



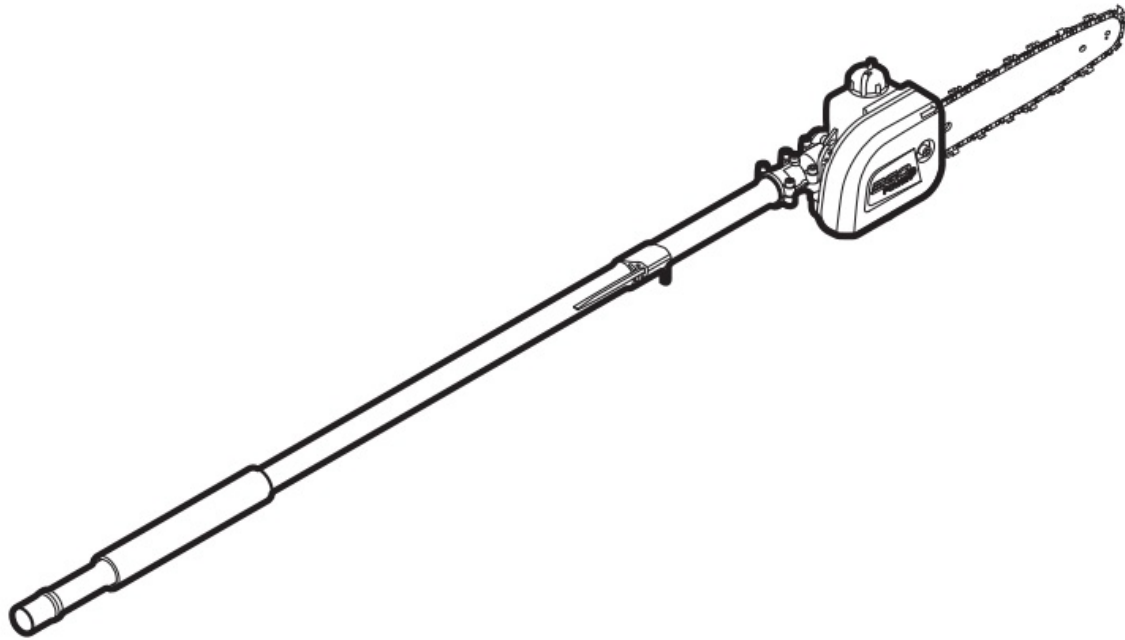
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EGO PSA1000 Multi Tool Chainsaw Adapter



READ ALL INSTRUCTIONS!

READ OPERATOR'S MANUAL

WARNING: To ensure safety and reliability, all repairs and replacements should be performed by a qualified service technician.

SAFETY SYMBOLS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves, eliminate any danger. The instructions and warnings they give are no substitutes for proper accident prevention measures.

WARNING: Be sure to read and understand all safety instructions in this Operator's Manual, including all safety alert symbols such as "DANGER," "WARNING," and "CAUTION" before using this tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

SYMBOL MEANING












SAFETY ALERT SYMBOL: Indicates DANGER, WARNING, or CAUTION. May be used in conjunction with other symbols or pictographs.

WARNING: The operation of any power tools can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool

operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields.

SAFETY INSTRUCTIONS

This page depicts and describes safety symbols that may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and operate it.

	Safety Alert	Indicates a potential personal injury hazard.
	Read & Understand Operator's Manual	To reduce the risk of injury, user must read the operator's manual.
	Wear Eye Protection	Always wear safety goggles or safety glasses with side shields and a full face shield when operating this product.
	Wear Ear Protection	Pole saw noise may damage your hearing. Always wear sound barriers (ear plugs or ear muffs) to protect your hearing.
	Wear Head Protection	Wear an approved safety hard hat to protect your head.
	Wear Protective Gloves	Protect your hands with gloves when handling saw and saw chain. Heavy-duty, nonslip gloves improve your grip and protect your hands.
	Wear Safety Footwear	Wear non-slip safety footwear when using this equipment.
	Keep sufficient distance away from electrical power lines	To prevent electrocution, do not operate within 15m of overhead electrical lines. Contact with or use near power lines may cause serious injury or electric shock resulting in death.
	CE	This product is in accordance with applicable EC directives.
	UKCA	This product is in accordance with applicable UK legislation.
	WEEE	Waste electrical products should not be disposed of with household waste. Take to an authorized recycler.

	Noise	Guaranteed sound power level. Noise emission to the environment according to the European community's Directive.
V	Volt	Voltage
mm	Millimeter	Length or size
cm	Centimeter	Length or size
kg	Kilogram	Weight
n_0	No Load Speed	Rotational speed, at no load
... /min	Per Minute	Revolutions per minute
	Direct Current	Type or a characteristic of current

GENERAL MACHINE SAFETY WARNINGS

WARNING! Read all safety warnings, instructions, illustrations and specifications provided with this machine. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.

The term “machine” in the warnings refers to your mains-operated (corded) machine or battery-operated (cordless) machine.

WORK AREA SAFETY

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

ELECTRICAL SAFETY

- Machine plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) machines. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is

earthed or grounded.

- Do not operate the machine in rain or wet conditions. Water entering the machine may increase the risk of electric shock or malfunction that could result in personal injury.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the machine. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a machine outdoors, use an extension cord suitable for outdoor use. Use of cord suitable for outdoor use reduces the risk of electric shock.
- If operating a machine in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a machine. Do not use a machine while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating machines may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the machine. Carrying machines with your finger on the switch or energizing machines that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the machine on. A wrench or a key left attached to a rotating part of the machine may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts. Loose clothes, jewelry 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 machines allow you to become complacent and ignore machine safety principles. A careless action can cause severe injury within a fraction of a second.

MACHINE USE AND CARE

- Do not force the machine. Use the correct machine for your application. The correct machine will do the job better and safer at the rate for which it was designed.
- Do not use the machine if the switch does not turn it on and off. Any machine that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the machine before making any adjustments, changing accessories, or storing machines. Such preventive safety measures reduce the risk of starting the machine accidentally.
- Store idle machines out of the reach of children and do not allow persons unfamiliar with the machine or these instructions to operate the machine. Machines are dangerous in the hands of untrained users.
- Maintain machines and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the machine's operation. If damaged, have the machine repaired before use. Many accidents are caused by poorly maintained machines.
- Keep cutting machines sharp and clean. Properly maintained cutting machines with sharp cutting edges are less likely to bind and are easier to control.
- Use the machine, accessories and machine bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the machine for operations different from those intended could result in a hazardous situation.
- Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the machine in unexpected situations.

BATTERY MACHINE 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 machines 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 a fire.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- Do not use a battery pack or machine that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- Do not expose a battery pack or machine to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
- Follow all charging instructions and do not charge the battery pack or machine outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

IMPORTANT SAFETY INSTRUCTIONS

WARNING! When using electric gardening appliances, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ CAREFULLY BEFORE USE

KEEP FOR FUTURE REFERENCE

DANGER! Do not operate near electrical power lines. The unit has not been designed to provide protection from electric shock in the event of contact with overhead electric lines, Consult local regulations for safe distances from overhead electric power lines and ensure that the operating position is safe and secure before operating the tool.

POLE SAW SAFETY WARNINGS

- Keep all parts of the body away from the saw chain when the pole saw is operating. Before you start the pole saw, make sure the saw chain is not contacting anything. A moment of inattention while operating pole saws may cause entanglement of your clothing or body with the chain.
- Avoid unintentional contact with the stationary saw chain or guide bar rails. These can be very sharp. Always wear gloves and long pants or chaps when handling the pole saw, saw chain, or guide bar.
- Always hold the pole saw with your one hand on the rear handle and your other hand on the front handle. Serious injury to the operator, helpers, and/or bystanders can result from one-handed operation.
- Hold the machine by insulated gripping surfaces only, because the saw chain may contact hidden wiring. Saw chains contacting a “live” wire may make exposed metal parts of the machine “live” and could give the operator an electric shock.
- Wear safety glasses and hearing protection. Further protective equipment for head, hands, legs and feet is recommended. Adequate protective clothing will reduce personal injury by flying debris or accidental contact with the saw chain.
- Do not operate a pole saw in a tree. Operation of a pole saw while up in a tree may result in personal injury.
- Always keep proper footing and operate the pole saw only when standing on fixed, secure and level surface. Slippery or unstable surfaces such as ladders may cause a loss of balance or control of the pole saw.
- Never operate a pole saw that is damaged or improperly adjusted or that is not completely and securely assembled. Be sure that the saw chain stops moving when the trigger switch is released.
Inspect the work piece for nails, wire, or other foreign objects prior to cutting.
- When cutting a limb that is under tension be alert for spring back. When the tension in the wood fibers is released the spring loaded limb may strike the operator and/or throw the pole saw out of control.
- Use extreme caution when cutting brush and saplings. The slender material may catch the saw chain and be whipped toward you or pull you off balance.
- Aggressive or abusive cutting or misuse of the pole saw can cause premature bar, chain, and/ or sprocket wear, as well as broken chain or bar, leading to kickback, chain throw or the ejection of material.

- Never use the guide bar as a lever. A bent guide bar can cause premature bar, chain, and/or sprocket wear, as well as a broken chain or bar, leading to kickback, chain throw or the ejection of material.
- Carry the pole saw with two hands on the handles, with the pole saw switched off. When transporting or storing the pole saw always fit the guide bar cover. Proper handling of the pole saw will reduce the likelihood of accidental contact with the moving saw chain.
- Do not remove cut material or hold material to be cut when blades are moving. Make sure the switch is off when clearing jammed material. Saw chain continues to move after the switch is turned off. A moment of inattention while operating the pole pruner may result in serious personal injury.
- Follow instructions for lubricating, chain tensioning and changing accessories. Improperly tensioned or lubricated chain may either break or increase the chance for kickback. Keep cutting edge sharp and clean for best performance and to reduce the risk of injury.
- Keep handles dry, clean, and free from oil and grease. Greasy, oily handles are slippery causing loss of control.
- Cut wood only. Do not use pole saw for purposes not intended. For example: do not use pole saw for cutting plastic, masonry or non-wood building materials. Use of the pole saw for operations different than intended could result in a hazardous situation.
- Do not use the pole saw in bad weather conditions, especially when there is a risk of lightning. This decreases the risk of being struck by lightning.
- Stop the motor and remove the battery pack whenever you leave the tool.
- Store Idle Appliances Indoors. When not in use, appliances should be stored indoors in a dry and high or locked-up place with the battery pack removed, out of reach of children.
- Check Damaged Parts. Before further use of the product, 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, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless indicated elsewhere in this manual.

ADDITIONAL WARNINGS

- Do not charge the battery pack in rain, or in wet locations.
- Use only with battery packs and chargers listed in fig.A
- The battery pack must be removed from the appliance before it is scrapped.
- The battery shall be disposed of safely.
- Do not dispose of the battery in a fire. The cells may explode. Check with local codes for possible special disposal instructions.

Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed. CAUTION! The electrolyte is a dilute sulfuric acid that is harmful to the skin and eyes. It is electrically conductive and corrosive.

- Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
- Battery tools do not have to be plugged into an electrical outlet; therefore, they are always in operating condition. Be aware of possible hazards even when the tool is not operating. Take care when performing maintenance or service.
- Remove the battery pack before servicing, cleaning or removing material from the tool.
- Replacement Parts – When servicing, use only identical EGO replacement parts. Use of any other accessory or attachment may increase the risk of injury.
- Do not wash with a hose; avoid getting water in motor and electrical connections.
- If situations occur that are not covered in this manual, use care and good judgment. Contact the EGO Service Center for assistance.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you lend this tool to someone else, also lend these instructions to them to prevent misuse of the product and possible injury.

SAVE THESE INSTRUCTIONS

NOTE: SEE YOUR POWER HEAD OPERATOR'S MANUAL FOR ADDITIONAL SPECIFIC SAFETY RULES.

SPECIFICATIONS

Guide Bar Length	250 mm
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Chain Pitch	9.5 mm
Chain Gauge	1.1 mm
Saw Chain Type	AC1000/AC1001
Guide Bar Type	AG1000/AG1001
Chain Oil Tank Capacity	220 ml
Recommended Operating Temperature	-15°C-40°C

Recommended Storage Temperature	-20°C-70°C
Weight (with chain sheath)	1.89 kg
Measured sound power level LWA	101.4 dB(A) K=2.36 dB(A) (PH1400E)
	103.6 dB(A) K=0.67 dB(A) (PH1420E)
	101 dB(A) K=2.3 dB(A) (PHX1600)
Sound pressure level at operator's ear LPA	87.0 dB(A) K=3 dB(A) (PH1400E)
	89.7 dB(A) K=3 dB(A) (PH1420E)
	93 dB(A) K=3 dB(A) (PHX1600)
Guaranteed sound power level LWA (measured according to 2000/14/EC)	104 dB(A)

Valuation of vibration ah :	Front-assist handle	2.1 m/s ² K=1.5 m/s ² (PH1400E)
		3.54 m/s ² K=1.5 m/s ² (PH1420E)
		4.47 m/s ² K=1.5 m/s ² (PHX1600)
	Rear handle	2.5 m/s ² K=1.5 m/s ² (PH1400E)
		2.64 m/s ² K=1.5 m/s ² (PH1420E)
		1.93 m/s ² K=1.5 m/s ² (PHX1600)

- The above parameters are tested and measured equipped with power head PH1400E/PH1420E/PHX1600.
- The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another;
- The declared vibration total value may also be used in a preliminary assessment of exposure.
- NOTICE: The vibration emission during actual use of the power tool can differ from the declared value in which the tool is used; In order to protect the operator, user should wear gloves and ear protectors in the actual conditions of use.

PACKING LIST

PART NAME	QUANTITY
Pole Saw Attachment	1
Chain Sheath	1

Dual-head Wrench	1
Operator's Manual	1

Recommended Bar and Chain for this Pole Saw

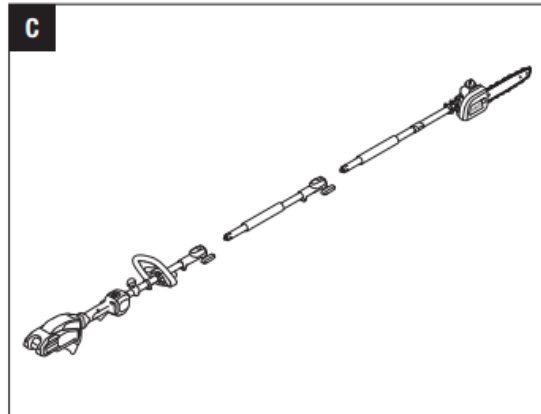
PART NAME	MODEL NUMBER
Guide Bar	AG1000/AG1001
Saw Chain	AC1000/AC1001

DESCRIPTION

KNOW YOUR POLE SAW ATTACHMENT (Fig. A)

1. End Cap
2. Soft Sleeve
3. Pole-saw Shaft
4. Dual-head Wrench
5. Wrench Holder
6. Cover-screw
7. Chain-sprocket Cover
8. Extension Pole (Optional, SOLD SEPARATELY)
9. Chain Sheath
10. Saw Chain
11. Guide Bar
12. Chain-tensioning Screw
13. Oil-tank Cap
14. Oil Tank
15. Bucking Spikes

- The extension pole extends the cutting range. It should to be connected between the power head and the pole saw attachment.
- Follow the process in the section “CONNECTING THE POLE SAW ATTACHMENT TO THE POWER HEAD “to install and secure the extension pole between the pole saw attachment and power head (Fig. C).



- **WARNING:** Failure to secure the attachment and power head/extension pole as instructed above could result in serious injury or death.
- **WARNING:** Never attach or adjust any attachment while the power head is running or with the battery installed. Failure to stop the motor and remove the battery may cause serious personal injury.

OPERATION

- **DANGER:** Never cut near power lines, electric cords, or other electric sources. If the bar and chain jams on any electrical cord or line, **DO NOT TOUCH THE BAR, CHAIN OR THE ALUMINUM POLE! THEY CAN BECOME ELECTRICALLY LIVE AND MAY BE VERY DANGEROUS.** Continue to hold the pole saw by the insulated rear handle or lay it down and away from you in a safe manner. Disconnect the electrical service to the damaged line or cord before attempting to free the bar and chain from the line or cord. Contact with the bar, chain, other conductive parts of the pole saw, or live electric cords or lines could result in death by electrocution or serious injury.
- **WARNING:** Do not allow familiarity with this product to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.
- **WARNING:** Always wear eye protection, along with hearing protection. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.
- Before each use, inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps and do not

operate this product until all missing or damaged parts are replaced.

- **WARNING:** To prevent serious personal injury, remove the battery pack from the tool before servicing, cleaning, changing attachments or removing material from the unit.

APPLICATIONS

You may use this product for the purpose listed below:

- Limbing
- Pruning

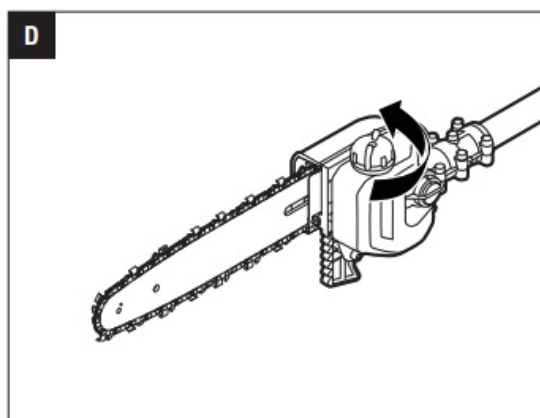
NOTICE: The tool is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse.

FILLING OILTANK WITH BAR AND CHAIN LUBRICANT

WARNING: Do not smoke or bring any fire or flame near the oil or the pole saw. Oil may spill and cause a fire.

NOTICE: The pole saw is not filled with oil at the time of purchase. It is essential to fill the tank with chain oil before use. Chain life and cutting capacity depend on optimum lubrication. The chain is automatically lubricated with chain oil during operation. Oil level should also be checked after every 20 minutes of use and refilled as needed.

1. Remove the battery pack from the power head.
2. Clean the oil tank cap and the area around it to ensure that no dirt falls into the oil tank.
3. Place the pole saw attachment upright and rotate the oil tank cap counterclockwise to remove it (Fig. D).



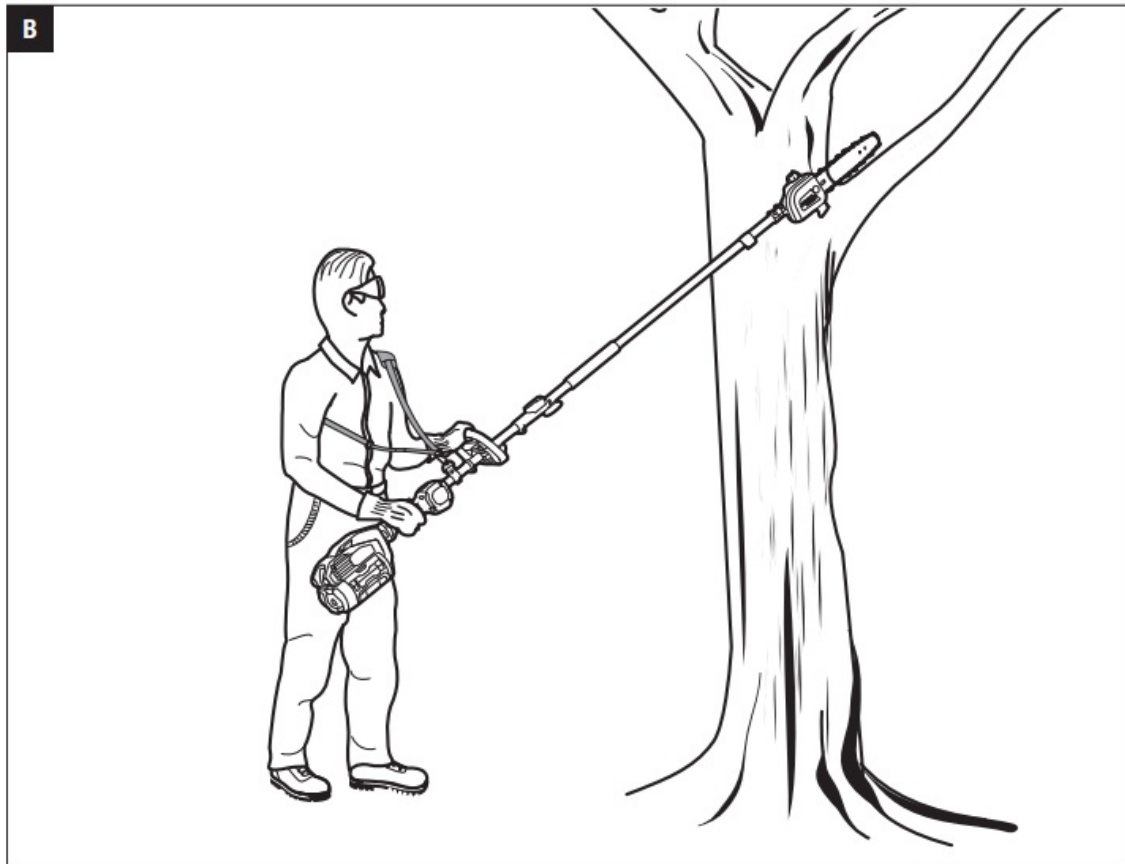
4. Carefully pour the bar and chain oil into the tank until it fills to the tank neck. Be

careful not to let the oil spill from the opening. Wipe off any excess oil and close the oil tank cap.

NOTICE:

Do not use dirty, used or other contaminated oils. Damage may occur to the bar or chain.

PREPARATION FOR CUTTING (Fig. B)



Refer to “Important Safety Instructions” earlier in this manual for appropriate safety equipment.

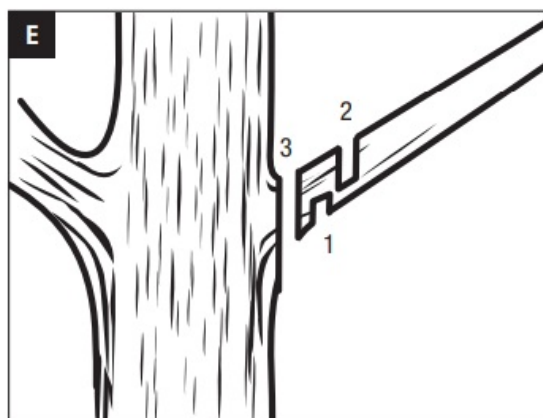
- Lift the tip of the guide bar to check for any sagging in the chain. The chain is correctly tensioned when there is no sag on the underside of the guide bar and the chain is snug, but it can be turned by hand without binding. If the tension requires adjustment, refer to the “REPLACING THE BAR AND CHAIN” section in the
- MAINTENANCE section of this manual for adjustment instructions.
- Check the tension of the cover screw before use. If it is loose, securely tighten the cover screw by turning it clockwise.

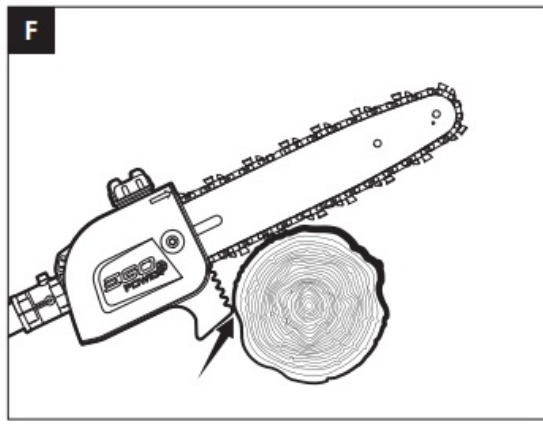
- Check the sharpness of cutting teeth on the saw chain and make sure the chain is well lubricated.
- Wear non-slip gloves for maximum grip and protection. Never stand directly under the limb you are cutting. Make sure that you have a secure and balanced footing. Watch out for obstacles such as tree stumps, roots and ditches, which could cause you to trip or stumble.
- Maintain a proper grip on the unit whenever the motor is running. Hold the unit firmly with both hands.
- For safe and better operation, put on the shoulder strap across the shoulder. Adjust the shoulder strap into a comfortable operating position. Following the instructions in the section “MOUNTING THE SHOULDER STRAP” in PH1400E/PH1420E/PHX1600 operator’s manual to attach the shoulder strap onto the power head.
- **WARNING:** The shoulder strap is also a quick release mechanism in hazardous situation. When an emergency occurs, take it off your shoulder immediately, no matter what way the strap is in.

TO START/STOP THE TOOL

See “STARTING/STOPPING THE POWER HEAD” section in the power head PH1400E/PH1420E/PHX1600 operator’s manual.

BASIC CUTTING PROCEDURE (Fig. E & F)





Follow the steps below to prevent damage to tree or shrub bark. Do not use a back-and-forth sawing motion.

1. Make a shallow first cut ($\frac{1}{4}$ of limb diameter) on the underside of the limb close to the main limb or trunk.
2. Make a second cut from the top side of the limb outboard from the first cut. Continue the cut through the limb until the limb separates from the tree. Be prepared to balance the weight of the tool when the limb falls.
3. Make a final cut close to trunk.

NOTICE: For second and final cuts (from top of limb or branch), hold the bucking spikes against the limb being cut (Fig. F). This will help steady the limb and make it easier to cut with light downward pressure. If you force the cut, damage to the bar, chain, or motor can result in.

4. Release the trigger on the power head as soon as the cut is completed.

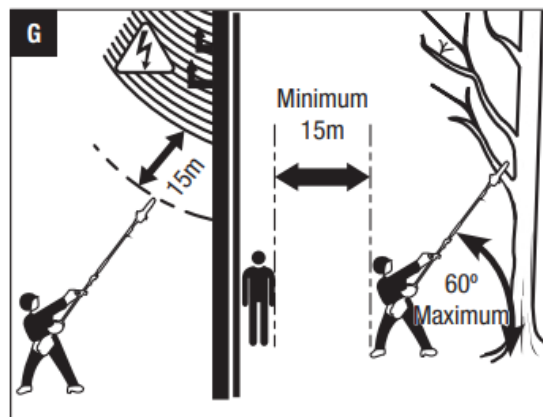
NOTICE: Failure to follow proper cutting procedures will result in the bar and chain binding and becoming pinched or trapped in the limb. If this should happen:

1. Stop the motor and remove the battery pack.
2. If the limb can be reached from the ground, lift the limb while holding the saw. This should release the “pinch” and free the saw.
3. If the saw is still trapped, call a professional for assistance.

LIMBING AND PRUNING

This pole saw attachment is designed for trimming small branches and limbs up to 20cm in diameter. For best results, observe the following precautions.

1. Plan the cut carefully. Be aware of the direction in which the branch will fall.
WARNING: Branches may fall in unexpected directions. Do not stand directly under the branch being cut.
2. The most typical cutting application is to position the unit at an angle of 60° or less (Fig. G). As the angle of the pole saw shaft to the ground increases, the difficulty of making the first cut (from the underside of limb) increases.
3. Remove long branches in several stages.
4. Cut lower branches first to allow the top branches more room to fall.
5. Work slowly, keeping both hands on the saw with a firm grip. Maintain secure footing and balance.
6. Do not cut from a ladder; this is extremely dangerous. Leave such operations for professionals.
7. Do not make the flush cut next to the main limb or trunk until you have cut off much of limb to reduce the weight. Following proper cutting procedures will prevent stripping the bark from the main member.
8. Do not use the pole saw for felling or bucking.
9. To prevent electrocution, do not operate within 15m of overhead electrical lines and keep bystanders at least 15m away (Fig. G).



MAINTENANCE

WARNING: Before inspecting, cleaning or servicing the unit, stop the motor, wait for all moving parts to stop, and remove the battery pack. Failure to follow these instructions can result in serious personal injury or property damage.

WARNING: When servicing, use only identical replacement parts. Use of any other parts can create a hazard or cause product damage. To ensure safety and reliability, all repairs, other than the items listed in these maintenance instructions, should be

performed by a qualified service technician.

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

CLEAN THE UNIT

- After each use, remove the battery and clean debris from the chain and guide bar with a soft brush. Wipe the pole saw surface with a clean cloth moistened with a mild soap solution.
- Remove the chain-sprocket cover, and then use a soft brush to remove debris from the guide bar, saw chain, sprocket and chain-sprocket cover.
- Always clean out wood chips, saw dust, and dirt from the guide bar groove when replacing the saw chain.
- NOTICE: Do not use any strong detergents on the plastic housing or the handle. They can be damaged by certain aromatic oils such as pine and lemon.

REPLACING THE BAR AND CHAIN

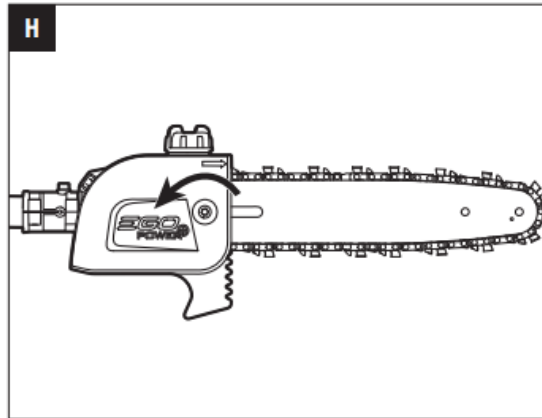
WARNING: Never touch or adjust the chain while the motor is running. The saw chain is very sharp; always wear protective gloves when performing maintenance to the chain.

NOTICE: When replacing the guide bar and chain, always use the specified bar and chain combination listed in the “Recommended Bar and Chain for this Pole Saw” section.

Disassembling the Worn Bar and Chain

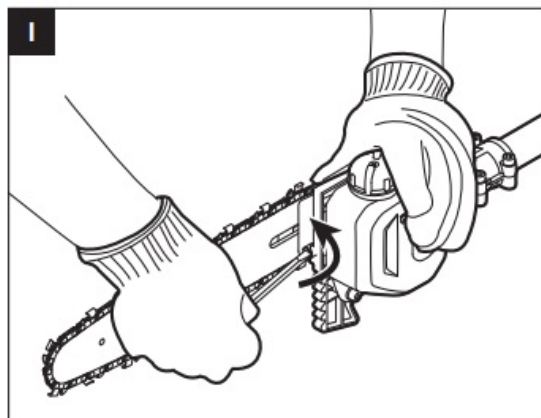
1. Remove the battery, allow the pole saw to cool and tighten the oil tank cap.
2. Position the pole saw attachment on its side with the chain-sprocket cover is facing upwards.
3. Wear gloves. Using the dual-head wrench provided, loosen the cover screw to remove the screw and the chain-sprocket cover. Clean the chain-sprocket cover with a dry cloth and save it for reassembly (Fig. H).

4. Remove the bar and chain from the mounting surface. Remove the worn chain from the bar.



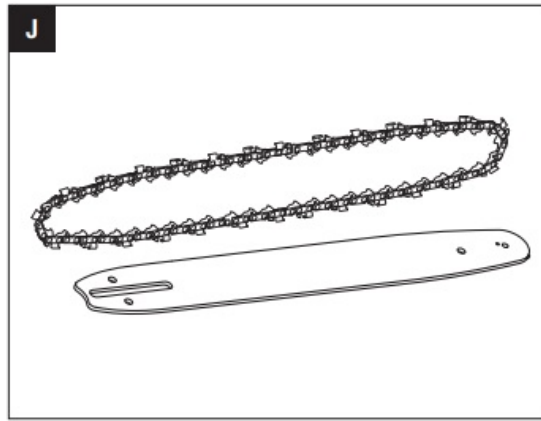
NOTICE: If there is difficulty in removing the bar and chain from the mounting surface, place the pole saw upright, with one hand support the bar, to loosen the chain-tensioning screw counterclockwise with the other hand (Fig. I) and then remove the bar with the chain.

NOTICE: This is a good time to inspect the drive sprocket for excessive wear or damage.



Assembling the New Bar and Chain

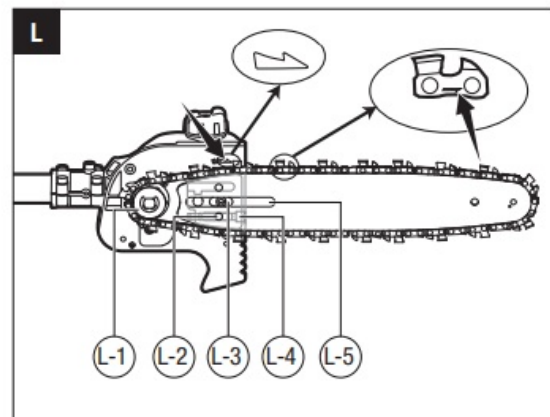
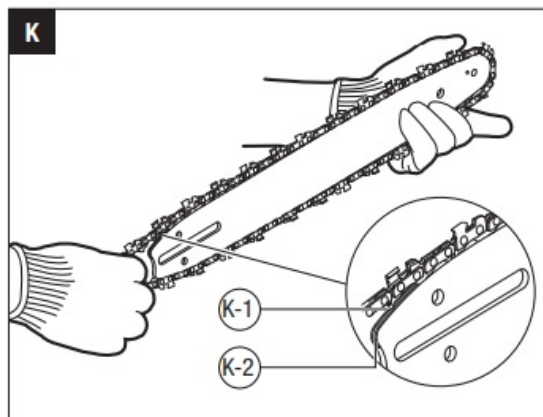
1. Lay the new saw chain in a loop on a flat surface and straighten any kinks (Fig. J).



2. Place the chain drive links into the guide bar groove. Position the chain so there is a loop at the back of the guide bar (Fig. K).

Fig. K parts description see below:

K-1	Chain Drive Links
K-2	Guide-bar Groove



3. Hold the chain in position on the guide bar and place the loop around the sprocket of the pole saw.

NOTICE: Small directional arrows are engraved in the saw chain. Another directional arrow is molded into the tool body (Fig. L). When looping the saw chain onto the sprocket, make sure that the direction of the arrows on the saw chain will CORRESPOND to the direction of the arrow on the tool body. If they face in opposite directions, turn over the saw chain and guide bar assembly (Fig. M).

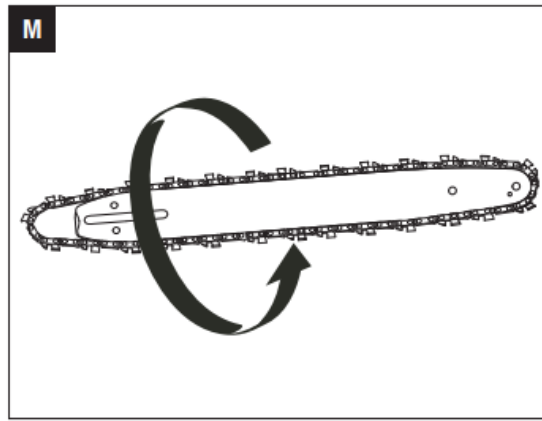


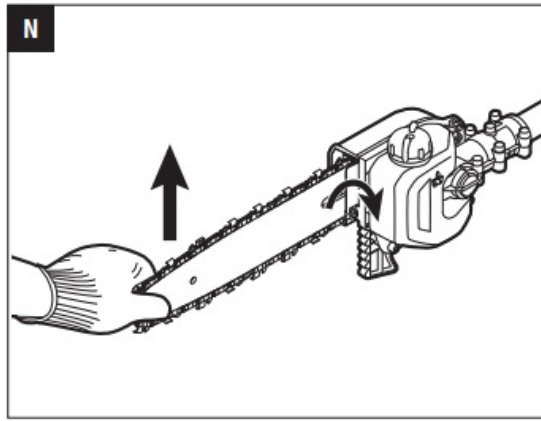
Fig. L parts description see below:

L-1	Sprocket
L-2	Tension-adjusting Pin
L-3	Alignment Bulges
L-4	Chain-tensioning Screw
L-5	Guide-bar Slot

- Place the guide bar on the mounting surface by sliding the guide bar slot over the alignment bulges, making sure that the tension adjusting pin is inserted in the lower hole in the tail of the bar (Fig. L).

NOTICE: If there is difficulty in inserting the tension adjusting pin into the hole, adjust the chain-tensioning screw properly until the tension adjusting pin is located exactly in the hole.

- Replace the chain-sprocket cover and the cover screw. Slightly tighten them.
- Remove all the slack from the chain by turning the chain-tensioning screw clockwise until the chain seats snugly against the guide bar with the drive links in the guide bar groove and lift the tip of the guide bar to check for sag. Release the tip of the guide bar and turn the chain-tensioning screw once clockwise. Repeat this process until the sag is eliminated (Fig. N).



7. Hold the tip of the guide bar up and tighten the chain-sprocket-cover screw securely.

NOTICE: To extend the guide bar life, invert the bar occasionally.

NOTICE: If chain is too tight, it will not rotate. Loosen the chain-sprocket-cover screw slightly and turn the tensioning screw 1/4 turn counterclockwise. Lift the tip of the guide bar and retighten the chain-sprocket-cover screw securely. Assure that the chain will rotate without binding.

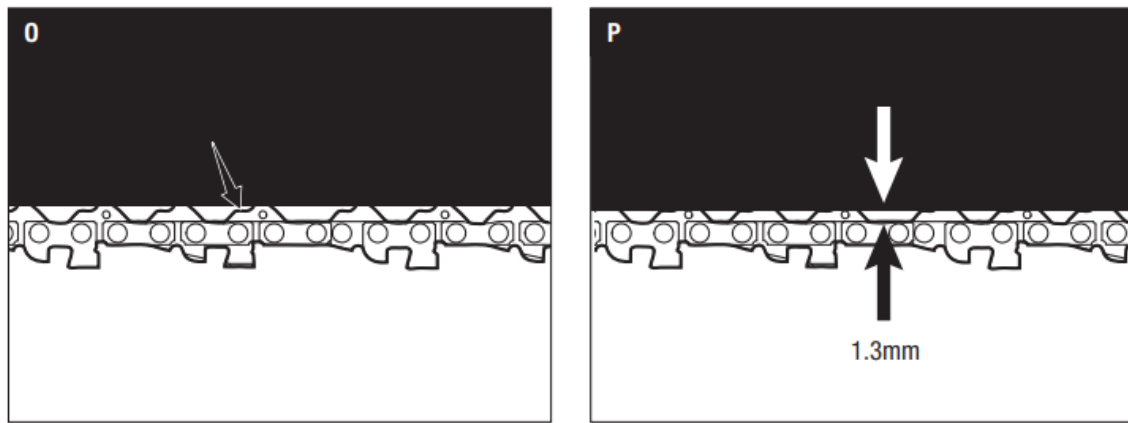
ADJUSTING THE CHAIN TENSION

CAUTION: The saw chain must be properly tensioned before using.

1. Stop the motor and remove the battery pack before adjusting the chain tension.
Loosen the cover screw to finger tight.
2. Turn the chain-tensioning screw clockwise to tension the chain. See the “REPLACING THE BAR AND CHAIN” section in this manual for additional information.

A cold chain is correctly tensioned when there is no slack on the underside of the guide bar and the chain is snug, but it can be turned by hand without binding. The chain must be re-tensioned whenever the flats on the drive links do not sit in the bar groove (Fig. O).

During normal saw operation, the temperature of the chain will increase. The drive links of a correctly tensioned warm chain will hang approximately 1.3mm out of the bar groove (Fig. P).



NOTICE: New chains tend to stretch; check chain tension frequently and tension as required.

NOTICE: A chain tensioned while it is warm may be too tight upon cooling. Check the cold tension before next use.

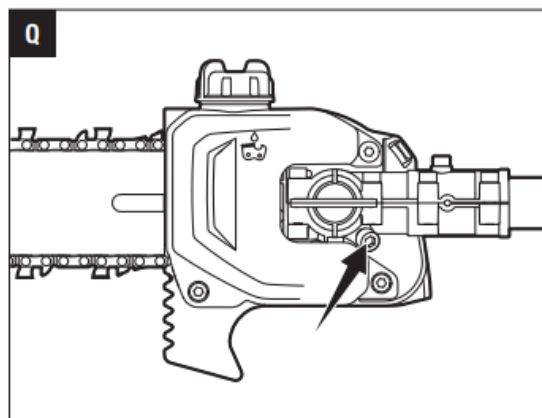
TRANSMISSION GEARS LUBRICATION

The transmission gears in the gear case need be lubricated periodically with gear grease. Check the gear case grease level about every 50 hours of operation by removing the sealing screw on the side of the case.

If no grease can be seen on the flanks of the gear, follow the steps below to fill with gear grease up to 3/4 capacity.

Do not completely fill the transmission gears.

1. Position the pole saw attachment on its side with sealing screw facing upwards (Fig. Q).



2. Use the dual-head wrench provided to loosen and remove the injection screw.
3. Use a grease syringe (not included) to inject some grease into the screw hole; do not exceed 3/4 capacity.

4. Tighten the sealing screw after injection. SPROCKET IN GUIDE BAR LUBRICATION

The guide bar has a sprocket at its tip. It must be lubricated weekly with chain oil injected into the lubricating hole by a grease syringe (not included) to extend the guide bar life (Fig. R). Turn the guide bar and check that the lubrication holes and chain groove are free from impurities.

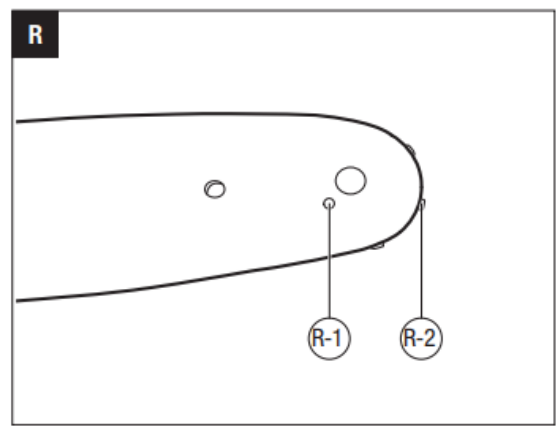


Fig. R parts description see below:

R-1	Lubricating Hole
R-2	Sprocket in Guide-bar Tip

TRANSPORTING AND STORING

1. Do not store or transport the pole saw attachment when it is running. Always remove the battery pack before storing or transporting.
2. Always place the guide bar sheath on the guide bar and chain before storing or transporting the pole saw attachment. Use caution to avoid the sharp teeth of the chain.
3. Clean the pole saw thoroughly before storing. Store the pole saw indoors, in a dry place that is locked and/or inaccessible to children and keep away from corrosive agents such as garden chemicals and de-icing salts.
4. If the pole saw attachment is removed from the power head and stored separately, fit the end cap on the attachment shaft to avoid dirt getting into the coupler.

Protecting the environment

Do not dispose of electrical equipment, used battery and charger into household waste! Take this product to an authorized recycler and make it available for separate collection. Electric machines must be returned to an environmentally compatible recycling facility.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Motor does not run.	<ul style="list-style-type: none"> ■ The battery pack is not attached to the pole saw. ■ No electrical contact between the saw and battery. ■ The battery pack is depleted. ■ The lock-off button is not depressed before pressing the trigger. ■ The battery pack or power head is too hot. ■ Saw chain is bound in the wood. ■ Debris in bar groove. ■ Debris in chain-sprocket cover. 	<ul style="list-style-type: none"> ■ Attach the battery pack to the pole saw. ■ Remove battery, check contacts and reinstall the battery pack. ■ Charge the battery pack. ■ Press down the lock-off lever and hold it, then depress the trigger to turn on the pole saw. ■ Allow the battery pack or power head to cool until the temperature drops below 67°C. ■ Release the trigger, remove the saw chain and guide bar from the wood, then restart the pole saw. ■ Press the saw chain against the wood, move the pole saw back and forth to discharge the debris. ■ Remove battery pack, then remove chain-sprocket cover and clean out debris.
Motor runs, but chain does not rotate.	<ul style="list-style-type: none"> ■ Chain does not engage drive sprocket. 	<ul style="list-style-type: none"> ■ Remove the battery pack and reinstall the chain, making sure that the drive links on the chain are fully seated on the sprocket.
Pole saw does not cut properly.	<ul style="list-style-type: none"> ■ Insufficient chain tension. ■ Dull chain. ■ Chain installed backwards. ■ Worn chain. ■ Dry or excessively stretched chain. ■ Chain not in bar groove. 	<ul style="list-style-type: none"> ■ Remove the battery pack and readjust the chain tension, following the section "ADJUSTING THE CHAIN TENSION". ■ Sharpen the chain cutters by a qualified service technician. ■ Remove the battery pack and reinstall the saw chain, following the section "REPLACING THE BAR AND CHAIN". ■ Remove the battery pack and replace the chain following the section "REPLACING THE BAR AND CHAIN". ■ Check the oil level. Refill the oil tank if necessary. ■ Remove the battery pack and reinstall the saw chain, following the section "REPLACING THE BAR AND CHAIN".
Bar and chain running hot and smoking.	<ul style="list-style-type: none"> ■ Check chain tension for over tightened condition. ■ Chain oil tank is empty. ■ Debris in guide bar groove. 	<ul style="list-style-type: none"> ■ Remove the battery pack and re-tension the saw chain; see the section "ADJUSTING THE CHAIN TENSION". ■ Filling bar and chain lubricant. ■ Clear the debris in the groove.


WARRANTY

EGO WARRANTY POLICY

Please visit the website egopowerplus.eu for full terms and conditions of the EGO

Warranty policy.

Documents / Resources



[EGO PSA1000 Multi Tool Chainsaw Adapter \[pdf\]](#) Instruction Manual
PH1400E, PH1420E, PHX1600, PSA1000 Multi Tool Chainsaw Adapter, P
SA1000, Multi Tool Chainsaw Adapter, Tool Chainsaw Adapter, Chainsaw
Adapter

References

- [User Manual](#)

EGO

Chainsaw Adapter, EGO, Multi Tool Chainsaw Adapter, PH1400E, PH1420E, PHX1600, PSA1000, PSA1000 Multi Tool Chainsaw Adapter, Tool Chainsaw Adapter

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