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1. GETTING TO KNOW YOUR MACHINE

1.1. How to read the manual.

1.1.1. Certain paragraphs in the manual contain particularly significant information and are marked with various levels of highlighting with the following meaning:

<table>
<thead>
<tr>
<th>DANGER</th>
<th>WARNING</th>
<th>CAUTION</th>
<th>NOTE</th>
<th>IMPORTANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-observance will result in the risk of serious injury or death to oneself or others.</td>
<td>Non-observance will result in the risk of injury to oneself or others.</td>
<td>Indicates a hazard which, if not avoided, might result in minor or moderate injury.</td>
<td>NOTE or IMPORTANT</td>
<td>These give details or further information on what has already been said, and aim to prevent damage to the machine or cause other damage.</td>
</tr>
</tbody>
</table>

1.2. Getting to know the machine.

1.2.1. This machine is a garden tool, and precisely a portable hedge trimmer with a battery-powered electric motor for home use.

1.2.2. The machine is basically composed of a power unit and a pair of serrated blades that are driven by a mechanism that provides an alternating straight movement.

1.2.3. The safety systems impede accidental movements of the blades while the operator is absent.

1.2.4. The operator can operate the machine and use the main controls, always keeping a safe distance from the cutting device.

1.3. Intended use.

1.3.1. This machine was designed and manufactured for felling, bucking and de-limbing trees with dimensions suitable for the length of the bar or wooden objects with the same characteristics.

1.4. Improper use.

1.4.1. Any other use differing from the above mentioned ones could be hazardous and harm people and/or damage things.

1.4.1.1. Examples of improper use may include, but are not limited to;

1.4.1.1.1. Trimming hedges;
1.4.1.1.2. Carving;
1.4.1.1.3. Sectioning pallets, crates and various packing materials;
1.4.1.1.4. Sectioning furniture or other materials with nails, screws or other metal components;
1.4.1.1.5. Butchering meat;
1.4.1.1.6. Using the machine to lift, move or split objects;

NOTE The images corresponding to the references are found on page 5 of this manual.
1.4.1.1.7. Using the machine while fasten to fixed supports.

1.4.2. Improper use of the machine will invalidate the warranty, relieve the manufacturer from all liabilities, and the user will consequently be liable for all and any damage or injury to himself or others.

2. **SAFETY REQUIREMENTS.**

2.1. Your machine must be used carefully.
   - 2.1.1. Symbols have therefore been placed on various parts of the machine to remind you of the main precautions to be taken.
   - 2.1.2. Their meaning is explained below. You are also asked to carefully read the safety regulations in the specific chapter of this manual.

2.2. Replace damaged or illegible labels.

<table>
<thead>
<tr>
<th><strong>DANGER</strong></th>
<th><strong>WARNING</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Failure to use this machine correctly can be hazardous for oneself and others.</td>
</tr>
</tbody>
</table>

2.2.1. If you are using the machine every day in normal conditions, you can be exposed to a noise level of 85 dB (A) or higher. Wear safety glasses and hearing protection.
   - 2.2.2. Do not leave the machine in the rain (or in damp conditions).
   - 2.2.3. Read the instruction manual before using the machine.
   - 2.2.4. Never throw used batteries into a fire - EXPLOSION RISK!
   - 2.2.5. Read all safety warnings and all instructions.
   - 2.2.6. Do not expose the battery to sunlight when the temperature exceeds 50°C.
   - 2.2.7. Lithium battery. Never dispose of these batteries with household waste.
   - 2.2.8. Do not wet.
   - 2.2.9. Recyclable product.

3. **SAFETY REGULATIONS**

| **WARNING** | Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. The vibration value may vary according to the usage of the machine and its fitted equipment, and be higher than the one indicated. Safety measures must be established to protect the user and must be based on the load estimate generated by the vibrations in real usage conditions. In this regard, all the operational cycle phases must be taken into consideration, such as switching off or idle running. |
| **NOTE**   | The vibration value indicated was determined with a standardized tool and can be used to make comparisons with other electric equipment as well as temporary estimates of the load through the vibrations. |
3.1. GENERAL POWER TOOL SAFETY

3.1.1. Work area safety.
   3.1.1.1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
   3.1.1.2. 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.
   3.1.1.3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

3.1.2. Electrical safety.
   3.1.2.1. 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.
   3.1.2.2. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

3.1.3. Personal safety
   3.1.3.1. 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 personal injury.
   3.1.3.2. 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.
   3.1.3.3. Prevent unintentional starting. Ensure that the machine is switched OFF before inserting the battery, picking up or carrying the power tool. Carrying the power tool with your finger on the switch or fitting battery with the switch ON can cause accidents.
   3.1.3.4. 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.
   3.1.3.5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
   3.1.3.6. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
   3.1.3.7. 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.

3.1.4. Power tool use and care.
   3.1.4.1. 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.
   3.1.4.2. 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.
   3.1.4.3. Remove the battery from its compartment before making any adjustments, changing accessories, or storing the power tool. Such preventive safety measures reduce the risk of starting the power tool accidentally.
3.1.4.4. 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.

3.1.4.5. Maintain power tools. Check for misalignment or obstruction of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

3.1.4.6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to become jammed and are easier to control.

3.1.4.7. 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. Using the power tool for operations other than those intended could result in a hazardous situation.

3.1.5. Service.

3.1.5.1. 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.

4. ELECTRIC CHAINSAW

The safety rules must be observed during machine use. Before starting the machine, read the instructions regarding personal safety and the safety of unauthorized persons. Keep the instructions in a good state for future use.

4.1. Safety warning.

4.1.1. Keep all parts of the body away from the saw chain when the chain saw is operating. Before you start the chain saw, make sure the saw chain is not contacting anything. A moment of inattention while operating chain saws may cause entanglement of your clothing or body with the saw chain.

4.1.2. Always hold the chainsaw with your right hand on the rear handle and your left hand on the front handle. Holding the chain saw with a reversed hand configuration increases the risk of personal injury and should never be done.

4.1.3. 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 chain saw.

4.1.4. DO NOT operate a chain saw in a tree. Operation of a chain saw while up a tree may result in personal injury.

4.1.5. Always keep proper footing and operate the chain 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 chain saw.

4.1.6. When cutting a limb that is under tension be alert for spring back. When the tension in the wood fibres is released the spring loaded limb may strike the operator and/or throw the chain saw out of control.

4.1.7. DO NOT use for cutting brush and saplings. The tender slender material may catch the saw chain and be whipped toward you or pull you off balance.
4.1.8. Carry the chain saw by the front handle with the chain saw switched off and away you’re your body. When transporting or storing the chain saw always fit the guide bar cover. Proper handling of the chain saw will reduce the likelihood of accidental contact with the moving saw chain.

4.1.9. Follow instructions for lubricating, chain tensioning and changing accessories improperly tensioned or lubricated chain may either break or increase the chance for kickback.

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

4.1.11. Cut wood only. DO NOT use chain saw for purposes not intended. For example: do not use chain saw for cutting plastic, masonry or non-wood building materials. Use of the chain saw for operations different than intended could result in a hazardous situation.

4.2. Causes and Operator prevention of kickback.

4.2.1. Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a sudden reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator.

4.2.2. Either of these reactions may cause you to lose control of the saw which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw.

4.2.3. As a chain saw user, you should take several steps to keep your cutting jobs free from accident or injury.

4.2.4. Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below;

4.2.4.1. Maintain a firm grip, with thumbs and fingers encircling the chain saw handles, with both hands on the saw 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 chain saw.

4.2.4.2. DO NOT overreach and DO NOT cut above shoulder der height. This helps prevent unintended tip contact and enables better control of the chain saw in unexpected situations.

4.2.4.3. Only use replacement bars and chains specified by the manufacturer. Incorrect replacement bars may cause chain breakage and/or kickback.

4.2.4.4. Follow the manufactures sharpening and maintenance instructions for the saw chain. Decreasing the depth gauge height can lead to increased kickback.

4.3. Techniques for using the chain saw.

4.3.1. Always observe the safety regulations and use the most suitable sawing techniques.

4.4. Safe carrying of the chain saw;

4.4.1. Whenever the machine is to be handled or transported you must;

4.4.1.1. Turn off the engine, wait for the chain to stop and unplug the machine from the mains;

4.4.1.2. Mount the bar cover;

4.4.1.3. Only hold the machine using the handgrips and position the bar in the opposite direction to that used during operation.

4.4.1.4. When using a vehicle to transport the machine, position it so that it can cause no danger to persons and is secured firmly.
4.5. Recommendations for first time users.
   4.5.1. Before felling or de-limbing for the first time make sure;
       4.5.1.1. You have been specifically trained to use this type of equipment;
       4.5.1.2. You have carefully read the safety regulations and user instructions contained in this manual;
       4.5.1.3. You practise first on logs on the ground or attached to trestles, in order to get familiar with the machine and the most suitable cutting techniques.

4.6. How to handle and use battery operated power tools.
   4.6.1. Make sure that the tool is switched OFF before inserting the battery. Inserting a battery in a power tool which is switched on can cause accidents.
   4.6.2. When charging batteries, only use battery chargers recommended by the Manufacturer. Battery chargers are generally designed for use with specific types of batteries; fire risks can occur if other types are used.
   4.6.3. Use the batteries specifically designed for your power tool only. The use of other batteries may be hazardous and cause injuries and cause injury.
   4.6.4. Place all unused batteries at a distance from paper clips, coins, keys, nails, screws or other small metal objects as contact with the same can cause short circuits. Short circuits among battery contacts can lead to explosion or fires.
   4.6.5. Liquid can leak from batteries when they are in bad condition. Avoid all contact with this liquid. Rinse thoroughly with water if accidental contact occurs. If the liquid comes into contact with the eyes, call a doctor immediately. Liquid leaks from batteries can cause skin irritation and even burns.
   4.6.6. Check that the battery is in good working condition and there are no signs of damage. Never use the machine with a worn or damaged battery.

4.7. User instructions for Batteries.
   4.7.1. General precautions.
       4.7.1.1. The battery must never be opened.
       4.7.1.2. Never throw used batteries into a fire EXPLOSION RISK!
       4.7.1.3. Connect the battery charger to power sockets carrying the voltage indicated on the manufacturer’s rating plate.
       4.7.1.4. Use original batteries only.
       4.7.1.5. The battery may heat up when used for a certain length of time. Allow it to cool down before recharging it.
       4.7.1.6. Never leave the battery or battery charger within the reach of children.
       4.7.1.7. Never use the battery charger in zones where flammable vapours or substances are present.
       4.7.1.8. Recharge batteries at a temperature of between 10° and 40 °C only.
       4.7.1.9. Never store batteries in environments with temperatures of over 40 °C.
       4.7.1.10. Never cause short circuits between the battery contacts and never connect them to metal objects.
       4.7.1.11. When transporting batteries, make sure the contacts never come into contact with each other and never use or pack them in metal containers.
       4.7.1.12. Short circuit of the battery can cause an explosion. In any case, short circuits will cause severe damage to the battery.
4.7.1.13. Check the battery charger cable is not damaged on a regular basis. If the cable gets damaged, the whole battery charger must be replaced.
4.7.1.14. Recharge the batteries completely before storing them away in winter.
4.7.1.15. The battery can only be charged by charger comply with EN60335-2-29.

5. **MACHINE PARTS**

<table>
<thead>
<tr>
<th>1. Power unit.</th>
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<tbody>
<tr>
<td>2. Spiked bumper.</td>
</tr>
<tr>
<td>3. Front hand guard.</td>
</tr>
<tr>
<td>4. Front handgrip.</td>
</tr>
<tr>
<td>5. Rear handgrip.</td>
</tr>
<tr>
<td>6. Chain catcher device.</td>
</tr>
<tr>
<td>7. Bar.</td>
</tr>
<tr>
<td>8. Chain.</td>
</tr>
<tr>
<td>10. Trigger switch.</td>
</tr>
<tr>
<td>11. Safety button.</td>
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<tr>
<td>12. Chain oil tank cap.</td>
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<tr>
<td>13. Chain oil gauge.</td>
</tr>
<tr>
<td>15. Battery charger.</td>
</tr>
</tbody>
</table>
6. OPERATING INSTRUCTIONS

**WARNING**
Mount the components very carefully so as not to impair the safety and efficiency of the machine. If in doubt, contact your dealer.

Unpacking and completing the assembly should be done on a flat and stable surface, with enough space for moving the machine and its packaging, always making use of suitable equipment.

**NOTE**
The figures mentioned in the text of this manual are found on pages 10 & 11.


6.1.1. Disposal of the packaging should be done in accordance with the local regulations in force.

6.1.2. For safety and transportation reasons, the lithium ion battery (if supplied) is delivered separately from the machine and partially charged.

6.1.3. Charge the battery before using the tool following the instructions in the chapter ‘Charging the Battery’.

6.2. Bar and chain mounting.

**WARNING**
Always wear heavy-duty gloves when handling the bar and chain. Mount the bar and chain very carefully so as not to impair the safety and efficiency of the machine. If in doubt, contact your dealer.

Make sure the battery is not inserted in its housing.

6.2.1. Before fitting the bar, make sure the chain brake is not engaged; this is done by pulling the front hand guard right back towards the body of the machine.

6.2.1.1. Unscrew the handle (1) and remove the guard to get to the drive sprocket and the point where the bar is fitted (Fig 1).

6.2.1.2. Mount the chain in the right direction on the bar. If the tip of the bar has a nose sprocket, make sure the drive links are correctly inserted in the sprocket rims (Fig. 2).
6.2.1.3. Mount the bar (2) inserting the stud bolt in the bar’s hole using the tension adjuster (2a); move the bar towards the back of the machine body (Fig. 3).
6.2.1.4. Wind the chain around the drive sprocket (Fig. 4) and push the bar forward to achieve an initial tensioning of the chain.
6.2.1.5. Fit the guard back on, screwing on the knob (1) without tightening it (Fig. 5).
6.2.1.6. Turn the ring (3) clockwise until you find right chain tension (Fig. 5).
6.2.1.7. Raise the bar and tighten the knob (1) securely (Fig. 6).

6.3. Checking the machine.

<table>
<thead>
<tr>
<th>WARNING</th>
<th>Ensure that the battery is not inserted in its compartment.</th>
</tr>
</thead>
</table>

6.3.1. Before starting work please;

6.3.1.1. Insert the battery in its housing.
6.3.1.2. Check that all the screws on the machine and the bar are tightly fastened;
6.3.1.3. Check that the chain is tensioned correctly, sharp and there are no signs of any damage;
6.3.1.4. Check that handgrips and protection devices are clean and dry, correctly mounted and well fastened to the machine;
6.3.1.5. Check that the chain brake is working efficiently;
6.3.1.6. Check that the trigger switch and the safety button should move freely without forcing and return automatically and rapidly back to their neutral position;
6.3.1.7. Check that the trigger switch must remain locked until the safety button is pressed;
6.3.1.8. Make sure the cooling air vents are not clogged up with sawdust or debris;
6.3.1.9. Check that the chain’s oil level is not below the «MIN» level mark and top up to 1 cm from the rim of the filler.

6.3.2. Checking the chain tension.

<table>
<thead>
<tr>
<th>WARNING</th>
<th>Ensure that the battery is not inserted in its compartment.</th>
</tr>
</thead>
</table>

6.3.2.1. Loosen the handle (1). (Fig. 5).
6.3.2.2. Turn the ring-nut (3) to obtain the desired chain tension level (Fig. 5).
6.3.2.3. Raise the bar and tighten the handle (1) securely (Fig. 6).
6.3.2.4. The tension is correct when the drive links do not slip out of the chain guides if you hold the chain in the middle of the bar (Fig. 7).
6.3.2.5. Loosen the brake by pressing both the switch and the safety button. Using a screwdriver, run the chain along the guides to check that it moves smoothly.

6.3.3. Checking the chain brake.

<table>
<thead>
<tr>
<th>WARNING</th>
<th>DO NOT use the machine if the chain brake does not function correctly and have it inspected by your dealer.</th>
</tr>
</thead>
</table>

6.3.3.1. This machine is equipped with a double braking system that intervenes in two situations:
6.3.3.2. When the switch lever is released, a brake is automatically activated that slows and stops chain movement, in order to prevent the risk of injury should the chain continue to turn after it has been switched off?

6.3.3.3. In the event of a kickback while working, following an irregular contact of the tip of the bar, with a brusque upward movement that causes the hand to strike the front guard. In this case, the brake blocks chain movement and must be released manually in order to disengage it.

6.3.3.4. This brake can be operated manually by pushing the front guard forward. To release the brake, pull the front guard towards the handgrip until you hear a click.

6.3.3.5. To check that the brake works efficiently proceed as follows;

6.3.3.6. Start the engine by holding the front handgrip and push the front hand guard forwards with your thumb (towards the bar).

6.3.3.7. When the brake is engaged, release the trigger switch.

6.3.3.8. The chain must stop as soon as the brake is engaged.

6.3.4. Chain lubricant.

| NOTE | Only use chain-saw oil or adhesive oil for chain-saws. Do not use oil containing impurities, to avoid clogging the tank filter and permanently damaging the oiler. The chain lubricating oil is bio-degradable. The use of mineral oil or engine oil can have a serious impact on the environment. Before each machine use, the oil level should be checked and topped up to 1 cm from the rim of the filler. The oil level must not drop below the «MIN» level mark. |

6.3.4.1. It is essential that you use good quality oil to lubricate the cutting parts effectively.

6.3.4.2. Used or poor quality oil does not guarantee good lubrication and reduces the duration of the chain and bar.

6.4. Charging the battery.

| NOTE | Check that the socket mains voltage is the same as that indicated on the battery charger plate. |

<table>
<thead>
<tr>
<th>Battery charger (1)</th>
<th>Battery pack (2)</th>
<th>Battery pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power-Light (3)</td>
<td>Charge-Light (4)</td>
<td>Test button (5)</td>
</tr>
<tr>
<td>Charge status lights (6)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6.4.1. Remove the battery from the machine,
6.4.2. To recharge the battery,

6.4.2.1. Connect the battery charger (1) to a mains power socket; a green power light (3) will come on indicating there is voltage.

6.4.2.2. Insert the battery pack (2) into the battery charger (1), pushing it in completely. Recharging a completely flat battery requires approximately 100 minutes.

6.4.2.3. The recharging phases are indicated by the charge status lights (6),

6.4.2.4. Battery charger connected = Green charge light (4) is on.

6.4.2.5. Battery inserted and recharging in progress = Green power light (3) on and Charge light (4) on (Red when charging).

6.4.2.6. Recharging completed = Green charge light (4) on and Charge light (4) on (Green when charged).

6.4.3. Irregular condition = Green power light (3) flashing + Charge light (4) flashing.

6.4.4. Short circuit = Charge light (4) flashing RED.

6.4.5. Recharging a completely flat battery requires approximately 100 minutes.

6.4.6. When recharging has been completed;

6.4.7. Remove the battery pack (2) from the battery charger (1) and refit it on the machine.

6.4.8. Disconnect the battery charger (1) from the mains power socket.

6.5. Checking the battery status.

6.5.1. To check the condition of the battery charge status press the small button (5) which activates three charge status lights (6) which indicate the following;

- Three LED lights on = Power reserve = 3/3 (Full)
- Two LED lights on = Power reserve ≥ 2/3
- One LED light on = Power reserve ≤ 1/3 (Full)
- No LED light on = Power battery FLAT

6.6. Managing the battery.

6.6.1. The battery must be kept in environments where the temperature is not in the range of 0°C +45°C. If the machine is stored in places where the temperature could exceed those limits, please remove the battery and keep it in a suitable place.

6.6.2. During use, the battery is protected against total drainage with a protective device that switches OFF the machine and stops it from working.

6.6.3. The battery is equipped with a guard that inhibits recharging if the environmental temperature is not in the range of 0°C +45°C.

6.6.4. The battery can be recharged at any time, even partially, with no risk of damaging it.

6.7. Using the machine.

![NOTE] When you release the switch, the safety button is also released and the engine stops.

6.7.1. Starting the machine (Fig 10).

6.7.1.1. Before starting the machine;

6.7.1.1.1. Insert the battery (1) in its housing.
6.7.1.2. To start the machine;
   6.7.1.2.1. Take off the bar cover.
   6.7.1.2.2. Make sure the bar is not touching the ground or any other object.
   6.7.1.2.3. Disengage the chain brake (5) by pulling the front hand guard towards the
                front handgrip.
   6.7.1.2.4. Hold the chain saw firmly with both hands.
   6.7.1.2.5. Press the safety button (6) and then the switch (7).

<table>
<thead>
<tr>
<th>NOTE</th>
<th>When you release the switch, the safety button is also released and the engine stops.</th>
</tr>
</thead>
</table>

6.7.2. Stopping the machine (Fig 3).
   6.7.2.1. To stop the machine;
       6.7.2.1.1. Release the switch (7).
       6.7.2.1.2. Lift the tab (1a) and pull out the battery (1).

6.8. Operating modes and work techniques.

<table>
<thead>
<tr>
<th>WARNING</th>
<th>For your safety and that of others.</th>
</tr>
</thead>
</table>

6.8.1. Do not use the machine without having read the instructions carefully. Become acquainted
       with the controls and the proper use of the machine. Learn how to stop the motor quickly.
6.8.2. Keep in mind that the operator or user is responsible for accidents or hazards occurring to
       other people or their property.
6.8.3. Always wear suitable clothing when using the machine. Your dealer can provide you with all
       the information on the most suitable accident-prevention devices to guarantee your safety.
       Wear anti-vibration gloves. All the above-mentioned precautions do not however guarantee
       the prevention of certain risks – i.e. Raynaud’s phenomenon or Carpal tunnel syndrome. For
       operators who use this machine for prolonged periods, it is therefore recommended to have
       periodic check-ups on the hands and fingers. If any of the above mentioned symptoms should
       appear, please contact a physician immediately.
6.8.4. Work only in daylight or good artificial light.
6.8.5. Take utmost care when working near metal fences.
6.8.6. Take care not to hit the bar hard against foreign objects or flying debris caused by the
       movement of the chain.
6.8.7. Stop the motor and remove the battery from its compartment.
       6.8.7.1. Whenever you leave the machine unattended;
       6.8.7.2. Before cleaning, checking or servicing the machine;
       6.8.7.3. After striking a foreign object. Inspect the machine for any damage and make repairs
       6.8.7.4. before restarting it again;
       6.8.7.5. If the machine begins to abnormally vibrate immediately look for the cause of the
                  vibrations and take all necessary steps to stop the vibration. If you cannot find the cause
                  take your machine to your local dealer.
       6.8.7.6. When the machine is not in use.
6.9. Checks during work.

<table>
<thead>
<tr>
<th>NOTE</th>
<th>Always remember that an incorrectly used chain-saw may disturb others and have a serious impact on the environment. To respect people and the environment; Avoid using the machine in environments or at times of the day when it may disturb others. You MUST comply with local regulations and provisions for the disposal of waste materials after sawing. You MUST comply with local regulations and provisions for the disposal of oils, damaged parts or any elements which have a strong impact on the environment. A certain amount of chain lubricating oil is released into the environment when the machine is running, so only use biodegradable oils made specifically for this use. To avoid the risk of fire, do not leave the machine with the engine hot on leaves or dry grass.</th>
</tr>
</thead>
</table>

| WARNING | It takes specific training to use the machine for felling and de-limbing. |
| WARNING | Prolonged exposure to vibrations can cause injuries and neurovascular disorders (also called “Renaud’s syndrome” or “white hand”), especially to people suffering from circulation disorders. The symptoms can regard the hands, wrists and fingers and are shown through loss of sensitivity, torpor, itching, pain and discolouring of or structural changes to the skin. These effects can be worsened by low ambient temperatures and/or by gripping the handgrips excessively tightly. If the symptoms occur, the length of time the machine is used must be reduced and a doctor consulted. |
| WARNING | Never work with the chain loose, as it can be hazardous if the chain slips out of its guides. |

6.9.1. Checking the chain tension.

6.9.1.1. The chain tends to stretch gradually as you work, so you need to check its tension frequently.

6.9.1.2. To adjust the chain tension, follow the instructions in section 6.3.2.

6.9.2. Checking the oil delivery.

| WARNING | Make sure the bar and the chain are in place when you check the oil delivery. |
| NOTE | Never use the machine without lubrication! You can check the oil level in the tank through the transparent gauge. Make sure you fill up the oil tank every time you use the machine. |

6.9.2.1. Run motor and check if the chain oil is delivered as shown in Fig 11.
6.10. Directions for use.

**WARNING**

Always hold the machine with both hands when sawing.
Stop the motor immediately if the chain stops during sawing. Beware of kickback, which can occur if the bar contacts an obstacle.
Be careful of where the branches are lying on the ground, the risk of them being under tension, the direction the branch may go during cutting and the risk of the tree being unstable after the branch has been cut.

6.10.1. Before felling or de-limbing for the first time, practise sawing logs on the ground or on trestles, so that you can get familiar with the machine and the most suitable sawing techniques.

6.11. End of work.

**WARNING**

Allow the motor to cool before storing in any enclosure.
To reduce fire hazards, clean the machine thoroughly to get rid of any remains of grass, leaves or excess grease, never leave containers with the cut debris inside the storage area.

6.11.1. Switch OFF the machine please follow 6.4.2. Stopping the machine (Fig 3).
6.11.2. Wait for the chain to stop and allow the machine to cool.
6.11.3. Remove any traces of sawdust or oil deposits from the chain.
6.11.4. If there is excessive dirt or resin build-up, disassemble the chain and place it in a container with a specific cleanser. Then rinse it with clean water and treat it with a suitable anticorrosive spray, before reassembling on the machine.

6.11.5. Fit the bar cover before reassembling the machine.
7. MAINTENANCE

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>During maintenance, remove the battery from its compartment. Use protective gloves when handling the bar and chain. Keep the bar protection devices on, except when intervening directly on the bar or the chain. Never dispose of oils or other polluting materials in unauthorised places. For your safety and that of others you must follow the following instructions.</td>
</tr>
</tbody>
</table>

7.1. General.
7.1.1. After each use, remove the battery from its compartment and check for damage.
7.1.2. Correct maintenance is essential to maintain the original efficiency and safety of the machine over time.
7.1.3. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
7.1.4. Never use the machine with worn or damaged parts. Damaged parts are to be replaced and never repaired.
7.1.5. Only use original spare parts. Parts that are not of the same quality can seriously damage the equipment and compromise safety.

7.2. Motor cooling.
7.2.1. To avoid overheating and damage to the motor, always keep the cooling air vents clean and free of sawdust and debris.

7.3. Chain brake.
7.3.1. Regularly check the effectiveness of the chain brake.

7.4. Chain catcher device.
7.4.1. This device, built into the casing, is an important safety device that restrains uncontrolled movements of the chain if it breaks or slackens.

7.5. Nuts and screws.
7.5.1. Periodically check that all the nuts and screws are securely tightened and the handgrips are tightly fastened.

7.6. Sharpening the blade.

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make sure that the battery has been removed. To ensure that the chain-saw works safely and efficiently, it is essential that the cutting components are well-sharpened. Any work on the chain and bar require specific experience and special tools. For safety purposes, we recommend you contact your dealer to ensure work is done correctly.</td>
</tr>
</tbody>
</table>

7.6.1. Sharpening is necessary when;
7.6.1.1. The sawdust looks like dust.
7.6.1.2. Cutting becomes more difficult.
7.6.1.3. The cut is not straight.
7.6.1.4. Vibrations increase.
7.6.2. A specialized centre will sharpen the chain using the right tools to ensure minimum removal of material and even sharpness on all the cutting edges.

7.6.3. If you sharpen the chain yourself, use special round-section files with the right diameter. Depending on the type of chain (see “Chain Maintenance Table”). You need a certain amount of skill and experience to avoid damaging the cutting edges.

7.6.4. Sharpen the chain as follows (Fig 17).
   7.6.4.1. Secure the bar firmly with the chain mounted in a suitable vice.
   7.6.4.2. Tighten the chain if it is loose.
   7.6.4.3. Mount the file in the guide and then insert it in the tooth at a constant angle from the cutting edge.
   7.6.4.4. Sharpen in a forward motion a few times and repeat this on all the cutting edges facing the same way (right or left).
   7.6.4.5. To move the chain forward, use the switch to release the brake, then use a screwdriver to make the chain run.
   7.6.4.6. Turn the bar over in the vice and repeat on all the other cutting edges.
   7.6.4.7. Check that the limiter tooth does not stick out further than the inspection instrument and file any projecting parts with a flat file, rounding off the edge.
   7.6.4.8. After sharpening, remove all traces of filing and dust and lubricate the chain in an oil bath.

7.6.5. Replace the chain whenever;
   7.6.5.1. The length of the cutting edges reduces to 5 mm or less;
   7.6.5.2. There is too much play between the links and the rivets.

7.7. Chain maintenance table.

<table>
<thead>
<tr>
<th>Chain pitch</th>
<th>Limit tooth level (a)</th>
<th>File diameter (d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>3/8 Mini</td>
<td>9.32</td>
<td>0.018</td>
</tr>
<tr>
<td>0.325</td>
<td>8.25</td>
<td>0.026</td>
</tr>
<tr>
<td>3/8</td>
<td>9.32</td>
<td>0.026</td>
</tr>
<tr>
<td>0.404</td>
<td>10.26</td>
<td>0.031</td>
</tr>
</tbody>
</table>

7.8. Bar maintenance.
   7.8.1. To avoid asymmetrical wear on the bar, make sure it is turned over periodically.
   7.8.2. To keep the bar in perfect working order, proceed as follows (Fig. 18);
   7.8.2.1. Grease the bearings on the nose sprocket (if present) with the syringe.
   7.8.2.2. Clean the bar groove with the scraper.
   7.8.2.3. Clean the lubrication holes.

![WARNING]

The characteristic data of the chain and bar homologated for this machine are shown in the “EC Conformity Statement” that accompanies the same machine. Do not use other types of chains or bars for safety reasons. The table gives the sharpening data for different types of chains, but this does not mean you can use different chains from the homologated one.

![Chain pitch]

![File diameter (d)]
7.8.2.4. With a flat file, remove burrs from edges and level, off guides.

7.8.3. Replace the bar whenever (Fig. 18);
    7.8.3.1. The groove is not as deep as the height of the drive links (which must never touch the bottom);
    7.8.3.2. The inside of the guide is worn enough to make the chain lean to one side.
7.8.4. To avoid asymmetrical wear on the bar, make sure it is turned over periodically.
7.8.5. If it should be necessary to turn the bar over or replace it, follow the instructions below (Fig. 19);
    7.8.5.1. Remove the casing, the chain and the bar, carefully following the instructions provided in Chap. 1.1;
    7.8.5.2. Remove the screw (1) using a cross-head screwdriver and remove the tension adjuster (2);

**WARNING**

When initially assembled, a “thread locker” was inserted on the screw thread to prevent it from accidentally working loose, this means that a certain amount of force will be needed to remove the screw; use a clamp to block the bar in place and always use a suitable sized screwdriver.

7.8.6. Reassemble the tension adjuster (2) on the other side of the overturned bar, or on the new bar;
    7.8.6.1. Apply a small amount of “thread locker” on two or three screw threads (1) (following the instructions provided by the manufacturer), then tighten the screw as far as possible (1);
    7.8.6.2. Replace the bar, the chain and the casing, following the instructions provided in section 6.2.

7.9. Empty and flushing the oil tank (Only if organic oil is used for the chain).
    7.9.1. The use of some types of organic oil may cause deposits or fouling after a certain period of use.
    7.9.2. If this happens, before leaving the machine unused for a long period of time;
        7.9.2.1. Disassemble the chain and the bar;
        7.9.2.2. Empty the oil tank;
        7.9.2.3. Pour a specific liquid cleanser in the tank, to about half the maximum level;
        7.9.2.4. Close the tank cap and operate the machine until all the cleanser runs out.
    7.9.3. Remember to fill with oil, before using the machine again.

7.10. Storage.
    7.10.1. After every work period, clean the machine thoroughly to remove all dust and debris, and repair or replace any faulty parts.
    7.10.2. The machine must be stored in a dry place away from the elements and out of the reach of children.

7.11. Extraordinary maintenance.
    7.11.1. All maintenance operations not foreseen in this manual must be performed exclusively by your dealer.
    7.11.2. All and any operations performed in unauthorised centres or unqualified person will invalidate the warranty.
7.12. Chain sprocket (Fig 19).
   7.12.1. Regularly check the condition of the sprocket and replace it when wear exceeds 0.5 mm.
   7.12.2. Do not mount a new chain with a worn sprocket or vice-versa.
8. **TROUBLESHOOTING**

<table>
<thead>
<tr>
<th>Fault</th>
<th>Source of problem</th>
<th>Corrective action</th>
</tr>
</thead>
<tbody>
<tr>
<td>The motor does not start when you switch it on.</td>
<td>No battery or not inserted.</td>
<td>Make sure that the battery is installed correctly.</td>
</tr>
<tr>
<td></td>
<td>Battery exhausted.</td>
<td>Check charge status and recharge the battery</td>
</tr>
<tr>
<td>The motor stops during operation.</td>
<td>Battery not inserted correctly.</td>
<td>Make sure that the battery is installed correctly.</td>
</tr>
<tr>
<td></td>
<td>Battery exhausted.</td>
<td>Check charge status and recharge the battery</td>
</tr>
<tr>
<td>Reduced battery power reserve</td>
<td>Difficult operating conditions drawing more current.</td>
<td>Reduce load on machine.</td>
</tr>
<tr>
<td>The battery charger does not charge the battery</td>
<td>Dirty contacts.</td>
<td>Clean contacts.</td>
</tr>
<tr>
<td>(green indicator light on).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The battery charger does not charge the battery</td>
<td>No power supply to battery Charger.</td>
<td>Check the plug is inserted and that the socket is live.</td>
</tr>
<tr>
<td>(no red led on).</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Defective battery charger</td>
<td>Replace with original spare part.</td>
</tr>
</tbody>
</table>

9. **SPECIFICATION**

<table>
<thead>
<tr>
<th>HYC36Li Chainsaw</th>
<th>Battery charger supply vac/Hz</th>
<th>230/50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery type</td>
<td>Samsung Lithium ion</td>
<td></td>
</tr>
<tr>
<td>Battery voltage vdc</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Battery capacity Ah</td>
<td>2.6</td>
<td></td>
</tr>
<tr>
<td>Charging time h</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>Bar length mm</td>
<td>305</td>
<td></td>
</tr>
<tr>
<td>Chain speed m/s</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Oil tank capacity ml</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>No load speed rpm</td>
<td>4400</td>
<td></td>
</tr>
<tr>
<td>Cutting length mm</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Net weight including battery kg</td>
<td>5.7</td>
<td></td>
</tr>
<tr>
<td>Gross weight kg</td>
<td>7.35</td>
<td></td>
</tr>
<tr>
<td>Box size L x W x H</td>
<td>415 x 235 x 290</td>
<td></td>
</tr>
</tbody>
</table>

10. **ENVIRONMENTAL**

10.1. Do not dispose of electric equipment together with household waste material! In observance of European Directive 2012/19/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility. If electrical appliances are disposed of in landfills or dumps hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

10.2. For further information on the disposal of this product, please contact your dealer or your nearest domestic waste collection service.
10.3. Reduce – Reuse - Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.

10.4. When the product is no longer required, it must be disposed of in a manner which is compatible with the environment.

11. GENPOWER CONTACT DETAILS

11.1. Postal address;


11.2. Telephone contact number;

Office +44 (0)1646 687880

11.3. Email contact;

Technical service@genpower.co.uk

11.4. Web site;

www.hyundaipowerequipment.co.uk
12. DECLARATIONS OF CONFORMITY

12.1. Genpower Ltd confirms that this Hyundai product conform to the following CE Directives;

12.1.1. 2006/42/EC Machinery Directive
12.1.2. 2004/108/EC EMC Directive
12.1.3. 2000/14/EC, Amended by 2005/88/EC (as amended)

EC DECLARATION OF CONFORMITY

The undersigned, as authorised by: Genpower Ltd

Declares that the following equipment manufactured under licence by Hyundai Korea

Conforms to the Directive: -

2000/14/EC, Amended by 2005/88/EC (as amended)


Equipment Category: Chainsaw
Product Name/Model: Hyundai HYC36Li (YT4338-01)
Type/Serial No: Battery Powered Chainsaw
Net installed power: 0.096 kW

The technical documentation is kept by: Kevin Stanley, Genpower Ltd, Isaac Way, Pembroke Dock, Pembrokeshire, SA72 4RW.

The conformity assessment procedure followed was in accordance with annex V of the Directive.

Notified Body: Intertek Deutschland GmbH, Stangenstraße 1, 70771 Leinfelden-Echterdingen,

Certificate Ref: 13SHW1811-01

Measured Sound Power Level: 100 dB (A) - (99.9 dB (A))
Guaranteed Sound Power Level: 103 dB (A)

A copy of this certificate has been submitted to the European Commission and to EU Member State United Kingdom.

Place of Declaration: Pembroke Dock, SA72 4RW.

Date: 24/11/2014
Signed by: Kevin Stanley
Position in Company: Product Manager
Name and address of manufacturer or Authorised representative: Genpower Ltd, Isaac Way, Pembroke Dock, Pembrokeshire, SA72 4RW.