that the edges of the cutting links are facing forward on the top edge of the guide bar.
Locate the chain adjuster pin (J) in the hole (E1) in the guide bar. Check that the drive links of the saw chain fit correctly on the drive sprocket and that the saw chain is in the groove in the guide bar. Fit the chain cover and tighten the nut finger-tight.



3. Tension the saw chain by turning the Chain tension adjuster (L) clockwise using the scrench / multi-tool (M). The saw chain should be tensioned until it does not sag from the underside of the bar.
① Chain tension ② Chain loosen

4. The saw chain is correctly tensioned when it does not sag from the underside of the guide bar, but can still be turned easily by hand. Hold up the guide bar tip and tighten the nut (G) with the scrench / multi-tool (M).



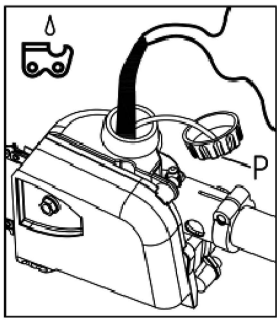


① Tighten ② Loosen

If necessary, readjust with the nut loose.
When fitting a new chain, the chain tension has to be checked frequently until the chain is run-in. Check the chain tension regularly. A correctly tensioned chain ensures good cutting performance and long life.

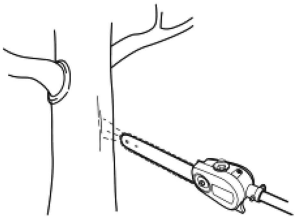
Chain oil

WARNING! Poor lubrication of cutting equipment may cause the chain to snap, which could lead to serious, even fatal injuries.

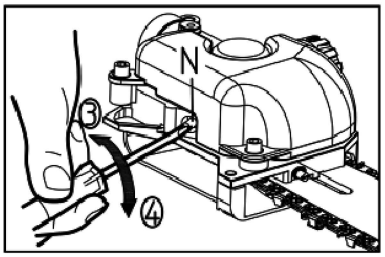


The special oil for lubricating the chain is biodegradable. Use of a mineral oil or engine oil causes serious damage to the environment. So only use special oil for this machine.
Never use waste oil! This is dangerous for yourself, the machine and the environment.
Chain oil must demonstrate good adhesion to the chain and also maintain its flow characteristics regardless of whether it is warm summer or cold winter weather.
The oil pump is preset at the factory to meet most lubrication requirements.
A full oil tank will run out as long as exhaust of a full tank of fuel, so fill oil tank completely every time you refuel fuel tank.

Tighten the oil tank cap (P) securely after every filling.



Checking chain lubrication
Aim the tip of the bar at a light coloured surface about 8 inches (20 cm) away. After 1 minute running at 3/4 throttle you should see a distinct line of oil on the light surface.

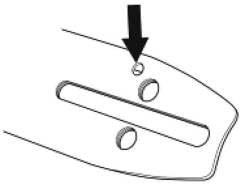


Adjusting chain lubrication

When cutting dry or hard species of wood it may be necessary to increase lubrication. Turn the Chain tension adjuster (N) counterclockwise to increase the oil flow. Remember that this will increase oil consumption. Turn the adjuster screw clockwise to decrease the oil flow.

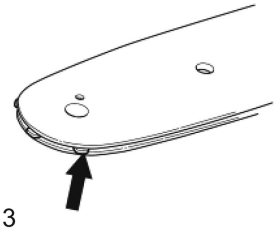
③ Oil flow increase ④ Oil flow decrease

If lubrication does not work



Check that the oil channel in the bar is not obstructed. Clean if necessary.

Check that the oil channel in the gear housing is clean. Clean if necessary.



Check that the bar tip sprocket turns freely. If the chain lubrication system is still not working after carrying out the above checks you should contact your service workshop.

Regularly check the degree of wear on the drive sprocket. Replace if wear is excessive.

5. CUTTING EQUIPMENT

This section describes how you can achieve maximum clearing capacity and extend the life of the cutting attachment through correct maintenance and using the right type of cutting attachment.



Only use recommended cutting attachments, using non-approved cutting attachments can cause serious or fatal injury to the operator and damage to the machine.



Maintain the correct raker clearance! Follow our instructions and use the recommended raker gauge. Too large a clearance increases the risk of kickback.

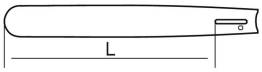


Keep the chain properly tensioned! If the chain is slack it is more likely to jump off and lead to increased wear on the bar, chain and drive sprocket.



Keep cutting equipment well lubricated and properly maintained! A poorly lubricated chain is more likely to break and lead to increased wear on the bar, chain and drive sprocket.

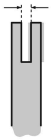
Specification of bar and saw chain



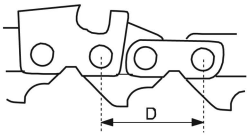
Bar length (inches/cm)



Number of teeth on bar tip sprocket (T). Small number = small tip radius = low risk of kickback.

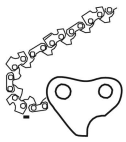


GUAGE: Bar groove width or Drive link width (inches/mm). The groove in the bar must match the width of the chain drive links.



Chain pitch (inches). The spacing between the drive links of the chain must match the spacing of the teeth on the bar tip sprocket and drive sprocket.

Pitch= D/2



Number of drive links. The number of drive links is determined by the length of the bar, the chain pitch and the number of teeth on the bar tip sprocket.

The table contains a list of all possible combinations between bar and chain, indicating those which may be used on each machine, marked with the symbol "*".

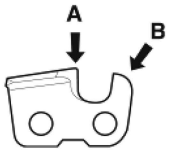
Pitch	Guide bar				Chain	
Zoll	Length Inches/cm	Groove width Inches/mm	Number of teeth	Code	Code	Number of drive links
3/8 inch	10 inches / 25cm	0.050 inches / 1.3mm	7	Oregon 100SDEA318	Oregon 91P040X	40

For replacement use only above bars and chains. If you use non-approved combinations it may cause serious personal injury and damage to the machine.

General information on sharpening cutting teeth

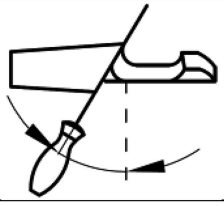
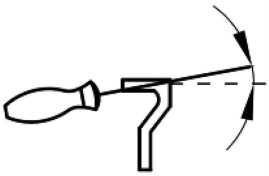
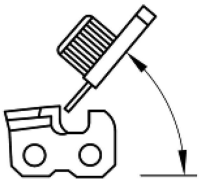
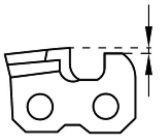
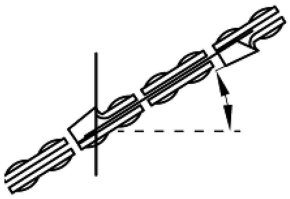
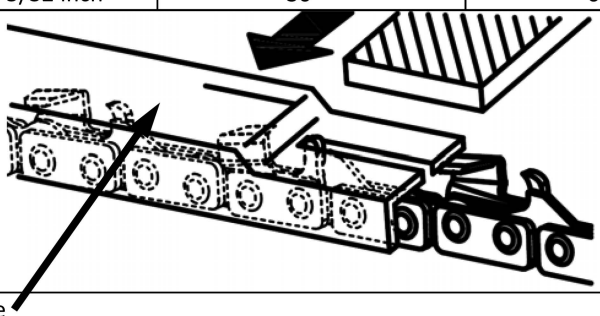
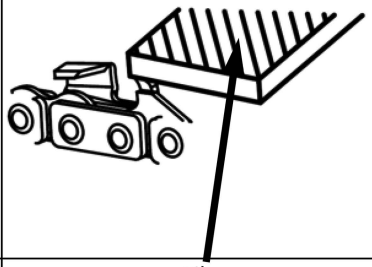
WARNING! Always stop the engine before doing any work on the cutting attachment. This continues to rotate even after the throttle has been released. Ensure that the cutting attachment has stopped completely and disconnect the HT lead from the spark plug before you start to work on it.

Never use a blunt chain. When the chain is blunt you have to exert more pressure to force the bar through the wood and the cuttings will be very small. If the chain is very blunt it will not produce any cuttings at all. Wood powder would be the only result.

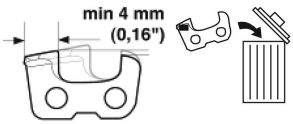


The cutting part of the chain is called the cutting link and this consists of a cutting tooth (A) and the raker lip (B). The cutting depth is determined by the difference in height between the two.

Maintenance the saw chain as below sheet:

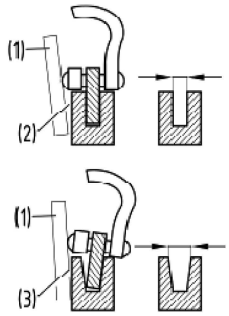
Type of chain	File diameter	Top plate angle	Down angle	Head tilt angle (55°)	Depth gauge standard
					
		Vise rotate angle	Vise tilt angle	Side angle	
					
91P	5/32 inch	30°	0°	80°	0.025 inch
					
Depth gauge				File	

Make sure every cutter has the same length and edge angles as illustrated.



File all the teeth to the same length. When the length of the cutting teeth is reduced to 4 mm (0.16") the chain is worn out and should be replaced.

Maintenance guide bar



• Reverse the bar occasionally to prevent partial wear.

• The bar rail should always be a square. 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. Such a bar needs to be corrected or replaced.

Whether there are burrs on the edges of the bar. Remove these with a file if necessary.

Whether the tip of the bar is uneven or badly worn. If a hollow forms on the underside of the bar tip this is due to running with a slack chain.

To prolong the life of the bar you should turn it over daily.

(1) Ruler (2) Gap (3) No gap

6. PRUNING WITH A POLE SAW

Hold the machine as close to your body as possible to get the best balance.

Make sure that the tip does not touch the ground.

Do not rush the work, but work steadily until all the branches have been cut back cleanly.

Always slow the engine to idle speed after each working operation. Long periods at full throttle without any load on the engine can lead to serious engine damage.

Always work at full throttle.

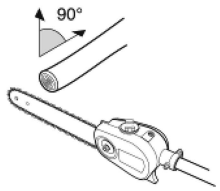
Let the engine drop back to idle speed between each cut. Long periods at full throttle can cause serious damage to the centrifugal clutch.

⚠WARNING Never stand directly underneath a branch that is being cut. This could lead to serious or even fatal personal injury.

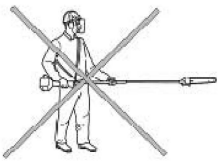
Observe great care when working close to overhead power lines. Falling branches can result in short-circuiting.

⚠WARNING Observe the applicable safety regulations for work in the vicinity of overhead power lines.

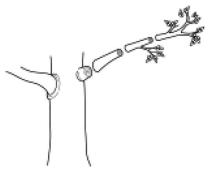
⚠WARNING This machine is not electrically insulated. If the machine touches or comes close to high-voltage power lines it could lead to death or serious bodily injury. Electricity can jump from one point to another by arcing. The higher the voltage, the greater the distance electricity can jump. Electricity can also travel through branches and other objects, especially if they are wet. Always keep a distance of at least 30 feet (9 meters) between the machine and high-voltage power lines and/or any objects that are touching them. If have to work within this safe distance you should always contact the relevant power company to make sure the power is switched off before you start work.



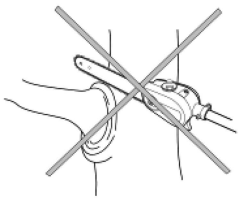
Whenever possible, position yourself so that you can make the cut at right angles to the branch.



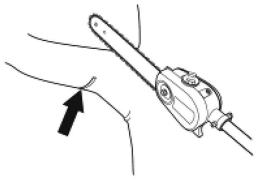
Do not work with the shaft held straight out in front of you (like a fishing rod) as this increases the apparent weight of the cutting attachment.



Cut large branches in sections so that you have better control over where they fall.



Never cut through the swelling at the root of the branch as this will slow down healing and increase the risk of fungal attack!



Make an initial cut on the underside of the branch before cutting through the branch. This will prevent tearing of the bark, which could lead to slow healing and cause permanent damage to the tree. The cut should not be deeper than 1/3 of the branch thickness to prevent jamming. Keep the chain running while you withdraw the cutting attachment from the branch to prevent it jamming.



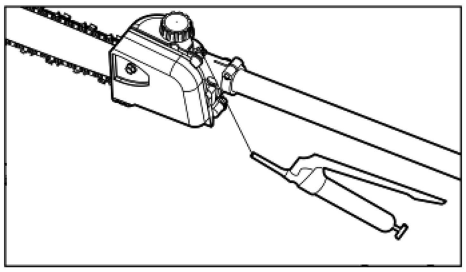
Use the harness to support the weight of the machine and make it easier to handle.

Make sure you have a firm footing and that you can work without being hampered by branches, stones and trees.

Transmission

The transmission is filled with the right quantity of grease at the factory. However, before using the machine you should check that the previously named components are filled half full with grease.

The grease in the bevel gear does not normally need to be changed except if repairs are carried out.



6. TECHNICAL DATA

Technical data	
Oil tank capacity, liter	4.6 oz. (0.135 liters)
Drive sprocket	7T X 3/8 inch
Pitch	3/8 inch
Gauge	0.05 inch
Cutting length	10 inch (250 mm)

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