



DAEWOO
POWER PRODUCTS

DALMT62BL

Lithium multi-head / Taille-haie multi-têtes au lithium

USER'S MANUAL / MANUEL DE L'UTILISATEUR

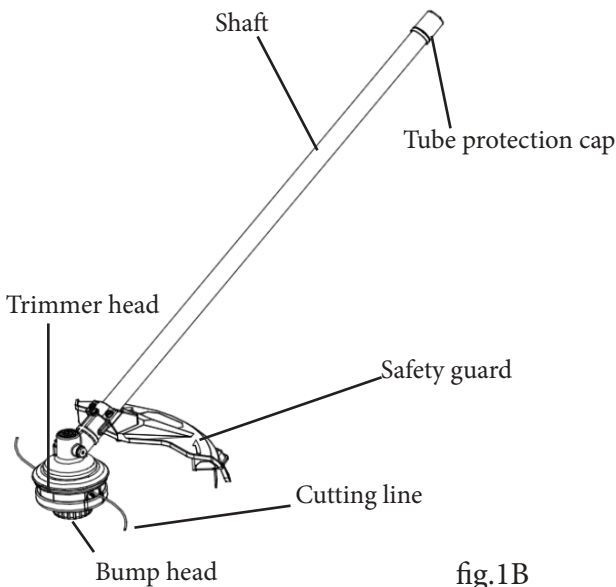
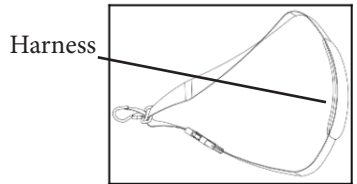
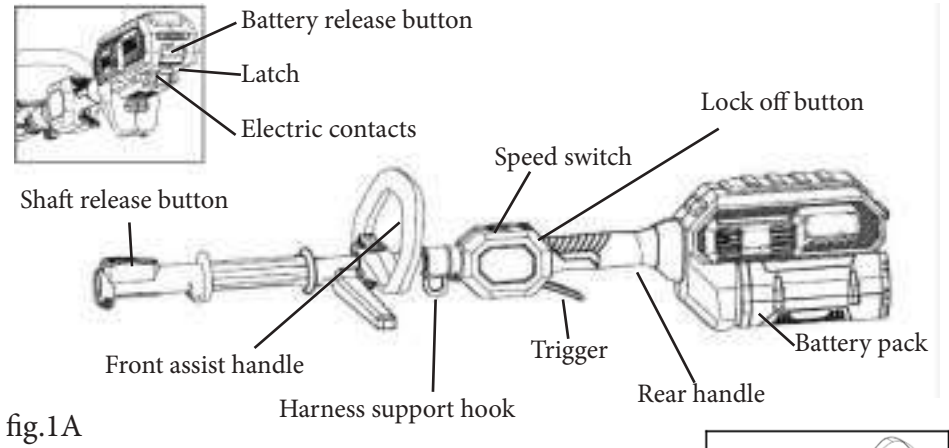
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1. PARTS DIAGRAM



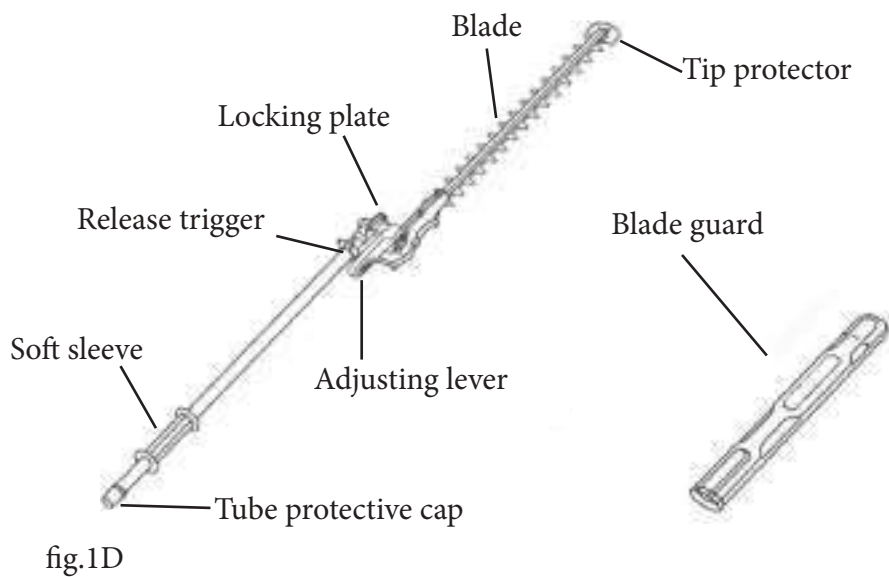
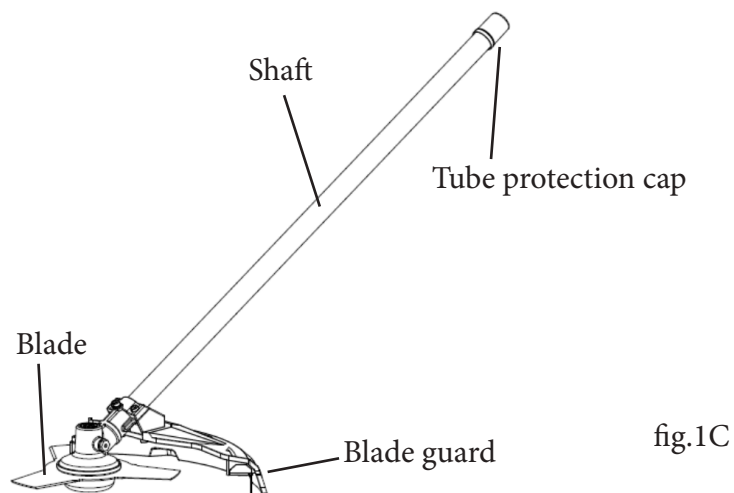
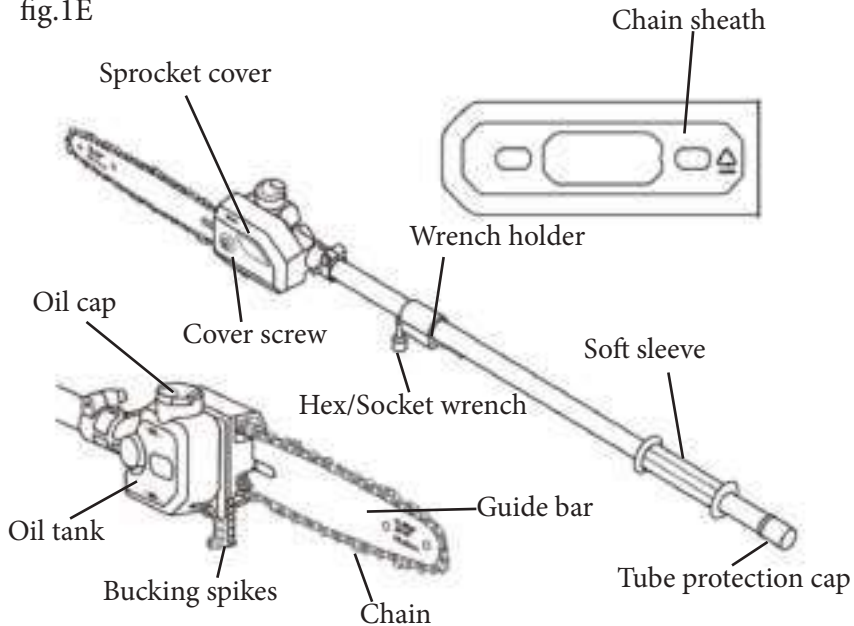


fig.1E



2. TECHNICAL DATA

Rated voltage: 62V d.c Max
 MAX No load speed: 6000 /min

Grass trimmer

Cutting line type: Ø 0.09 in. (2.3 mm) nylon spiral line
 Cutting width: 406 mm
 Cutting speed: 3700-6000 /min
 Mass: 5.1 kg

Pole Hedge Trimmer

Blade Length: 508 mm
 Cutting speed: 2100-3400 spm
 Mass: 7.2 kg

Brush cutter

Blade Size: 3 teeth; Φ 254 mm; 1,4 mm thick

Cutting speed: 3700-6000 /min

Mass: 4.9 kg

Pole pruner

Guide bar

and saw chain: **Combination of guide bar and saw chain -1 ():**

Guide bar / Saw chain: 104MLEA041 / 90PX040X;
made by OREGON

Combination of guide bar and saw chain -2:

Guide bar / Saw chain: 084MLEA041 / 90PX033X;
made by OREGON

Combination of guide bar and saw chain -3:

Guide bar / Saw chain: ES104MLEA041 / 90XP40E;
made by E&S

Combination of guide bar and saw chain -4:

Guide bar / Saw chain: ES084MLEA04 / 90XP33E;
made by E&S

Combination of guide bar and saw chain -5:

Guide bar / Saw chain: LG104P040A7 / A0PK2-40DL;
made by Longer

Combination of guide bar and saw chain -6:

Guide bar / Saw chain: LG084PO33A7 / A0PK2-33DL; made by Longer

Bar length: 8 in or 10 in

Cutting speed: Max. 15 m/s

Chain pitch: 3/8" LP

Chain gauge: 0.043"

Oil tank capacity: 150 ml (5 oz.)

Net weight (with extension tube and battery pack): 7.5 kg

Grass trimmer

Sound pressure level at the operator's position: 75dB(A) K=3dB(A)

Measured sound power level: 90.88 dB(A) K=1.6 dB(A)

Guaranteed Sound Power Level: 96dB(A)

Vibration: 1.5 m/s² K=1.5 m /s²

Pole hedge trimmer

Sound pressure level at the operator's position: 81.9 dB(A) K=3 dB(A)

Measured sound power level: 89.91dB(A) K=1.74 dB(A)

Guaranteed Sound Power Level: 92dB(A)

Vibration: 1.45 m/s² K=1.5 m/s²

Pole pruner

Sound pressure level at the operator's position: 83.1 dB(A); K= 3 dB(A)

Measured sound power level: 94.09 dB(A); K=1,18 dB(A)

Guaranteed Sound Power Level: 95 dB(A)

Vibration: 1.6 m/s²; K=1.5 m/s²

Brush cutter

Sound pressure level at the operator's position: 76dB(A) K=3dB(A)

Measured sound power level: 88.13 dB(A) K=1.56 dB(A)

Guaranteed Sound Power Level: 90dB(A)

Vibration: 1.6 m/s² K=1.5 m/s²

NOISE and Vibration

The declared vibration total value and the declared noise emission value have been measured in accordance with a standard test method and may be used for comparing one tool with another.

The declared vibration total value and the declared noise emission value may also be used in a preliminary assessment of exposure.



WARNING: The vibration and noise emissions during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used especially what kind of workpiece is processed dependant on the following examples and other variations on how the tool is used:

How the tool is used and the materials being cut or drilled.



The tool being in good condition and well maintained.

The use of the correct accessory for the tool and ensuring it is sharp and in good condition.

The tightness of the grip on the handles and if any anti vibration and noise accessories are used.

And the tool is being used as intended by its design and these instructions.

This tool may cause hand-arm vibration syndrome if its use is not adequately managed.



WARNING: To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Helping to minimise your vibration and noise exposure risk.

Always use sharp chisels, drills and blades.

Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate).

If the tool is to be used regularly then invest in anti vibration and noise accessories.

Plan your work schedule to spread any high vibration tool use across a number of days.

3. SYMBOLS MARKED ON THE PRODUCT



WARNING!



Read the operator's manual



Wear head, eye and ear protection



Danger-Keep hands away from the blade



Do not expose to rain



To reduce the risk of your hands, please wear gloves!



Wear non-slip safety footwear when using the product



WARNING-Beware of thrown objects.



Keep bystanders away



DANGER!

Keep sufficient distance away from electrical power lines.



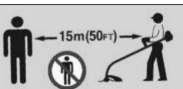
WARNING-Disconnect battery before maintenance



Beware of blade thrust



This unit is not intended for use with a toothed saw type blade



Keep bystanders 15m away

**WARNING**

Disconnect battery before maintenance



Your tool noise is not more than XXdB



WEEE marking.

CAUTION! Unusable power tools do not belong with domestic waste. They must be taken to a communal collecting point for environmentally friendly disposal in accordance with local regulations

4. GENERAL SAFETY RULES

General Power Tool Safety Warnings

**WARNING!**

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. 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 mains-operated (corded) power tool or battery operated (cordless) power tool.

4.1 Work area safety

- a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- b) 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.
- c) Keep children and bystanders away while operating a power tool.

Distractions can cause you to lose control.

4.2 Electrical safety

- a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) 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.
- c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

4.3 Personal safety

- a) 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 moment of inattention while operating power tools may result in serious person- or injury.
- b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) 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 tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

- d) 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.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- g) 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.
- h) 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.

4.4 Power tool use and care

- a) 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.
- b) 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.
- c) 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.
- d) 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.
- e) 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.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to con-

trol.

- g) 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.
- h) 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 tool in unexpected situations.

4.5 Battery tool use and care

- a) 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.
- b) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- c) 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.
- d) 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.
- e) Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- f) Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
- g) Follow all charging instructions and do not charge the battery pack or tool 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.

4.6 Service

- a) 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.

b) Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers

4.7 Grass Trimmer and Brush Cutter Safety Warnings

a) Do not use the machine in bad weather conditions, especially when there is a risk of lightning. This decreases the risk of being struck by lightning.

b) Thoroughly inspect the area for wildlife where the machine is to be used. Wildlife may be injured by the machine during operation.

c) Thoroughly inspect the area where the machine is to be used and remove all stones, sticks, wires, bones, and other foreign objects. Thrown objects can cause personal injury.

d) Before using the machine, always visually inspect to see that the cutter or blade and the cutter or blade assembly are not damaged. Damaged parts increase the risk of injury.

e) Follow instructions for changing accessories. Improperly tightened blade securing nuts or bolts may either damage the blade or result in it becoming detached.

f) The rated rotational speed of the blade must be at least equal to the maximum rotational speed marked on the machine. Blades running faster than their rated rotational speed can break and fly apart.

g) Wear eye, ear, head and hand protection. Adequate protective equipment will reduce personal injury by flying debris or accidental contact with the cutting line or blade.

h) While operating the machine, always wear safety footwear. Do not operate the machine when barefoot or wearing open sandals. This reduces the chance of injury to the feet from contact with a moving cutter, line or blade.

i) While operating the machine, always wear long trousers. Exposed skin increases the likelihood of injury from thrown objects.

j) Keep bystanders away while operating the machine. Thrown debris can result in serious personal injury.

k) Always use two hands when operating the machine. Holding the machine with both hands will avoid loss of control.

l) Hold the machine by the insulated gripping surfaces only, because

se the cutting line or blade may contact hidden wiring. Cutting line or blades contacting a “live” wire may make exposed metal parts of the machine “live” and could give the operator an electric shock.

m) Always keep proper footing and operate the machine only when standing on the ground. Slippery or unstable surfaces may cause a loss of balance or control of the machine.

n) Do not operate the machine on excessively steep slopes. This reduces the risk of loss of control, slipping and falling which may result in personal injury.

o) When working on slopes, always be sure of your footing, always work across the face of slopes, never up or down and exercise extreme caution when changing direction. This reduces the risk of loss of control, slipping and falling which may result in personal injury.

p) Keep all parts of the body away from the cutter, line or blade when the machine is operating. Before you start the machine, make sure the cutter, line or blade is not contacting anything. A moment of inattention while operating the machine may result in injury to yourself or others.

q) Do not operate the machine above waist height. This helps prevent unintended cutter or blade contact and enables better control of the machine in unexpected situations.

r) When cutting brush or saplings that are under tension, be alert for spring back. When the tension in the wood fibres is released, the brush or sapling may strike the operator and/or throw the machine out of control.

s) Use extreme caution when cutting brush and saplings. The slender material may catch the blade and be whipped toward you or pull you off balance.

t) Maintain control of the machine and do not touch cutters, lines or blades and other

hazardous moving parts while they are still in motion. This reduces the risk of injury from moving parts.

u) Carry the machine with the machine switched off and away from your body. Proper handling of the machine will reduce the likelihood of accidental contact with a moving cutter, line or blade.

v) When transporting or storing the machine, always fit the cover on

metal blades. Proper handling of the machine will reduce the likelihood of accidental contact with the blade.

w) Only use replacement cutters, lines, cutting heads and blades specified by the manufacturer. Incorrect replacement parts may increase the risk of breakage and injury.

x) When clearing jammed material or servicing the machine, make sure the switch is off and the battery pack is removed. Unexpected starting of the machine while clearing jammed material or servicing may result in serious personal injury.

4.8 Blade thrust causes and related warnings

a) Maintain a firm grip with both hands on the machine and position your arms to resist blade thrust. Position your body to the left side of the machine. Blade thrust can increase the risk of injury due to the machine moving unexpectedly. Blade thrust can be controlled by the operator if proper precautions are taken.

b) If the blade binds, or when interrupting a cut for any reason, switch the machine off and hold the machine motionless in the material until the blade comes to a complete stop. While the blade is binding, never attempt to remove the machine from the material or pull the machine backward while the blade is in motion, otherwise blade thrust may occur. Investigate and take corrective actions to eliminate the cause of blade binding.

c) Do not use blunt or damaged blades. Blunt or damaged blades increase the risk of jamming or catching on an object, resulting in blade thrust.

d) Always maintain good visibility of the material being cut. Blade thrust is more likely to occur in areas where it is difficult to see the material being cut.

e) If you are approached by another person while operating the machine, switch the machine off. There is an increased risk of injury to other persons being struck by the moving blade in the event of blade thrust.

4.9 Hedge trimmer safety warnings

a) Keep all parts of the body away from the blade. Do not remove cut material or hold material to be cut when blades are moving. Blades continue to move after the switch is turned off. A moment of inattention while operating the hedge trimmer may result in serious personal injury.

- b) Carry the hedge trimmer by the handle with the blade stopped and taking care not to operate any power switch. Proper carrying of the hedge trimmer will decrease the risk of inadvertent starting and resultant personal injury from the blades.
- c) When transporting or storing the hedge trimmer, always fit the blade cover. Proper handling of the hedge trimmer will decrease the risk of personal injury from the blades.
- d) When clearing jammed material or servicing the unit, make sure all power switches are off and the battery pack is removed or disconnected. Unexpected actuation of the hedge trimmer while clearing jammed material or servicing may result in serious personal injury.
- e) Hold the hedge trimmer by insulated gripping surfaces only, because the blade may contact hidden wiring. Blades contacting a “live” wire may make exposed metal parts of the hedge trimmer “live” and could give the operator an electric shock.
- f) Keep all power cords and cables away from cutting area. Power cords or cables may be hidden in hedges or bushes and can be accidentally cut by the blade.
- g) Do not use the hedge trimmer in bad weather conditions, especially when there is a risk of lightning. This decreases the risk of being struck by lightning.

4.10 Extended-reach hedge trimmer safety warnings:

- a) To reduce the risk of electrocution, never use the extended-reach hedge trimmer near any electrical power lines. Contact with or use near power lines may cause serious injury or electric shock resulting in death.
- b) Always use two hands when operating the extended-reach hedge trimmer. Hold the extended-reach hedge trimmer with both hands to avoid loss of control.
- c) Always use head protection when operating the extended-reach hedge trimmer overhead. Falling debris can result in serious personal injury.

4.11 Pole Saw Safety Warnings

- a) Keep hands away from blades.
- b) Keep all parts of the body away from the 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 extended reach pruner may result in serious personal injury.

c) Carry the extended-reach pruner by the handle with the saw chain stopped. When transporting or storing the extended-reach pruner, always fit the saw chain device cover. Proper handling of the extended-reach pruner will reduce possible personal injury from the saw chain.

d) Hold the extended-reach pruner by insulated gripping surfaces only, because the saw chain may contact hidden wiring. A saw chain contacting a “live” wire may make exposed metal parts of the extended-reach pruner “live” and could give the operator an electric shock.

e) Do not use the extended-reach pruner in bad weather conditions, especially when there is a risk of lightning. This decreases the risk of being struck by lightning.

f) To reduce the risk of electrocution, never use near any electrical power lines. Contact with or use near power lines may cause serious injury or electric shock resulting in death.

g) Always use two hands when operating the extended-reach pruner. Hold the extended-reach pruner with both hands to avoid loss of control.

h) Wear eye protection. Further protective equipment for hearing, hands, legs and feet is recommended. Adequate protective equipment will reduce personal injury from flying debris or accidental contact with the saw chain.

i) Always use head protection when operating the extended-reach pruner overhead. Falling debris can result in serious personal injury.

j) Do not operate a pole saw in a tree, on a ladder, from a rooftop, or any unstable support. Operation of a pole saw in this manner could result in serious personal injury.

k) Always keep proper footing and operate the pole saw only when standing on fixed, secure and level surface. Slippery or unstable surfaces may cause a loss of balance or control of the pole pruner.

l) When cutting a limb that is under tension, be alert for spring back.

When the tension in the wood fibre is released, the spring loaded limb may strike the operator and/or throw the pole pruner out of control.

m) Follow instructions for lubricating, chain tensioning and changing the bar and chain. Improperly tensioned or lubricated chain may either break or increase the chance for kickback.

n) Cut branches only. Do not use pole pruner for purposes not intended. For example: do not use pole pruner for cutting metal, plastic, masonry or non-wood building materials. Use of the pole pruner for operations different than intended could result in a hazardous situation.

o) Keep handles dry, clean and free from oil and grease. Greasy, oily handles are slippery causing loss of control.

Kickback is the result of pole pruner misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

p) Maintain a firm grip, with thumbs and fingers encircling the pole pruner handles, with both hands on the pole pruner and position your body and arm to allow you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the pole pruner.

q) Only use replacement guide bars and pole pruners specified by the manufacturer. Incorrect replacement guide bars and pole pruners may cause chain breakage and/or kickback.

Follow the manufacturer's sharpening and maintenance instructions for the pole pruner. Decreasing the depth gauge height can lead to increased kickback.

4.12 Additional warnings

a) This tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, 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. Children should be supervised to ensure that they do not play with the appliance.

b) When working with the machine, always hold it firmly with both hands and provide for a secure stance. The power tool is guided more secure with both hands.

c) Always ensure all handles and guards are fitted when using the ma-

chine. Never attempt to use an incomplete machine or one fitted with an unauthorized modification.

d) Wait until the machine has come to a standstill before placing it down.

e) Do not open the battery. Danger of short circuiting. Protect the battery against heat, e. g., also against continuous sun irradiation and fire. There is danger of explosion.

f) In case of damage and improper use of the battery, vapors may be emitted. Provide for fresh air and seek medical help in case of complaints. The vapors can irritate the respiratory system.

g) When the battery is defective, liquid can escape and come into contact with adjacent components. Check any parts concerned. Clean such parts or replace them, if required.

h) Use the battery only in conjunction with your power tool. This measure alone protects the battery against dangerous overload.

4.13 Safety warnings for battery chargers

a) Keep the battery charger away from rain or moisture. Penetration of water in the battery charger increases the risk of an electric shock.

b) Do not charge other batteries. The battery charger is suitable only for charging lithium ion batteries within the listed voltage range. Otherwise there is danger of fire and explosion.

c) Keep the battery charger clean. Contamination can lead to danger of an electric shock.

d) Before each use, check the battery charger, cable and plug. If damage is detected, do not use the battery charger. Never open the battery charger yourself. Have repairs performed only by a qualified technician and only using original spare parts. Damaged battery chargers, cables and plugs increase the risk of an electric shock.

e) Do not operate the battery charger on easily inflammable surfaces (e. g., paper, textiles, etc.) or surroundings. The heating of the battery charger during the charging process can pose a fire hazard.

f) Children should be supervised to ensure that they do not play with the battery charger.

SAVE THESE INSTRUCTIONS

5. UNPACKING



WARNING: If any parts are damaged or missing, do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.



WARNING! Before assembly, make sure that the appliance is switched off and the battery is removed.



WARNING! Do not attempt to modify this product or create accessories not recommended for use with this power head.

1. Carefully remove the tool and all accessories from the carton.
2. Inspect the tool carefully to make sure that nothing was damaged during transportation.
3. Once you have confirmed that the tool is complete and working, dispose of all packing materials using responsible recycling and disposal practices.
4. If any parts are damaged or missing, please contact our help line or return the product to the place of purchase.
5. Charge your battery pack fully before operation.

PACKING LIST

- Cordless Power Head
- Front Assist Handle Assembly
- Harness
- Cordless String Trimmer Attachment
- Safety Guard for String Trimmer
- Cordless Hedge Trimmer Attachment
- Blade guard
- Cordless Pole Pruner Attachment
- Chain sheath
- Hex / Socket wrench
- Cordless brush cutter Attachment
- Blade
- Operator's manual

6. ASSEMBLY

WARNING: Always be sure that the tool is switched off and battery pack is removed before carrying out any work on the tool. Failure to switch off and remove the battery pack may result in serious personal injury from accidental start-up.



WARNING: Never start the tool unless it is completely assembled. Operation of the tool in a partially assembled state may result in serious personal injury from accidental start-up.



CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

6.1 Front P shape assistant handle assembly (operation only for grass trimmer, brush cutter and edger)

- Unscrew the locking lever from the front-assist handle. (Fig.2A)
- Position the front-assist handle onto the upper shaft of the trimmer. Ensure that the limiting block locks into the designated slot. (Fig.2B)
- Move the front assist handle up or down to the desired position, then fully tighten the nut to fasten in place (Fig.2B)

NOTE: Do not operate the tool without the front assist handle firmly in place.

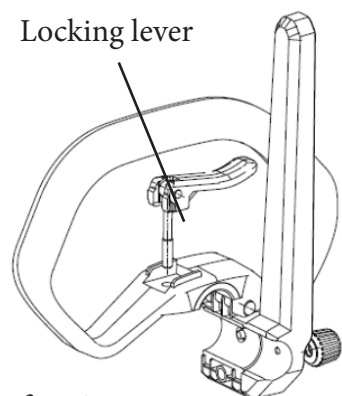


fig.2A



fig.2B

6.2 Connect an attachment to the power head



WARNING: Read and understand entire Operator's Manual for each optional attachment used on this power head and follow all warnings and instructions. Failure to follow all instructions could result in electric shock, fire and/or serious personal injury.



WARNING: This 62V power head is designed to be used only with the attachment that are specified in this Operator's Manual. Use of other unauthorized attachments could cause serious personal injuries or property damage.



WARNING: Always be sure that the tool is switched off and battery pack is removed before carrying out any work on the tool. Failure to switch off and remove the battery pack may result in serious personal injury from accidental start-up.

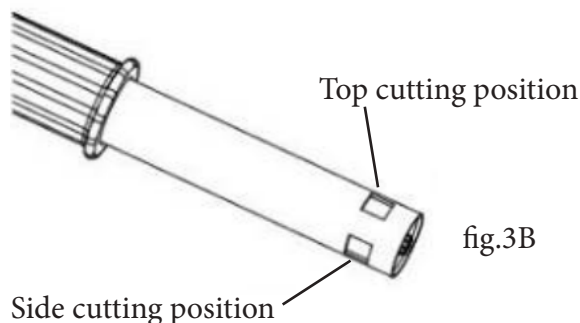
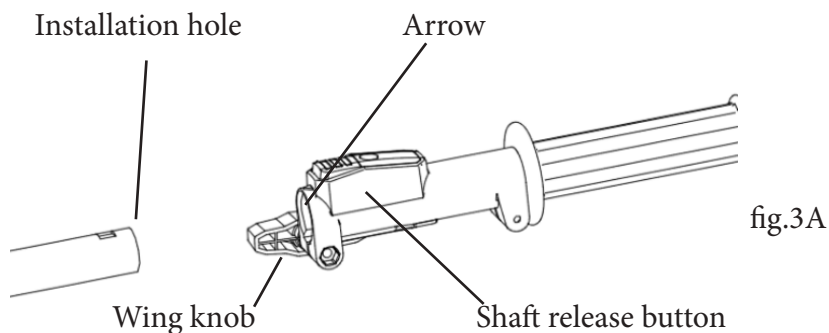


WARNING: Never start the tool unless it is completely assembled. Operation of the tool in a partially assembled state may result in serious personal injury from accidental start-up.



CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

- a) Remove the tube protection cap before installation.
- b) Loosen the wing knob.
- c) Align the installation hole on the attachment shaft with the arrow on the power head shaft, and push the attachment shaft into the power head shaft until you hear a "click" sound, which means that the attachment shaft is mounted into place. (Fig.3A)
- d) The hedge trimmer can be attached in either the top cutting position or side cutting position. Choose the suitable position for working task (Fig.3B).
- e) Try to rotate or pull the shaft to ensure the installation is secure, if not, reassemble again.
- f) Tighten the wing knob firmly.



6.3 Remove the attachment from the power head



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.

- Stop the motor and remove the battery pack.
- Loosen the wing knob to release the shaft.
- Press the shaft release button and meanwhile, pull the attachment shaft or extension tube out from the power head shaft and remove. (Fig.3)

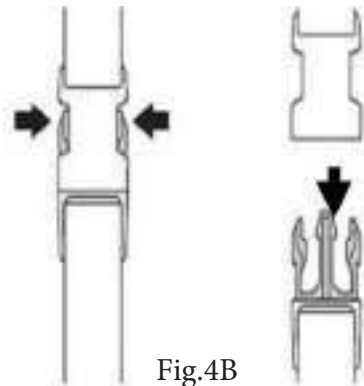
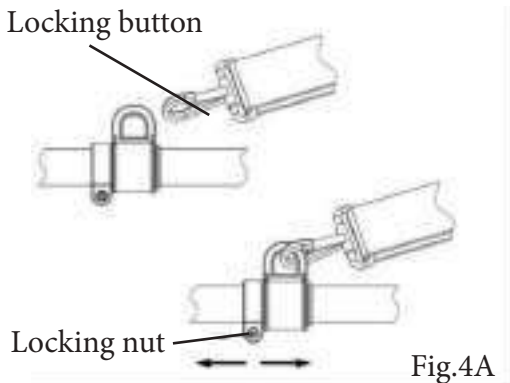
6.4 Connect and adjust the harness

The harness gives maximum control during operation of the product. The harness decreases the risk of tiredness in your arms and back. Always use the harness for your comfortable operation.

- a) Put on the harness.
- b) Press the locking button to clip harness hose to the product harness support hook. (Fig.4A)
- c) Adjust the length of the harness until the support hook is roughly level with your right hip.
- d) This belt provided quick-release mechanism. Press the both side of the release button with one hand, the machine can be released quickly from the operator in the event of emergency (e.g. occur spark, smoking or vibrate abnormally). (Fig.4B)

 **WARNING:** Be extremely careful to maintain control of the machine at this time. Do not allow the machine to be deflected toward you or anyone in the work vicinity.

 **WARNING:** Failure to maintain complete control of the machine at all could result in serious bodily injury or death.



6.5 Connect the extension tube between the attachment and power head (only for pole hedge trimmer)

 **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.

This extension tube is designed only for use with Power Head and hedge trimmer attachment.

The extension tube extends the cutting range. It should be connected between the attachment and the power head.

Follow the process in the section “Connect the attachment to the power head” to install the extension tube between the attachment and power head (Fig. 5).

NOTICE: Once assembled correctly, the attachment, extension tube and the power head should not separate when pulled. Always test the connection by pulling on them. Repeat the steps above if the shaft can be separated.



WARNING: Make sure the tool is firmly secured before operation. Failure to secure the attachment and power head/extension pole as instructed above could result in serious injury or death.



WARNING: The extension tube is used only for pole hedge trimmer. Remove the front assistant handle when using pole hedge trimmer.

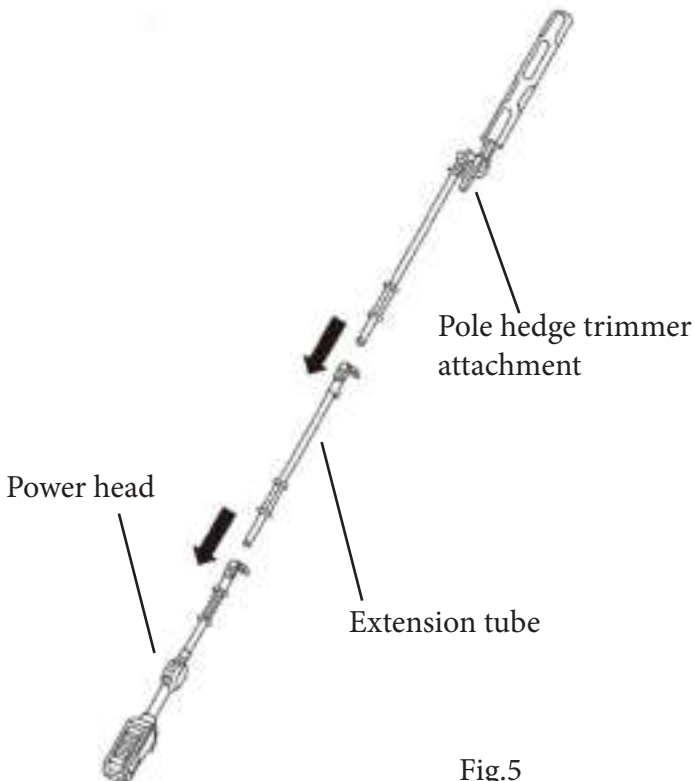


Fig.5

6.6 Safety guard assembly (for string trimmer)

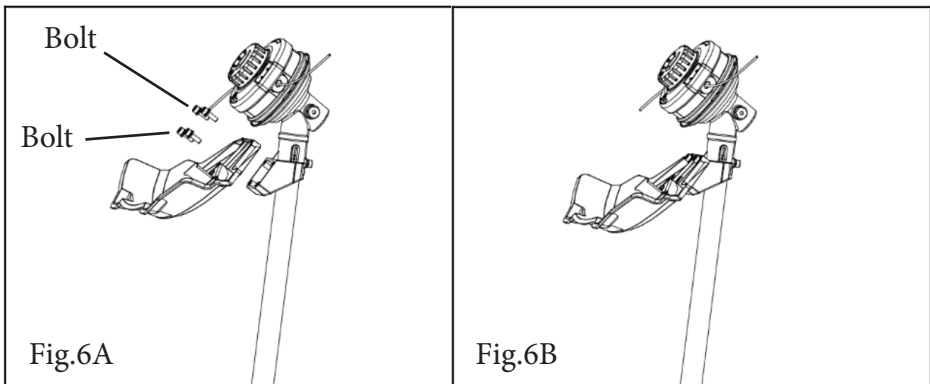


WARNING: Never use the tool unless the safety guard is properly fitted.



WARNING: Always wear gloves when mounting or replacing the safety guard. Be careful of the blade on the safety guard and protect your hands from being injured by the blade.

- Unscrew and remove the four bolts and washers from the guard.
- Lift the trimmer head and face it upward. Align the FOUR mounting holes in the guard with the four assembly holes at the base of the shaft. Make sure that the internal surface of the guard faces towards the trimmer head. (Fig. 6A).
- Lock the guard in place and screw the four bolts on with the washers (Fig. 6B).



6.7 Mounting the tip protector (for hedge trimmer)

- Remove the nut, washer, bushing from the bolt at the end of the blade with a hex wrench (not included) (Fig. 7A). Save them for reassembly.
- Align the tip protector with the blade plug on the blade and mount it into place. Secure it with a new long bolt and nut as well as the saved washer, bushing and nut as shown in Fig. 7B.

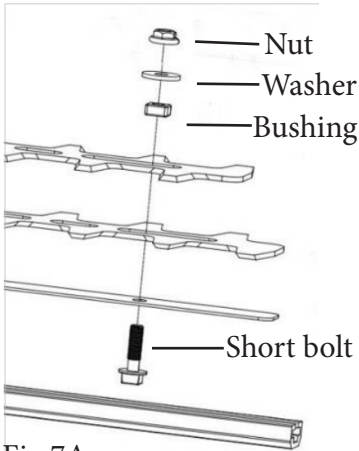


Fig.7A

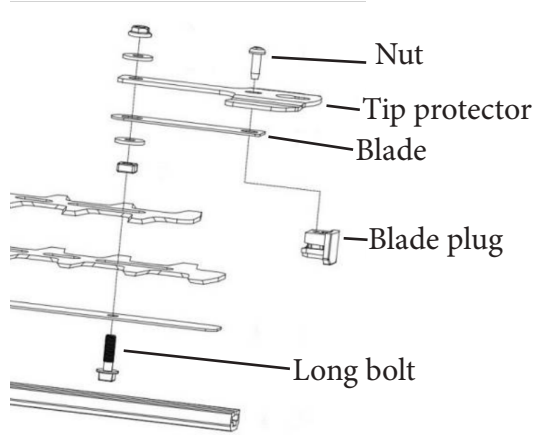


Fig.7B

6.8 Safety guard assembly (for brush cutter)



WARNING: Never use the tool unless the safety guard is properly fitted.



WARNING: Always wear gloves when mounting or replacing the safety guard. Be careful of the blade on the safety guard and protect your hands from being injured by the blade.

- Unscrew and remove the four bolts and washers from the guard.
- Lift the trimmer head and face it upward. Align the FOUR mounting holes in the guard with the four assembly holes at the base of the shaft. Make sure that the internal surface of the guard faces towards the trimmer head. (Fig.8)
- Lock the guard in place and screw the four bolts on with the washers (Fig. 8).

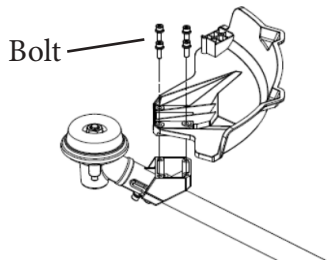


Fig. 8

6.9 Brush cutter BLADE assembly (for brush cutter)



CAUTION: The cutter blade must be well polished, free of cracks or breakage. Polish or replace the cutter blade every three hours of operation.

CAUTION: Always wear gloves when handling the cutter blade.

a) Remove the blade pressure plate, blade retainer, nut that re-assemble on the head from the head and put the brush cutter blade and installation kit into position.(Fig.8A)

b) Press the locking pin and at the same time turn the nut clockwise with the wrench provided to assemble it. (Fig.9B/ Fig.9C)

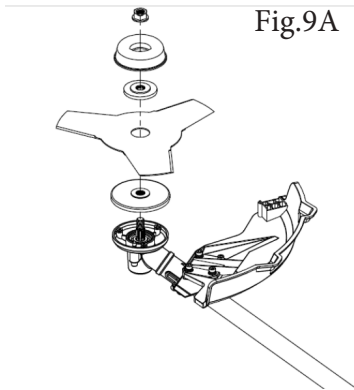


Fig.9A

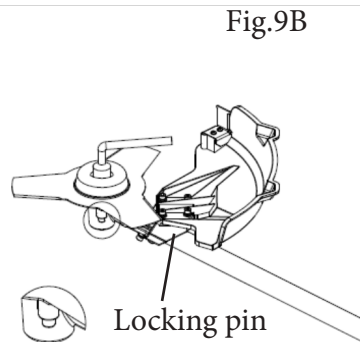
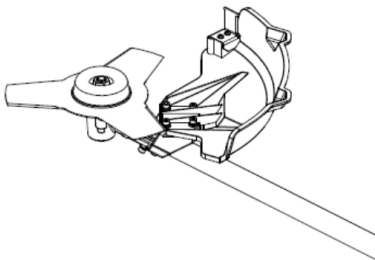


Fig.9B

Locking pin

Fig.9C



7. OPERATION

INTENDED USE

NOTE: Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and more safely

at the rate for which it was designed.

You may use this product for the purpose listed below:

Grass trimmer: Trimming grass and weeds from around porches, fences, and decks.

Brush cutter: Cutting weeds, scrub, brush, and similar vegetation.

Hedge trimmer: Trimming hedges, shrubs, scrub, bushes and similar material.

Pole pruner: Limb and pruning.



WARNING! Always exercise caution when using your pole saw, employing strict safety measures no matter your level of experience or expertise.



WARNING! 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 saw chain pole pruner.



WARNING! Always wear safety goggles or safety glasses with side shields during power tool operation.. Failure to do so could result in objects being thrown into your eyes and other possible serious injuries.



WARNING! Only use the attachments recommended by the manufacturer. The use of attachments or accessories not recommended can result in serious personal injury.



WARNING! Inspect the entire product for damaged, missing, or loose parts before each use. Tighten all fasteners and do not operate this product until all missing or damaged parts are replaced.

7.1 Installing and removing the battery pack



WARNING: FULLY charge the battery pack before first use. Connect your battery pack to the charger. Your battery must be fully charged before the first use of your product.



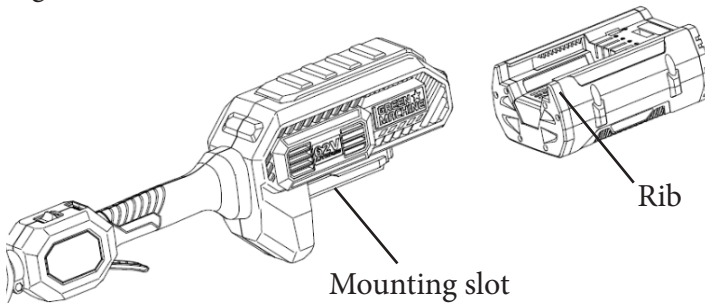
WARNING: Always remove the battery pack from the pro-

duct when you are assembling parts, making adjustments, cleaning, or when the blower is not in use. Removing the battery pack will prevent accidental starting that could cause serious personal injury.

To install the battery pack:

- a) Check to ensure that the power switch is set to off.
- b) Align the ribs of the battery pack with the mounting slots in the battery port. Insert the battery pack into battery holder. (Fig.10)
- c) Ensure that the latch snaps into place and the battery feels secure.

Fig. 10

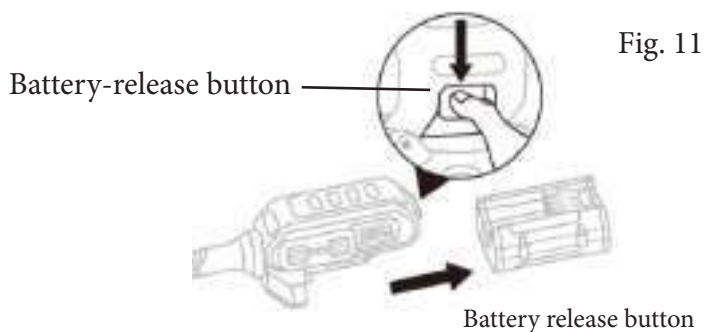


TO REMOVE THE BATTERY PACK:



WARNING: Put the tool on the ground before remove the battery pack. Serious injury could result if the battery pack falls. NEVER remove the battery pack at a high location.

- a) Turn off your tool.
- b) Press the battery-release button to disengage the battery from the latch. (Fig.11)
- c) Remove the battery from the power head.



7.2 To start the power head

WARNING! Avoid overworking or overusing your power tool. Use the tool as intended to avoid damage to the machine or yourself.

WARNING! Only switch the motor on when your hands and feet are away from the cutting parts.

WARNING! Never operate the power head without an attachment.

a) Stand upright and hold the product as designed. Place one hand on each handle. Make sure the machine is not touching the ground or any other objects.

b) Press down the lock off button and hold it in that position, depress the trigger to turn on the tool. Release the lock off button and continue to squeeze the trigger for continued operation

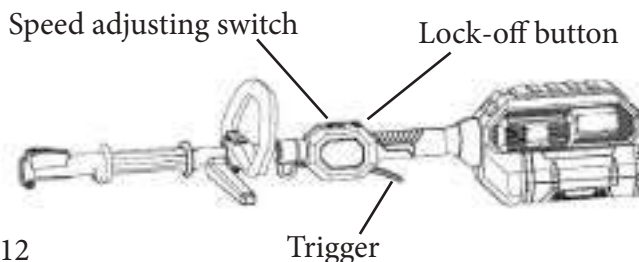


Fig. 12

NOTE: The cutting head continues to rotate for a few seconds after motor is switched off.

7.3 Adjusting the speed

- a) The rotational speed of the motor on your Cordless tool can be adjusted by the speed adjustment switch.
- b) Push the speed adjusting switch to “SPORT” or “ECON” to change the speed. (Fig.12)
- c) Adjust the speed to suit the task. Do not overwork your machine.

7.4 To stop the power head

Release the trigger to stop the power head.



WARNING! Always remove the battery pack from the power head during work breaks and after finishing work.

7.5 String trimmer operation



WARNING: To avoid serious personal injury, wear goggles or safety glasses at all times when operating this unit. Wear a face mask or dust mask in dusty locations. Do not wear loose clothing or jewelry. Wear heavy, long pants, boots and gloves.

NOTICE: Clear the area to be cut before each use. Remove all objects, such as rocks, broken glass, nails, wire, or string that can be thrown or become entangled in the cutting attachment. Clear the area of children, bystanders, and pets. At a minimum, keep all children, bystanders and pets at least 100 feet (30.5m) away; Hold the string trimmer with one hand on the rear handle and your other hand on the front P shape assistant handle. Keep a firm grip with both hands while operating the tool. The trimmer head should be parallel to the ground such that it easily contacts the material to be cut without the operator having to bend over.

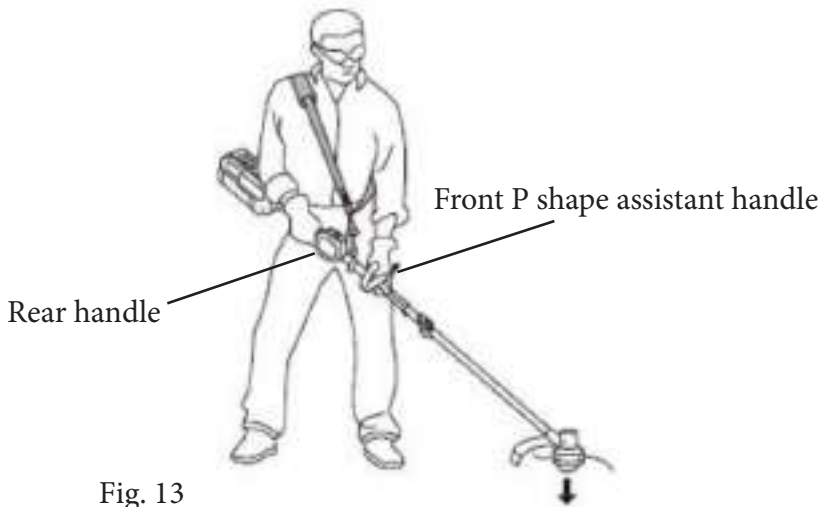


Fig. 13

Tips for best trimming results:

- 1. Always use your machine with the cutting attachment parallel to the ground.** The trimmer shaft should be at about a 35° angle from the ground.
- 2. When starting, hold the machine at a safe distance from the ground.** Once the motor has started, you can begin to cut.
- 3. Slowly swing your trimmer from left to right for best results.**
- 4. Do not force the trimmer.** High grass should be cut in layers, beginning from top to bottom in small increments.
- 5. Do not cut damp or wet grass.**
- 6. Avoid hitting the trimmer line against hard objects (stone, walls, fences etc).** This will wear out the line and decrease the longevity of your machine.
- 7. Avoid trees and shrubs.** Tree bark, wood moldings, siding, and fence posts can be easily damaged and create hazardous flying shrapnel.

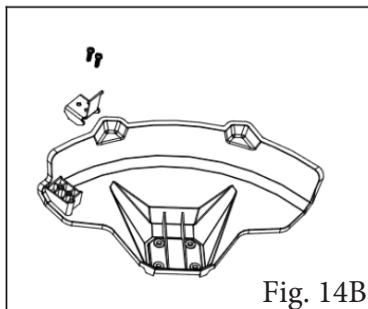
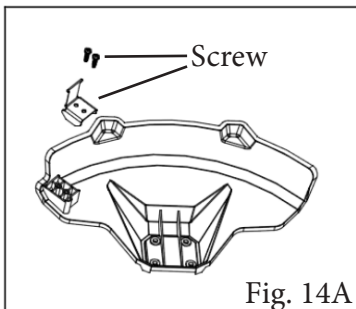
NOTE: Excessive force or bashing the trimmer bump head on the ground to advance the cutting line will damage the bump head.

7.5.1 Changing of the cut-off blade

 **WARNING!** Remove the battery pack from the string trimmer before inspecting, cleaning, or performing Maintenance. This string trimmer is equipped with a line cut-off blade on the guard. The line cut-off blade continuously trims the line to ensure a consistent and efficient cut diameter. Advance line whenever you hear the motor running faster than normal, or when trimming efficiency diminishes. This will ensure the best possible performance and keep the line long enough to advance properly. This trimmer comes set to a 16-inch cutting diameter. To adjust to a cutting swath to 14 inches.:

- a) Remove the battery from the string trimmer.
- b) Remove both screws on the cut-off blade with a hex wrench. (Fig.14A)
- c) Rotate the cut-off blade 180°. (Fig.14A/Fig.14B)
- d) Re-assemble both screws in the blade. (Fig.14B)

NOTE: Set the cut-off blade to 14 in. for a greater running time. Set the cut-off blade to 16 in. for a greater cutting area.



7.5.2 Cutting line advance

Your Cordless String Trimmer offers the ability to release cutting line while the motor is running. Simply tap the bump knob on the ground to release frayed or worn line. (Fig. 15). Regularly check

the condition of your line and release as needed to avoid malfunctions or overheating of your machine.

 **WARNING!** Do not remove or alter the line cutting blade assembly. Excessive line length will cause the motor to overheat and may result in serious personal injury.

 **CAUTION:** For best results, tap the bump knob on bare ground or hard soil. Avoid doing so in areas with tall grass, which can get caught up in the cutting line. Always keep the trimming line fully extended. Line release becomes more difficult as the cutting line becomes shorter.

 **WARNING!** Do not use excessive force or bash the Trimmer Bump Head on the ground. If the trimming line will not advance after tapping the bump head, the cutting line may have been used up. Alternatively, the cutting line may be tangled. Take out the battery and turn off your machine before checking for tangled line.

Fig. 15



Bump knob

 **WARNING:** To avoid serious finger injury, wear goggles when replace the cut-off blade. May be there are rocks that can be thrown by the cutting line. Stop the motor and cutting attachment immediately. Check for damage for the trimming head and safety guard, replace if necessary. There still may be risk to bystanders from thrown objects, if you are approached, stop the motor and cutting attachment immediately.

7.6 Brush cutter operation

Start the brush cutter before getting close to the brush to be cut. Cut the brush by moving the machine from right to left and proceed slowly, keeping machine inclined about 35°.

 **WARNING:** Always turn off the machine and make sure the cutting attachment has stopped before putting a brush cutter down. When transporting your brush cutter in a vehicle, properly secure it to prevent turnover, and damage to the brush cutter. Keep metal cutting tools covered with the transport guard (optional accessory)

 **WARNING:** Adjust carrying harness and hand grip to suit your size before starting work. The machine should be properly balanced as specified in your owner's manual for proper control and less fatigue in operation.

 **WARNING:** Always check your brush cutter for proper condition and operation before starting, particularly the switch trigger, safety lock button, cutting blade, safety guard.

 **WARNING:** The switch trigger must move freely and always spring back to the idle position. The cutting tool must be properly tightened and in safe operating condition. Inspect for loose parts (nuts, screws, etc.) and for cracked, bent, warped or damaged blades.

Hold the brush cutter with one hand on the rear handle and your other hand on the front P shape assistant handle. Keep a firm grip with both hands while operating the tool. The brush cutter head should be parallel to the ground such that it easily contacts

the material to be cut without the operator having to bend over.
(Fig.20)

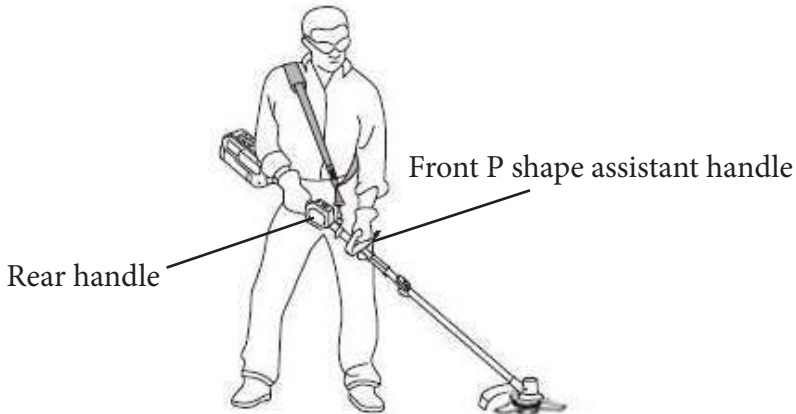


Fig. 16



WARNING: Cutting blade is sharp, to avoid serious finger injury, wear goggles when servicing the blade. May be there are rocks that can be thrown or become entangled in the cutting attachment. Stop the motor and cutting attachment immediately. Check for damage for the blade and safety guard, replace if necessary. There still may be risk to bystanders from thrown objects, if you are approached, stop the motor and cutting attachment immediately.

7.7 Hedge trimmer operation

7.7.1 Adjusting the hedge trimmer angle

The hedge trimmer is folded in storage position when removed from the package(Fig.17A). Adjust the blade to a suitable working position before operation.

The trimmer head pivots 135° and can be locked into 10 positions within that range. The angle of blade can be adjusted upwards to any of 4 positions from 0(straight) to 45, and downwards to any of

6 positions from 0 to 90° (Fig.17B).

1. Press the release trigger down and meanwhile, rotate the adjusting lever to adjust the blade to the desired cutting position as required. (Fig.17C)
2. Release the release trigger, making sure the locking pin is engaged in the locking plate which indicates trimmer head clicks into place.



WARNING: To reduce the risk of injury, remove the battery before making adjustments and make adjustments only when the blades are at a standstill. Never touch the blades while making adjustments.



WARNING: To reduce the risk of injury, always stop the tool, remove the battery, and cover the blade with the blade guard before moving the blade to the storage position or from the storage position to the normal working position.

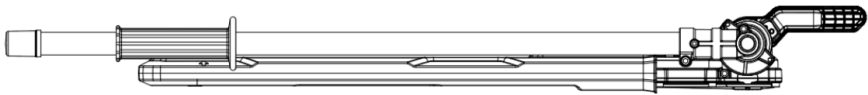


Fig.17A

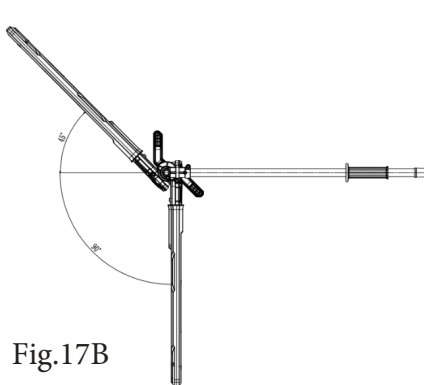


Fig.17B

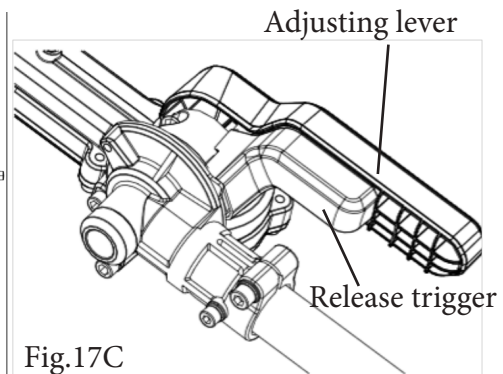


Fig.17C

7.7.2 For hedge trimmer operation

NOTICE: Adjust the blade to a suitable working position fit for working task before operation.

NOTICE: The hedge trimmer can be attached in either the top cutting position or side cutting position. Choose the suitable position for working task.

NOTICE: The hedge trimmer can be attached the extension tube. Choose the suitable length for working task.

- a) Hold the unit near your body for a stable work position.
- b) Make sure that the tip of the cutting equipment does not touch the ground.
- c) Start near the ground and move the hedge trimmer up along the hedge when you cut the sides. Slightly tilt the tool (up to 15° relative to the line of cut) so that the blade tips point slightly towards the hedge. This will cause the blades to cut more effectively. Hold the tool at the desired angle and move it steadily along the line of cut. The double-sided blade allows you to cut in either direction.
- d) In order to obtain a very straight cut, stretch a piece of string along the length of the hedge at the desired height. Use the string as a guideline, cutting just above it.
- e) In order to obtain flat sides, cut upwards with the growth. Younger stems move outwards when the blade cuts downwards, causing shallow patches in the hedge.
- f) Take care to avoid any foreign objects. Especially avoid hard objects such as metal wire and railings, as these could damage the blades.
- g) Be careful and work slowly until all the branches are correctly cut.
- g) When doing overhead Cutting, hold the hedge trimmer vertically and slowly swing it in an arc to make maximum use of its reach.



WARNING: Any overhead working position is tiring. To mini-

mize the risk of accidents, work in such positions for short periods only.

Hold the hedge trimmer with one hand on the rear handle and your other hand on the front assistant handle. Keep a firm grip with both hands while operating the tool. Choose one of the front assistant handle suitable for you. (Fig.17)



Fig.18



WARNING: Branches may become entangled in the hedge trimmer blade. Stop the motor and cutting attachment immediately. To avoid serious finger injury, wear goggles when servicing the blade. To reduce the risk of electrical injury, do not operate near or under electrical power lines. There may still be a risk that the falling cut branches hit bystanders, if you are approached, stop the motor and cutting attachment immediately.

7.8 Pole saw operation

7.8.1 Add lubrication oil

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.

WARNING! Switch off and remove battery from machine before adjusting, storing, or cleaning. Keep in mind that the blades continue to move after the pole saw is switched off. Never touch the moving blades.

Prior to each use, check that there is enough of chain oil inside the unit. Without proper oil levels, your pole saw will not function properly. To lubricate your pole saw, follow steps below.

We recommend using SAE#10W-30 oil or an equivalent bar and chain oil from a hardware store.

- Stop the motor and remove the battery pack.
- Place the pole saw upright to ensure that the oil tank cap is facing upwards. Unscrew the oil tank cap and remove it. (Fig.7)
- Fill the oil tank with chain oil. The oil level should be above "MIN" limit and below the "MAX" limit. (Fig.19)
- Close the oil cap and secure again.

The device must be cleaned thoroughly if oil has been spilled.

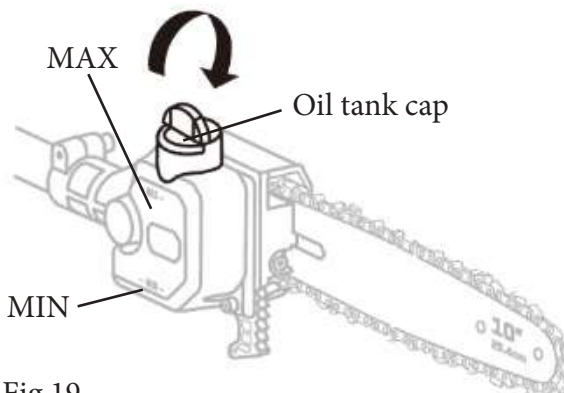


Fig.19

7.8.2 Checklist prior to every use

- a) Ensure that the chain is fully mounted and correctly tensioned, refer to “Checking and adjusting the chain tension” in maintenance section.
- b) Check the oil level is between “MIN” and “MAX”, fill the tank if needed.
- c) Make sure that the chain’s cutting teeth are sharp.
- d) Lubricate the chain if needed.
- e) Make sure the chain is not touching the ground or any other objects.
- f) Secure both hands with a firm grip.
- g) Avoid cutting on uneven ground and always make sure that you are well balanced before starting your machine. Hold the pole saw in both hands with a sure grip.
- h) Never stand directly under the limb you are cutting.
- g) Make sure all the fasten is secure.

7.8.3 To cut branches



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

- a) Position yourself so that you can make the cut at right angles to the branch. Hold the tool firmly in place to avoid possible bouncing or sideways movement of the tool.
- b) Guide the tool through the branch using light pressure. If you force the cut, damage to the bar, chain, or motor can result.
- c) Cut long branches in sections so that you have better control over where they fall. Pay attention to the fact that falling branches can bounce in the direction of the user after hitting ground.
- d) when cutting from the top of the limb, hold the bucking spikes against the limb being cut to provide support during cutting. This will help prevent the cutting attachment from bouncing on the branch.

e) When cutting heavy branches, where a partial cut may splinter and damage the tree, proceed as follows:

- Never cut at the root of the branch as this will slow down healing, make the first cut 150mm close to the main tree trunk on the underside of the limb before cutting through the branch. This will prevent

tearing of the bark, which could cause permanent damage to the tree. Cut 1/4 through the diameter of the limb.

- 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.

- Make a final cut close to trunk from the top.

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

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



WARNING! Gather up the cutting guard and remove the battery pack after each operation.

7.8.4 Tips for operation

This pole saw attachment is designed for cutting small branches. For best results, observe the following precautions.

a) Be aware of the direction in which the branch will fall. Branches may fall in unexpected directions, do not stand directly under the branch being cut.

b) Remove long branches in several stages so that you have better control over where they fall.

c) Work slowly, keeping both hands on the pole saw with a firm grip. Keep a good balance and a firm foothold. Make sure that you can move and stand safely. Check the area around you for possible obstacles (roots, rocks, branches, ditches) in case you have to move suddenly. Take great care when you work on slo-

ping ground.

d) Do not cut from a ladder or climb in the tree. It's extremely dangerous.

e) Do not use the pole saw for felling or bucking.

f) Take great care when cutting a tree that is in tension. A tree that is in tension may spring back to its normal position before or after being cut. If you position yourself incorrectly or make the cut in the wrong place the tree may hit you or the product and cause you to lose control. Both situations can cause serious personal injury.

g) To prevent electrocution, do not operate within 50 ft. (15m) of overhead electrical lines.

h) Ensure that no people or animals come closer than 15 m (50 ft.) while you work. When several operators are working in the same area the safety distance should be at least 15 m. Otherwise there is a risk of serious personal injury. Stop the product immediately if anyone approaches. Never swing the product around without first checking behind you to make sure that no one is within the safety zone.

i) If you encounter a situation where you are uncertain how to proceed you should ask an expert. Contact your dealer or your service workshop. Avoid all usage which you consider to be beyond your capability.

8. MAINTENANCE AND CLEANING



WARNING! Regular inspection is the most important step to proper maintenance. By following the guidelines below, you can maximize the safety, durability, and effectiveness of your pole saw. Should you identify any damaged or excessively worn parts, replace them immediately.



WARNING! Remove the battery pack from the pole saw before inspecting, cleaning, or performing Maintenance.



WARNING! When servicing, use only identical replacement parts and accessories.



WARNING! Never let petroleum-based products, penetrating oils, etc., come in contact with plastic parts.

NOTICE: For repairs and service, please work with an authorized service dealer.

8.1 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.



WARNING: Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which can result in serious personal injury.

8.2 Cleaning the power head



WARNING! When cleaning the power head, do not immerse in water or other liquids.

- a) Turn off your machine and remove the battery pack.
- b) Clear any grass that may have wrapped itself around the motor shaft.
- c) Clean dirt and debris from the power head using a damp cloth with a mild detergent.
- d) 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, and by solvents such as kerosene.
- e) Completely dry your machine before use. A damp machine presents a shock hazard.

8.3 String trimmer maintenance

8.3.1 Replacing the cutting line

NOTICE: This model uses a nylon line with a diameter of 0.9 inches (2.3mm).

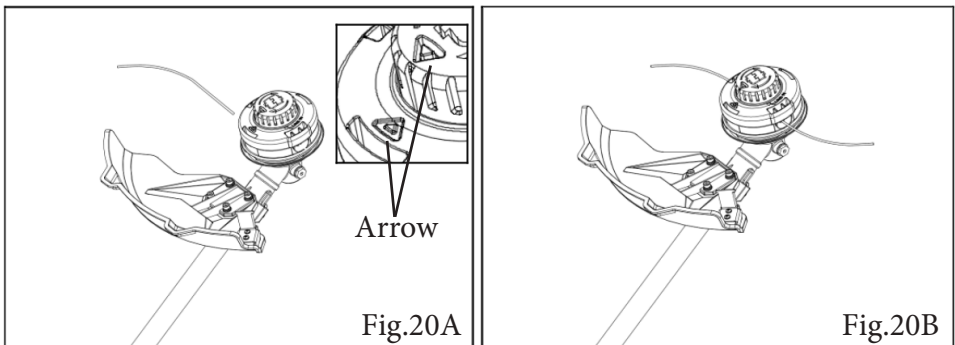


WARNING: Never use line which has not been approved for

this machine. Metal-reinforced line, wire, and rope will not function properly with your machine.

NOTE: The cutting line is about 4.4 yards (4m) in length.

- a) Align the arrow on the bump knob with the one on the spool cartridge. (Fig.20A)
- b) Insert the cutting line into the eyelet that marked “LINE IN” on the spool. (Fig.20A)
- c) The end of the line appears in the opposite eyelet of the spool. Pull both ends of the line until they are of equal length.
- d) Hold the line cartridge with one hand and turn the bump knob counterclockwise with the other hand, until both ends are approximately 6 inches long. (Fig.20B)



8.3.2 Cutting line re-assembly

- a) If the cutting line is stuck inside the cartridge, detach the cartridge and re-assemble the cutting line.
- b) Press the cap release latch on the cap and lift it out of the spool holder (Fig.21).
- c) Remove the line cartridge and take the line out of the cartridge.
- d) Re-assemble the cartridge and assemble the cutting line as part 8.3 describes.

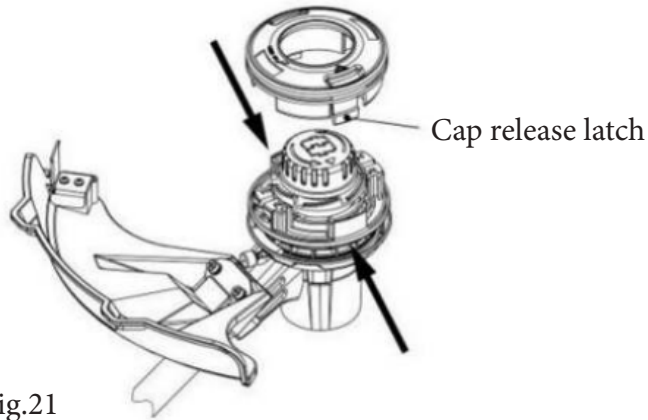


Fig.21

8.3.3 Replacing the trimmer head

- a) The line cartridge on your string trimmer is fully disposable. If the cartridge has been damaged, detach the trimmer head, making sure to dispose of it properly. You may then attach a replacement cartridge .
- c) Press the locking pin and turn the cartridge counterclockwise to remove it. (Fig.22)
- d) Press the locking pin and turn the trimmer head clockwise to assemble it. (Fig.22)

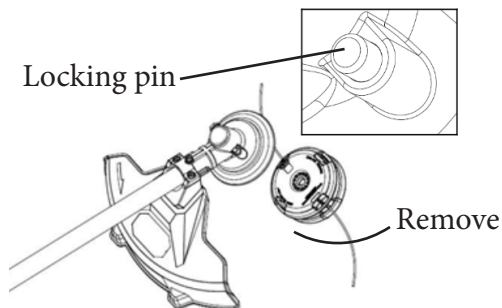


Fig.22

8.3.4 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 sides of the gear, follow the steps below to fill with gear grease up to 3/4 capacity.

Do not completely fill the transmission gear case.

- a) Hold the string trimmer on its side so that the sealing screw is facing upwards (Fig. 23).
- b) Use the hex wrench provided to loosen and remove the sealing screw.
- c) Use a grease syringe (not included) to inject some grease into the screw hole, taking care not to exceed 3/4 capacity.
- d) Tighten the sealing screw after injection.

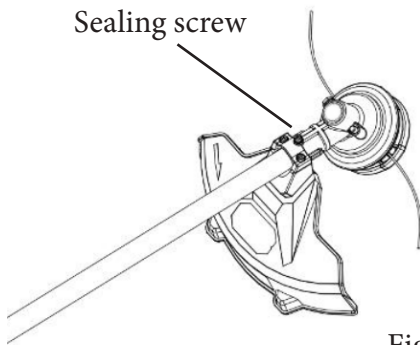


Fig.23

8.4 Brush cutter maintenance

BLADE CHANGE



WARNING: Always be sure that the tool is switched off and battery pack is removed before carrying out any work on the tool. Failure to switch off and remove the battery pack may result in serious personal injury from accidental start-up.



WARNING: Never start the tool unless it is completely as-

sembled. Operation of the tool in a partially assembled state may result in serious personal injury from accidental start-up.

⚠ CAUTION: The cutter blade must be well polished, free of cracks or breakage. Polish or replace the cutter blade every three hours of operation.

⚠ CAUTION: Always wear gloves when handling the cutter blade.

- a) Remove the lower pressing plate, blade, upper pressing plate, protective cover and nut from the head.(Fig.24A)
- b) Replace the blade with a new one.
- c) Press the locking pin and at the same time turn the nut clockwise with the wrench provided to assemble it. (Fig.24B/Fig.24C)

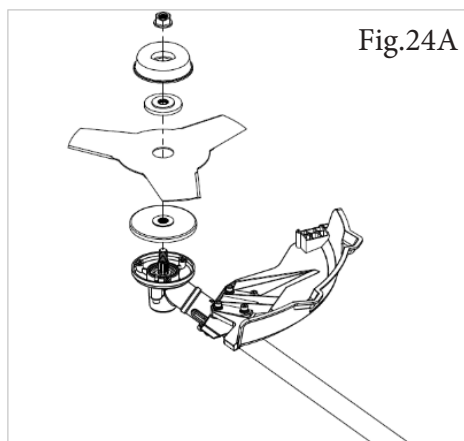


Fig.24A

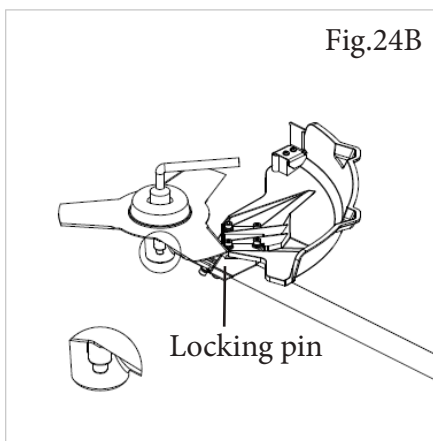


Fig.24B

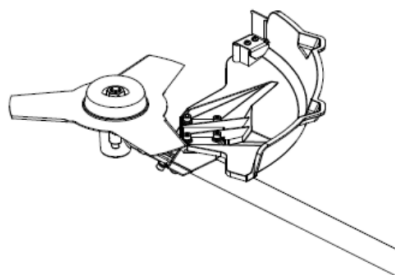


Fig.24C

8.5 Hedge trimmer maintenance

8.5.1 Replacing the blade

WARNING! Remove the battery pack and ensure that the hedge trimmer has completely stopped before performing maintenance or inspecting your hedge trimmer for damages.

WARNING! Do not touch the blade with your hands directly. Wear gloves or wrap the bar/chain in a thick cloth.

NOTICE: Always use the specified accessory recommended by the manufacturer when replacing parts.

To remove the worn blade:

- a) Stop the motor and remove the battery pack. Wait until the blade stopped.
- b) Adjust the blade to the horizontal position, ensuring that the blade assembly is in line with the hedge trimmer shaft and put the gear box cover upwards(Fig. 25A).
- c) Loosen the 6 short screws in the gear box cover with a 4mm hex wrench (not included) and store them for re-assembly.
- d) Loosen the 2 long screws and remove the wool felt, pressing plate and two gasket for re-assembly.
- e) Remove the bearing and lining plate under the gear box cover, and store them for re-assembly .
- f) Carefully remove the connecting rod from the blade.
- g) Remove the blade assembly from the tool and replace it with a new one.

To assemble a new blade:

- a) Align the two holes in the new blade assembly with the screw hole inside the gear box assembly.
- b) Mount the two gaskets, pressing plate, and wool felt into place as Fig.5B shown.
- c) Keep the holes in the blade, the gaskets, and the holes in the pressing plate, wool felt in line with the screw holes in the gear case. Install the 2 long screws into the aligned holes and tighten them securely (Fig.25B).

- d) Check whether the blade can move freely.
- e) Align the connecting rod with the rivet in the blade, and install the connecting rod into place. (Fig.25C).
- f) Align the hole of the lining plate and bearing with the bulge in the cam, ensuring that the plate is exactly located in the center, parallel to both edges.
- g) Mount the gear box cover onto the gear case and secure it with 6 short screws (Fig. 25C).
- h) Start the hedge trimmer to check whether the hedge trimmer can work normally. If it does not, reassemble following the above steps.

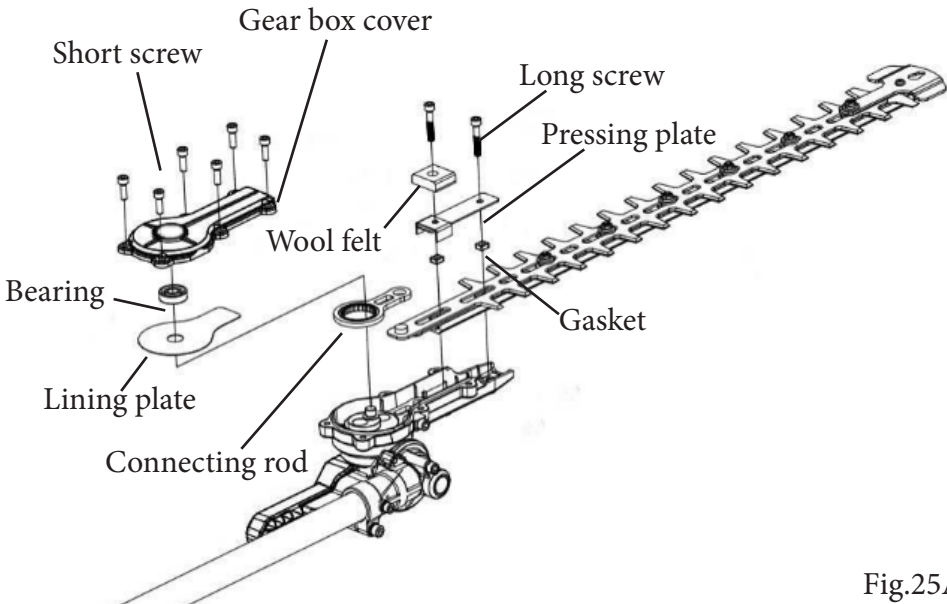


Fig.25A

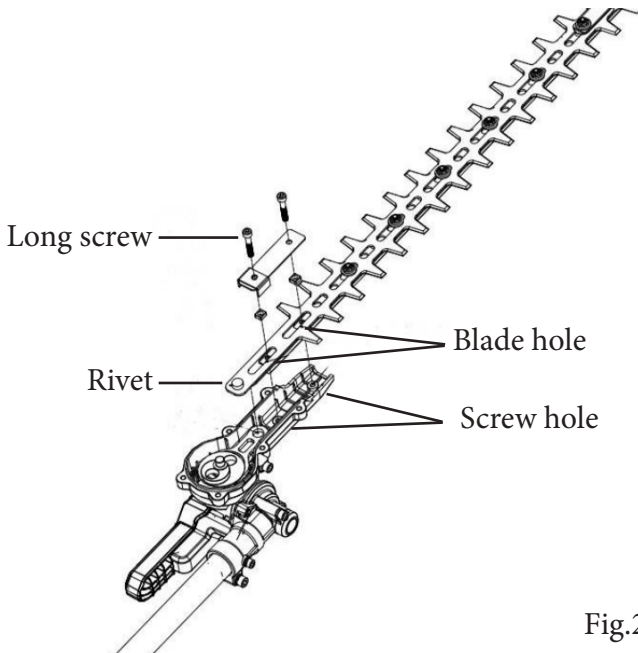


Fig.25B

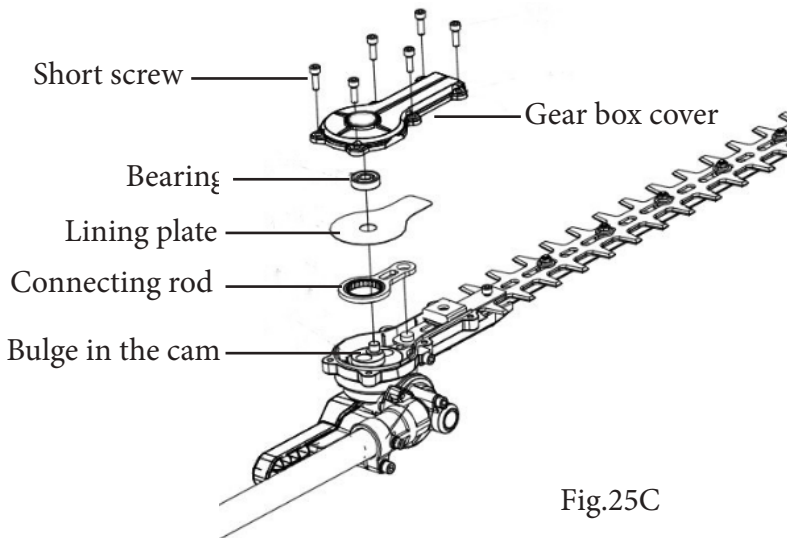


Fig.25C

8.5.2 To examine the cutter blade



WARNING! Remove the battery pack and ensure that the hedge trimmer has completely stopped before performing maintenance.



WARNING! Do not touch the blade with your hands directly. Wear gloves or wrap the bar/chain in a thick cloth.

- a) Clean the cutter blades from unwanted materials with an anti-corrosion cleaning agent before and after you use the product.
- b) Examine the edges of the cutter blade for damages and deformation.
- c) Use a file to remove burrs on the cutter blade. It is recommended to have the blades re-sharpened by a qualified service technician.
- d) Make sure that the cutter blades move freely.

NOTICE: Do not operate your hedge trimmer with dull or damaged blades. This may cause overload and will give unsatisfactory cutting results.

8.5.3 To clean and lubricate the cutter blade



WARNING! Remove the battery pack and ensure that the hedge trimmer has completely stopped before performing maintenance.



WARNING! Do not touch the blade with your hands directly. Wear gloves or wrap the bar/chain in a thick cloth.

- a) Clean the blades from unwanted materials before and after you use the product.
- b) To prevent rust, it is recommended to lubricate the blades with anti-rusting oil before long periods of storage.

NOTE: Speak to your servicing dealer for more information about recommended cleaning agents and lubricants.

8.5.5 Transmission gears lubrication



WARNING! Remove the battery pack and ensure that the

hedge trimmer has completely stopped before performing maintenance.

⚠ WARNING! Do not touch the blade with your hands directly.
Wear gloves or wrap the bar/chain in a thick cloth.

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.

There are three sealing screws: one on the side and two on the top.(Fig.19A/Fig.19B) If no grease can be seen , follow the steps below to fill with gear grease up to 3/4 capacity.

Do not completely fill the transmission gear case.

- a) Lay the hedge trimmer on the ground and make sure the sealing screw to be removed is facing upwards (Fig.26A /26B).
- b) Use the hex wrench provided to loosen and remove the sealing screw.
- c) Use a grease syringe (not included) to inject some grease into the screw hole; do not exceed 3/4 capacity.
- d) Tighten the sealing screw after injection.

Fig.26A

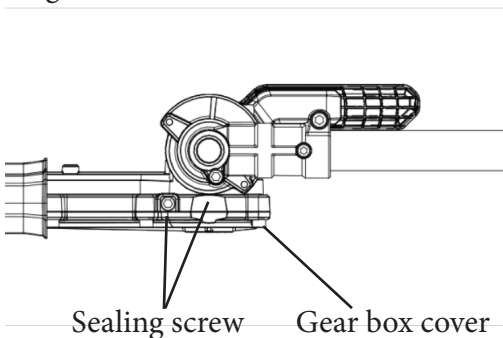
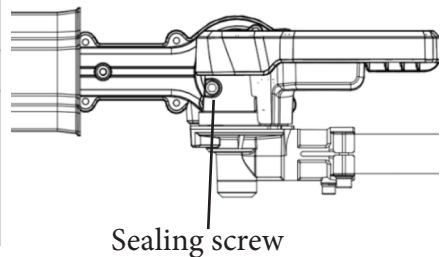


Fig.26B



8.6 Pole pruner maintenance

8.6.1 Check before each use

Handles: Front and rear handles should not have cracks or other damage. They should be cleaned and dried to ensure a firm grip.

Guide Bar: The guide bar should be straight and free of chips, cracks, or excessive wear.

Saw Chain: The chain should be properly tensioned, and all components free of cracks, chips, or excessive wear.

Side Cover: The side cover should be free of cracks or other damage. It should fit tightly to the pole saw body with no warping.

Battery Pack: The battery pack should be clean and dry, with no signs of puncture, impact, or other damage.

The contacts should be clean, dry and free of debris.

Battery Holder: The battery holder should be clean, dry, and free of debris.

Oil Level: Fill the oil reservoir before use. Your oil level should always be between “MIN” and “MAX” lines.

Motor Cover: Check for cracks in the cover and debris in the air intake vents.

8.6.2 Cleaning the pole saw



WARNING! When cleaning the pole saw, do not immerse in water or other liquids.

- a) Turn off your machine and remove the battery pack.
- b) 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.
- c) 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.
- d) Remove branch chips and other debris from the battery holder. Make sure the contacts are clean and dry.

- e) Wipe down the power head with a clean cloth moistened with a mild soap solution. Never use harsh cleaners or solvents.
- f) Always clean out chips, saw dust, and dirt from the guide bar groove when replacing the saw chain.
- g) 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, and by solvents such as kerosene.
- h) Completely dry your machine before use. A damp machine presents a shock hazard.

8.6.3 Replacing the bar and chain



WARNING! Remove the battery pack and ensure that the pole saw has completely stopped before performing maintenance or inspecting your pole saw for damages.



WARNING! Do not touch the bar or chain with your hands directly. Wear gloves or wrap the bar/chain in a thick cloth.

NOTICE: Always use the specified bar and chain recommended by the manufacturer when replacing parts.

NOTICE: Make sure that there are no cracks in rivets, links and cutters, and that no rivets are loose, replace if necessary. Make sure that the saw chain is easy to bend. Replace the saw chain if it is rigid.

DISASSEMBLING THE WORN BAR AND CHAIN

- a) Turn your tool off, remove the battery pack and allow the pole saw to cool. Put on protective gloves.
- b) Make sure the oil tank cap is firmly closed.
- c) Position the pole saw attachment on its side on a firm, flat surface, so that the chain-sprocket cover is facing upwards (Fig. 27).
- d) Loosen the cover screw with the socket wrench provided and remove it from the sprocket cover.
- e) Remove the sprocket cover from the pole saw attachment.
- f) Remove the bar along with the chain and release the used chain from the bar. Make sure the bar pad and sprocket are free of debris.

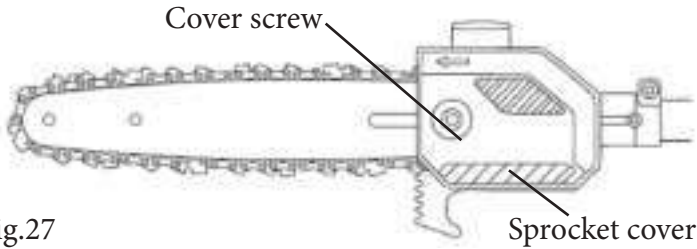


Fig.27

INSTALL NEW GUIDE BAR AND SAW CHAIN



WARNING! Wear gloves throughout assembly.

- a) Place a new chain in the slot of the guide bar, making sure the saw teeth are facing the correct direction by matching the arrow on the guide bar. (Fig.28A/28B)
- b) Place the saw chain around the sprocket with the cutting teeth corresponded to the direction of the symbol on the housing. (Fig.28C)
- c) Insert the sprocket cover and make sure the cover is securely seated.
- d) Tighten the cover screw to secure the sprocket cover with the socket wrench provided.

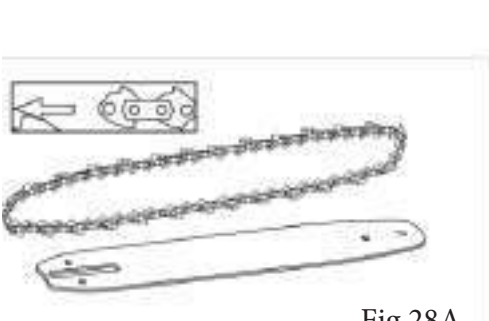


Fig.28A

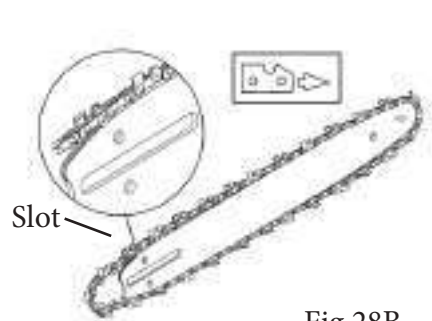


Fig.28B

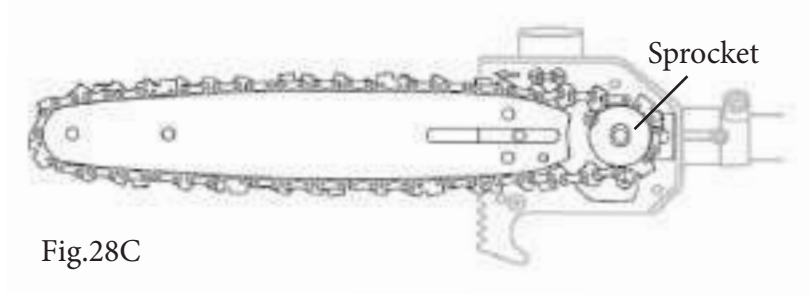


Fig.28C

8.6.4 Checking and adjusting the chain tension



WARNING! Always remove the battery pack from the product when you are assembling parts, making adjustments, cleaning, or whenever the pole saw is not in use.



WARNING! The saw chain must be properly tensioned before using.



WARNING: Do not over-tension the chain as this will lead to excessive wear and will reduce the life of the bar and chain.



WARNING: When the saw chain is new, check the tension frequently during the first two hours of use as a new saw chain stretches slightly.

Check the saw chain tension. The tension is correct when the saw chain snaps back after being pulled away 3 mm from the saw chain bar with light force from the middle finger and thumb. There should be no 'sag' between the guide bar and the saw chain on the underside. (Fig.29A)

To adjust the tension:

- Turn your pole saw off, remove the battery pack, and put on protective gloves.
- Loosening the cover screw. (Fig.27)
- Turn the chain tension screw clockwise with the socket wrench provided when the tensioning of the chain is too low, or turn the chain tension screw anticlockwise when the tensioning of the chain is too strong. (Fig.29B)

- d) Check the tension level by pulling the chain 3mm away from the guide bar with light force. Your chain is at the correct level of tension if there is no “sag” between the guide bar and chain on the underside. (Fig. 29A)
- e) Once the chain tension is correct, tighten the cover nut.

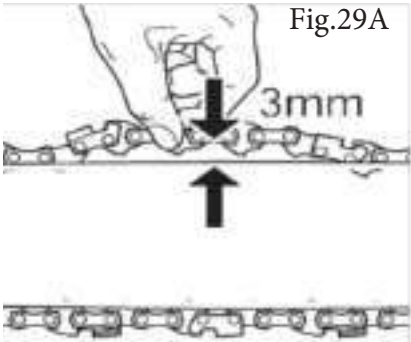


Fig.29A

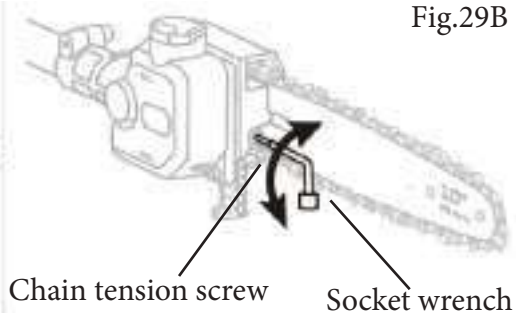


Fig.29B

8.6.5 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 sides of the gear, follow the steps below to fill with gear grease up to 3/4 capacity.

Do not completely fill the transmission gear case.

- Position the pole saw attachment on a firm, flat surface, so that the sealing screw is facing upwards (Fig. 30).
- Use the hex wrench provided to loosen and remove the sealing screw.
- Use a grease syringe (not included) to inject some grease into the screw hole, taking care not to exceed 3/4 capacity.
- Tighten the sealing screw after injection.

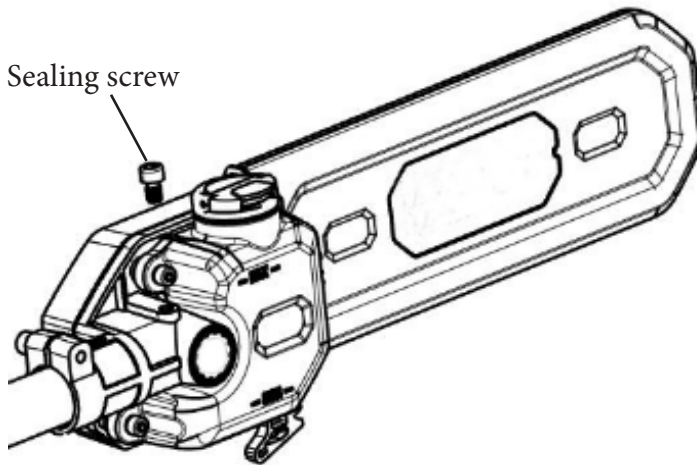


Fig.30

8.6.6 Chain maintenance



WARNING! Always remove the battery pack from the product when you are assembling parts, making adjustments, cleaning, or whenever the pole saw is not in use.



WARNING! Wear protective gloves whenever maintaining your pole saw.

- A properly sharpened saw chain does not require high levels of pressure to complete the task.
- Never use a dull or damaged saw chain. A dull saw chain cutter can lead to increased physical strain and dangerous flying shrapnel.
- Have the chain sharpened by a qualified service dealer if the teeth on your chain have become damaged or dull.

NOTICE: It is important to regularly inspect the drive sprocket for

wear and damage when you are replacing the chain. Have the drive sprocket replaced by a qualified service technician if any damage is found.

8.7 Transporting and storing

- a) Do not store or transport the power unit while it is running. Always remove the battery pack before storing or transporting.
- b) Always exercise caution to avoid the sharp blade, even when your machine is turned off.
- c) Always place the blade guard on the blade before storing or transporting. Use caution to avoid the sharp teeth of the blades. Fold the hedge trimmer to its storage position.
- d) Clean the unit thoroughly before storing.
- e) If the attachment is removed from the power head and stored separately: Fit the tube protective cap on the attachment shaft to avoid dirt getting into the shaft.
- f) Clean all foreign material from the power unit.
- g) Store the unit in a dry, well-ventilated area, locked-up or up high, out of the reach of children. Do not store the unit on or adjacent to fertilizers, gasoline, or other chemicals
- h) Keep away from corrosive agents such as garden chemicals and deicing salts.

9. TROUBLESHOOTING

The following chart lists problem symptoms, possible causes and corrective action, if your garden product does not operate properly. If these do not identify and correct the problem, contact our service center.



WARNING: Switch off and remove the battery prior to any troubleshooting.

PROBLEM	PROBABLE CAUSE	CORRECTIVE ACTION
Appliance fails to start	Battery is not secure	To secure the battery pack, make sure the battery pack snaps into place.
	Battery is depleted	Charge the battery pack.
	Possible wiring or electrical contact problems	Remove battery, check contacts and re-install the battery pack.
	The lock-off button is not pressed before pressing the trigger switch.	Press down the lock-off lever and hold it, then press the trigger to turn on the power unit.
	The blade is jammed.	Remove the battery pack from the tool. Remove the obstruction carefully and then reinsert the battery and restart the tool.
	The attachment is not well connected with the power head.	Disconnect the attachment from the power head. Reconnect them following the section "CONNECTING THE ATTACHMENT TO THE POWER HEAD" in this manual.
Appliance stops while cutting	The motor is overloaded	Remove the trimmer head from the grass. The motor will begin to work as soon as the load is removed.
	The battery pack or the unit is too hot	Allow the battery pack or the unit to cool down.
	The battery pack is disconnected	Re-install the battery pack.
	Battery is depleted	Charge the battery pack according to the instructions.
	Saw chain is bound in the branch.	Release the switch trigger, remove the saw chain and guide bar from the branch, then restart the pole saw.
	Debris inside sprocket cover.	Remove battery pack, then remove sprocket cover and clean out debris.

Motor runs, but chain does not rotate	Chain not engaging drive sprocket	Reinstall the chain, making sure the drive links on the chain are fully seated on the sprocket. See "Maintenance and Cleaning" in this manual for installation instructions.
Trimmer head does not advance line	The motor shaft or trimmer head is clogged with grass	Stop the trimmer, remove the battery, and clean the motor shaft and trimmer head.
	There is not enough line on the spool	Remove the battery and replace the cutting line; follow the section "REPLACING THE LINE" in this manual.
	The trimmer head is dirty	Remove the battery and clean the trimmer head.
	The line is tangled on the spool	Remove the battery, remove the line from the spool and rewind, follow the section "CUTTING LINE RE-ASSEMBLY" in this manual
	The line is inside the line cartridge	Remove the battery, remove the line from the spool and rewind, follow the section "CUTTING LINE RE-ASSEMBLY" in this manual.
Pole saw does not cut properly	Insufficient chain tension.	See "Checking and adjusting the chain tension" in this manual.
	Chain installed backwards.	See "Replacing the Bar and Chain" in this manual.
	Worn chain.	Replace the chain.
	Dry or excessively stretched chain	Check the oil level. Refill oil tank if necessary. Check for a clogged oil system. A small amount of oil should be delivered to the bar.

		this manual.
Bar and chain running hot and/or smoking.	Chain tension over tightened.	See "Checking and adjusting the chain tension" in this manual
	Oil tank empty.	Fill the oil into the oil tank.
	Debris in the guide bar groove.	Stop the chain saw, remove the battery, clean the debris.
Excessive vibration or noise	Dry or corroded blades	Lubricate the blades
	Blades or blade support is bent	Replace with a new blade or support following the section "REPLACING THE BLADE" in this manual or contact service center for replacement.
	Bent or damaged teeth.	Replace with a new blade following the section "REPLACING THE BLADE" in this manual or contact service center for replacement.
	Loose blade bolts.	Tighten the blade bolts. Using a 3mm hex wrench (not included), turn the bolt clockwise to tighten.

10. LIMITED WARRANTY

Possible material or production faults will be settled during the legal period of prescription for warranty claims depending on our choice by repair or replacement. This product has a warranty according to legislation of 24 months from the date of original purchase. This warranty covers all material and production faults. Not covered by warranty are damages and defects arising of improper use, accidents or modifications, as well as transport

costs. We reserve the right to reject any claims, if the purchase cannot be evidenced, or if the product obviously was not maintained properly. The sales receipt has to be kept to prove the sales date. In case of warranty claim please contact with this warranty bond and with your sales receipt our customer service (contacts on page.

1) By this warranty the legal claims on defects of the sellers against buyers remain unaffected.

11. ENVIRONMENTALLY FRIENDLY DISPOSAL



According to EU directive 2012/19/EU on electric and electronic equipment and its implementation into national law, all electric tools must be separately collected and environmentally friendly recycled. Alternative disposal: If the owner of the power tool does not return the tool to the manufacturer, he is responsible for proper disposal at a designated collection point that prepares the device for recycling according to national recycling laws and regulations.

This does not include accessories and tools without electric or electronic components.

Accumulator Disposal

Old Accumulators and batteries must not be added to household waste, but should be disposed of in accordance with the applicable legislation.

Take unusable rechargeable batteries to the dealer's or community's battery collection point.

Disposing of the packaging

The packaging is made of cardboard and separately labeled foil which is also recyclable.

Take these materials to a recycling centre.

Battery packs/batteries



Li-Ion

Do not dispose of batteries into household waste, water or fire. Battery packs/batteries must be collected, recycled or disposed of in an environmentally-friendly way.

Only for EC countries:

Defective or dead batteries must be recycled according to the directive 2006/66/EC

WARRANTY CARD

Product model	Date of sale
Serial number	Company
Username	Client's signature

The product is in good conditions and fully complete. Read and agree the terms of the warranty.

GUARANTEE

The warranty period starts from the date of sale of the products and covers 2 years for all power products.

During the warranty period, free failures caused due to the use of poor-quality materials in the production and manufacturer workmanship admitted fault are removed. The guarantee comes into force only when warranty card and cutting coupons are properly filled. The product is accepted for repair in its pure form and full completeness.

WARRANTY DOES NOT COVER

- Mechanical damage (cracks, chips, etc.) and damage caused by exposure to aggressive media, foreign objects inside the unit and air vents, as well as for damage occurred as a result of improper storage (corrosion of metal parts);
- Failures caused by overloading or product misuse, use of the product for other purposes. A sure sign of overload products is melting or discoloration of parts due to the high temperature, simultaneous failure of two or more nodes, tearing on the surfaces of the cylinder and the piston or destruction of piston rings. Also, the warranty does not cover failure of the automatic voltage regulator due to incorrect operation;
- Failure caused by clogging of the fuel and cooling systems;
- Wearing parts (carbon brushes, belts, rubber seals, oil seals, shock absorbers, springs, clutches, spark plugs, mufflers, nozzles, pulleys, guide rollers, cables, recoil starter, chucks, collets, removable batteries, filters and safety elements, grease, removable devices, equipment, knives, drills, etc.);
- Electrical cables with mechanical and thermal damage;
- Product opened or repaired by a non-authorized service center.
- Prevention, care products (cleaning, washing, lubrication, etc.), installation and configuration of the product;
- Natural wear products (production share);
- Failures caused by using the product for the needs related to business activities;
- If the warranty card is empty or missing seal (stamp) of the Seller;
- The absence of the holder's signature on the warranty card.


DAEWOO

Product _____
Model _____
Company _____
Date of sale _____

DAEWOO

Product _____
Model _____
Company _____
Date of sale _____

DAEWOO

Product _____
Model _____
Company _____
Date of sale _____



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