HYUNDAI PETROL CHAINSAW MODEL HY6222



User Manual

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CE

QUICK START GUIDE

- 1. Apply chain brake.
- 2. Fill with fresh 2-stroke petrol and synthetic oil mixed at 40:1 ratio.
- 3. Fill chain lubricant chamber.
- 4. Pump primer bulb 6 times.
- 5. Switch ON/OFF switch to ON.
- 6. Pull out choke lever.
- 7. With chainsaw on the ground, put your right foot on rear handle to secure it.
- 8. Pull starter handle quickly.
- 9. After about 2-3 pulls the engine may fire slightly. If you continue to pull with choke OUT it will flood the engine.
- 10. Push choke IN.
- 11. Pull starter handle quickly and chainsaw engine should start.

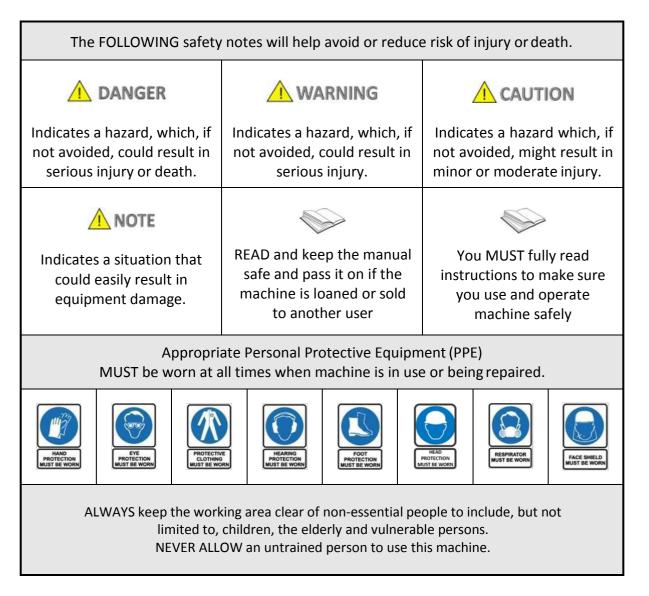
With a hot chainsaw, you may not need to use the choke. If it is warm, maybe half choke.

1. <u>SAFETY</u>

- 1.1. General safety notes.
 - 1.1.1. The operator of the machine is responsible for, and has a duty of care in making sure that the machine is operated safely and in accordance with the instructions in this user manual. Keep the manual safe and pass it on if the machine is loaned or sold to another user.
 - 1.1.2. Please note the following safety points.
 - 1.1.2.1. The machine should never be left it in a condition which would allow an untrained or unauthorised person/s to operate this machine.

1.1.2.1.1. All due care and diligence should be taken by the operator for the safety of, and with regard to, those around whilst using the machine.

1.1.2.1.2. Some or all of the following - warning signs, symbols and/or PPE pictograms may appear throughout this manual. You MUST adhere to their warning/s. Failure to do so may result in personal injury to yourself or those around you.



- 1.2. Carbon monoxide.
 - 1.2.1. Carbon monoxide is a colourless and odourless gas. Inhaling this gas can cause death as well as serious long term health problems such as brain damage.
 - 1.2.2. The symptoms of carbon monoxide poisoning can include but are not limited to the following;

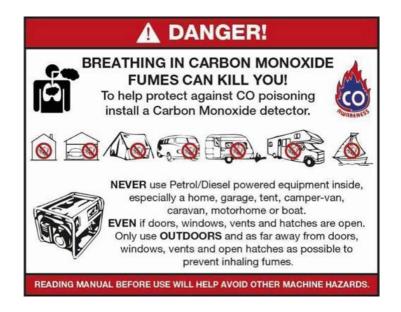
Headaches, dizziness, nausea, breathlessness, collapsing or loss of consciousness.

- 1.2.2.1. Carbon monoxide poisoning symptoms are similar to flu, food poisoning, viral infections and simply tiredness. It is quite common for people to mistake this very dangerous poisoning for something else.
- 1.2.2.2. To avoid carbon monoxide poisoning DO NOT use Petrol/Dieselpowered equipment inside any of the following;

Home, garage, tent, camper van, mobile home, caravan or boat.

This list is not exhaustive and if you are in any doubt contact your dealer.

- 1.2.3. If you think you have or someone around you has been affected by carbon monoxide poisoning;
 - 1.2.3.1. Get them fresh air immediately, by leaving the affected area or by opening doors and windows. If safe and practical to do so make sure that the machine is turned off. DO NOT enter a room you suspect of having carbon monoxide present instead call the emergency services.
 - 1.2.3.2. Contact a doctor immediately or go to hospital let them know that you suspect carbon monoxide poisoning.
- 1.2.4. **DO NOT** use in an enclosed area or a moving vehicle.



1.3. General fuel safety.



ALL FUELS ARE FLAMMABLE

1.3.1. Fire hazard - keep fuel away from all sources of ignition for example heaters, lamps, sparks from grinding or welding.



1.3.2. DO NOT carry out hot work on tanks that have contained fuel it is extremely dangerous.

- 1.3.3. ALWAYS keep work area clean and tidy.
- 1.3.4. ALWAYS clean up all spills promptly using correct methods i.e. absorbent granules and a lidded bin.
- 1.3.5. ALWAYS dispose of waste fuels correctly.
- 1.4. Fueling/De-fueling (where applicable).
 - 1.4.1. ALWAYS fuel and defuel in a well-ventilated area outside of buildings.
 - 1.4.2. ALWAYS wear correct, suitable and fit for purpose Personal Protective Equipment (PPE), suggested items are but not limited to safety gloves and overalls.



- 1.4.3. When fueling/de-fueling ALWAYS avoid inhaling fumes
- 1.4.4. When de-fueling ALWAYS use a propriety fuel retriever.
- 1.4.5. ALWAYS carry fuel in the correct and clearly marked container.



- 1.5. Vibrations.
 - 1.5.1. Prolonged use of hand held (operated) machines will cause the user to feel the effects of/from vibrations. These vibrations can lead to white finger (Raynaud's phenomenon) or carpal tunnel syndrome. This condition reduces the ability of the hand to feel and regulate temperature, causing numbness and heat sensations and may cause nerve damage and circulatory tissue death.
 - 1.5.2. Not all factors that lead to white finger disease are known, but cold weather, smoking and other diseases that affect blood vessels and blood circulation as well as large and long-lasting impact of shocks are considered factors called in

the formation of white finger. Note the following to reduce the risk the white finger and carpal tunnel syndrome:

- 1.5.2.1. Wear gloves and keep your hands warm
- 1.5.2.2. Take regular breaks
- 1.5.3. All of the above precautions may help reduce the risk of white finger disease but not rule out carpal tunnel syndrome. Long-term and regular users are therefore recommended to observe the condition of your hands and fingers. Seek medical attention immediately if any of the above symptoms should occur.
- 1.6. Noise.
 - 1.6.1. The operating noise of the machine can damage your hearing. Wear hearing protection such as earplugs or ear defenders to protect your hearing. Long-term and regular users are advised to have hearing checked regularly. Be especially vigilant and cautious when wearing hearing protection because your ability to hear alarm warnings will be reduced.
 - 1.6.2. Noise emissions for this equipment is unavoidable. Carry out noisy work at approved times and for certain periods. Limit the working time to a minimum. For your personal protection and protection of people working nearby it is also advisable for them to wear hearing protection.
 - 1.6.3. See CERTIFICATE of CONFORMITY section for Outdoor Noise declaration of conformity.



2. MACHINE SPECIFIC SAFETY

- 2.1. Before using the machine.
 - 2.1.1. Read this owner's manual carefully to understand how to operate this unit properly.
 - 2.1.2. Precautions.
 - 2.1.2.1. You should NEVER use the product when;
 - 2.1.2.1.1. Wearing loose clothing such as loose cuffs, when wearing sandals, or when barefoot.
 - 2.1.2.1.2. Under the influence of alcohol.
 - 2.1.2.1.3. Suffering from exhaustion or lack of sleep.
 - 2.1.2.1.4. Suffering from drowsiness as a result of having taken a medicine for cold or flu, or at any other time when a possibility exists that your judgment might be impaired or that you might not be able to operate the machine properly and in a safe manner.
 - 2.1.2.2. NEVER run the engine indoors. The exhaust gases contain harmful carbon monoxide.
 - 2.1.2.3. NEVER use the product under circumstances like those listed below;
 - 2.1.2.3.1. When the ground is slippery or when other conditions exist which might make it not possible to maintain a steady posture.
 - 2.1.2.3.2. At night, at times of heavy fog, or at any other times when your field

of vision might be limited and it would be difficult to gain a clear view of the area.

- 2.1.2.3.3. During rain storms, lightning storms, at times of strong or gale-force winds, or at any other times when weather conditions might make it unsafe to use this product.
- 2.1.2.4. When using this product for the first time, and before beginning actual work, you **MUST** learn how to handle the machine from an experienced or skilled person.
- 2.1.2.5. Lack of sleep, tiredness, or physical exhaustion results in lower attention spans, and this in turn leads to accidents and injury.
- 2.1.2.6. Limit the amount of time of using the machine continuously to somewhere around 10 minutes per session, and take 10 to 20 minutes of rest between work sessions. Also try to keep the total amount of work performed in a single day under 2 hours or less.
- 2.1.2.7. Make sure that you keep this manual handy so that you may refer to it later whenever any questions arise.
- 2.1.2.8. Always be sure to include this manual when selling, lending, or otherwise transferring the ownership of the product.
- 2.1.2.9. NEVER allow children or anyone unable to fully understand the directions given in this manual to use this product.
- 2.2. Personal protective equipment.
 - 2.2.1. When using the product, you should wear proper protective clothing and equipment as follows;
 - 2.2.1.1. Helmet.
 - 2.2.1.2. Protection goggles or a face protector.
 - 2.2.1.3. Thick work gloves.
 - 2.2.1.4. Non-slip soled work boots
 - 2.2.1.5. Ear protectors
 - 2.2.1.6. You should also carry with you.
 - 2.2.1.6.1. Attached tools and files.
 - 2.2.1.6.2. Reserve fuel and chain oil.
 - 2.2.1.6.3. Things to notify your working area such as rope to cordon of area and warning signs.
 - 2.2.1.6.4. Whistle to get assistance in an emergency.
 - 2.2.1.6.5. Hatchet or saw for removal of obstacles.

3. SYMBOLS & PARTS LOCATIONS

- 3.1. Symbols on the machine.
 - 3.1.1. For safe operation and maintenance, the following symbols are on the machine.
 - 3.1.1.1. Fueling point "MIX PETROL", *located on fuel tank cap*.



3.1.1.2. Chain oil filling point the "CHAIN OIL", *located on oil cap*.



3.1.1.3. Engine switch operation. Move the engine switch to the "O" (STOP) direction, the engine stops, *located rear-left of the unit*.



3.1.1.4. Choke lever operation. Pulling out the choke knob will close the choke, *located rear-right of the unit.*

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PULL

3.1.1.5. Chain oil adjuster nut. "MIN" direction-the oil flow decreases, "MAX" direction-the oil flow increases, *located bottom of the clutch side*. CHAIN OIL



3.1.1.6. Idle adjusting screws - the position of H-needle and L-needles, *located* rear-left of the unit.



- 3.2. Warning labels on machine.
 - 3.2.1. Read owner's manual.



3.2.2. Wear head, eye and ear protection.



3.2.3. Use the chainsaw with both hands.



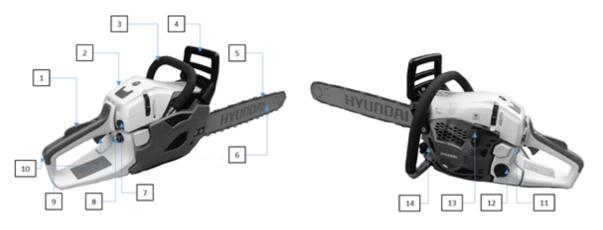
3.2.4. WARNING – Kickback danger.



3.2.5. WARNING – Attention.



3.3. Part locations.



1 – Throttle lock

10 – Rear handle

4 – Chain brake lever

13 – Recoil starter handle

7 – Choke

- 5 Chain saw
- 8 Primer bulb
 - 11 Engine switch

2 – Air filter cover

- 14 Chain oil filler cap
- 3 Front handle
- 6 Guide bar
- 9 Throttle
- 12 Fuel filler cap

4. SPECIFICATIONS

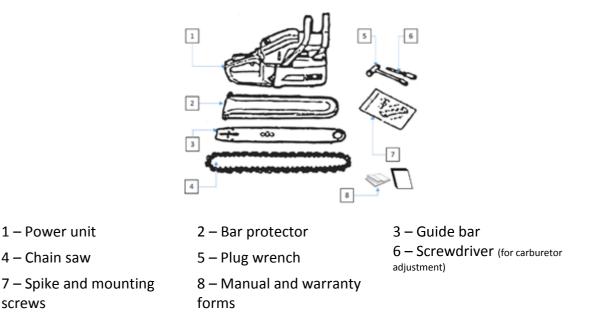
Chain saw Model	HYC6222
Engine displacement - cc	61.5
Fuel/oil ratio	40:1
Fuel type	Unleaded petrol/Semi synthetic 2 stroke oil
Fuel tank capacity - ml	550
Chain oil type	Chainsaw oil
Oil tank capacity - ml	260
Maximum engine power @7500 rpm - kw	2.3
Maximum engine speed with cutting attachment - rpm	11000
Maximum engine speed at idling - rpm	3000 ±300
Sprocket - T/inch	7/ ³ / ₈
Saw chain pitch - inch	3/8
Saw chain gauge - inch	0.063
Guide bar type	Sprocket nose
Guide bar size - inch	22
Oil feeding system	Automatic pump with adjuster
Net weight (without guide bar and chain) - kg	5.4
Machine dimensions (without guide bar and chain) - mm	410 × 235 x 265
Net weight - kg (complete with guide bar and chain)	7
Machine dimensions (complete with guide bar and chain) - mm	950 x 260 x 280
Box size - mm	570 x 260 x 300
Box gross weight - kg	9
Noise level – dB (A)	118
Hand arm vibration value - Front handle	8.0 m/s², K1.5
Hand arm vibration value - Rear handle	9.0 m/s², K1.5

5. ASSEMBLY

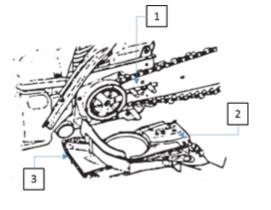


The saw chain has very sharp edges you MUST wear thick protective gloves for safety.

- 5.1. Installing the guide bar and saw chain.
- 5.1.1. The machine is supplied with the following parts.



- 5.2. Open the box and check that all parts are present and as above list. Install the guide bar and the saw chain on the power unit as follows:
 - 5.2.1. Pull the guard towards the front handle to check that the chain brake is not on.
 - 5.2.2. Loosen the nuts and remove the chain cover.
 - 5.2.3. Install the attached spike to the power unit.
 - 5.2.4. Engage the gear of the chain to the sprocket and, while fitting the saw chain around the guide bar, mount the guide bar to the power unit. Adjust the position of chain tensioner nut (2) on the chain cover to the lower hole of guide bar.





2 – Tensioner nut

3 – Chain cover

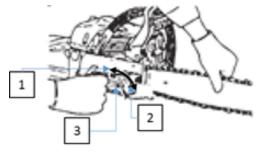


Pay attention to the correct direction of the saw chain

5.3. Arrow shows the correct direction of movement.



- 5.4. Fit the chain cover to the power unit and fasten the nuts to finger tightness.
- 5.5. While holding up the tip of the bar, adjust the chain tension by turning the tensioner screw until the tie straps just touch the bottom side of the bar rail.
- 5.6. Tighten the nuts securely with the bar tip held up (12~15N.m). Then check the chain for smooth rotation and proper tension while moving it by hand. If necessary, readjust with the chain cover loose.
- 5.7. Tighten the tensioner screw.



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1 – Loosen
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2 – Tighten

3 – Tensioner screw



A new chain will stretch in length when first used. Check and readjust the tension frequently as a loose chain can easily derail or cause rapid wear of itself and the guide bar.

5.8. Fuel/oil mixture.



Keep open flames away from the area where fuel is handled or stored. Mix and store fuel only in an approved petrol container.



Most engine troubles are caused, directly or indirectly, by the fuel used on the machine. Take special care not to mix a motor oil for 4 cycle engines. 5.8.1. Mix fresh unleaded petrol with a two stroke engine oil.



5.9. Chain oil.

- 5.9.1. Use motor oil SAE10W30 for all year round use.
- 5.10. Fuel and oil filling points.
- 5.10.1. Fuel cap (12), Oil cap (14).



6. STARTING & STOPPING THE MACHINE

6.1. Before starting the engine.

- 6.1.1. Check the working area, object/s to be cut and proposed cutting direction. You MUST remove any obstacles before staring work.
- 6.1.2. NEVER start cutting until you have a clear work area, secure footing and a planned retreat path from any falling pieces of cut wood.
- 6.1.3. ALWAYS use extreme caution and keep bystanders and animals out of the working area which must include the area where cut branches and tree/s will fall.
- 6.1.4. Inspect the machine for worn, loose, or damaged parts. NEVER operate a machine that is damaged, improperly adjusted, or is not complete and securely assembled. You MUST make sure that the saw chain stops moving when the throttle control trigger is released, if the chain does not come to a stop you must adjust the idle speed of the engine.
- 6.2. When starting the engine.
 - 6.2.1. ALWAYS hold the machine firmly with both hands when the engine is running. Use a firm grip with thumb and fingers encircling the handles.
 - 6.2.2. Keep all parts of your body away from the machine when the engine running.
 - 6.2.3. Before starting the engine, make sure the saw chain is not in contact with anything.

- 6.3. Starting the engine.
 - 6.3.1. Fill the fuel tank (12) with the correct fuel/oil mix (40:1) and fill the chain oil tank (14), and tighten the caps securely.



6.3.2. Put the engine switch (11) to "I" on position.



6.3.3. Operate the chain brake (4) by pushing it forward.



6.3.4. Pull out the choke knob (7) to the closed position.



6.3.5. Press primer bulb (8) at least three times or until fuel fills the bowl.



When restarting the machine immediately after stopping leave the choke knob at the open position. This includes restarting a warm engine.

6.3.6. Hold the front handle (3) to secure unit firmly on the ground, pull the starter handle (13) firmly and vigorously. DO NOT let go of the handle instead release the handle gently allowing the cord to retract into the housing.



- 6.3.7. When the engine has started, push the choke knob in and pull the starter again to restart the engine.
- 6.3.8. Allow the engine to warm up with the throttle lever in a midway position.

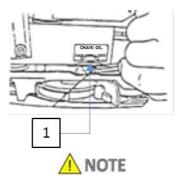


Keep clear of the saw chain as it will start to rotate when engine first starts.

- 6.4. Checking the chain oil supply.
 - 6.4.1. After starting the engine, run the chain at medium speed and see if chain oil(1) is scattered off as shown below.

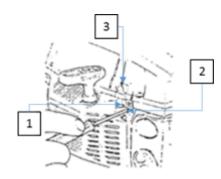


6.4.2. The chain oil flow can be altered by inserting a screwdriver in the hole (1) on bottom of the clutch side. Adjust the oil flow according to your work conditions.



The chain oil tank should be nearly empty by the time the fuel is used up. Make sure that you refill (or top up) the chain oil tank every time the unit is fueled.

- 6.5. Carburetor adjustment.
 - 6.5.1. The carburetor on your unit has been factory adjusted, but may require fine tuning due to changes in operating conditions. Before adjusting the carburetor, make sure that the air/fuel filters are clean and free of any debris, properly mixed fuel. When adjusting, take the following steps;



- 6.5.1.1. Stop engine and allow it to cool then screw in both **H** (2) and **L** (1) needles until they stop, DO NOT apply excess pressure when doing this.
- 6.5.1.2. Then set them back the initial number of turns as shown below.
 - 6.5.1.2.1. **H** (2) needle 1 ³/₈
- 6.5.1.2.2. **L** (1) needle 1 ¹/₄
- 6.5.1.3. Start the engine and allow it to warm up at half throttle.
- 6.5.1.4. Turn the **L** (1) needle slowly in a clockwise direction to find a position where idling speed is maximum, then set the needle back a quarter (¼) turn the screw counter clockwise.
- 6.5.1.5. Turn the idle adjusting screw **T** (3) counter clockwise so that the saw chain does not turn. If idling speed is too slow, turn the screw clockwise.
- 6.5.1.6. Make a test cut and adjust the **H** (2) needle for best cutting power, not for maximum speed.

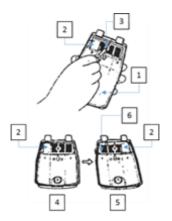
- 6.6. Carburetor anti-freeze mechanism.
 - 6.6.1. Operating the chain saw in temperatures of 0-5°C at times of high humidity may result in ice forming within the carburetor, and this in turn may cause the output power of the engine to be reduced or for the engine to fail to operate smoothly.
 - 6.6.2. This product has been designed with a ventilation hatch the back of the air cleaner cover to allow warm air to be supplied to the engine and to there by prevent icing from occurring.
 - 6.6.3. Under normal circumstances the product should be used in normal operating mode, i.e. in the mode to which it is set at the time of shipment.
 - 6.6.4. However when the possibility exists that icing may occur, the unit should be set to operate in anti-freeze mode before use.
 - 6.6.5. How to switch between operating modes.



Continuing to use the product in anti- freeze mode even when temperatures have risen and returned to normal may result in the engine failing to start properly or the engine failing to operate at its normal speed. For this reason you should make sure that you return the unit to its normal operating mode if there is no danger of icing occurring.

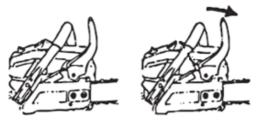
When using the saw with in the anti-freeze mode, you must frequently check the screen to make sure it is kept clean of saw dust.

- 6.6.5.1. Move the engine switch to the 'O' off position to turn the engine off.
- 6.6.5.2. Remove the air cleaner cover from the cylinder cover.
- 6.6.5.3. Loosen the screw (3) and remove the screen (6) on the back of the air cleaner cover (1).
- 6.6.5.4. Re-attach the screen right side left so as to the anti-icing plate (2) is now on the right. Reinstall the cover.
- 6.6.5.5. Normal mode (4), Anti-freeze mode (5).



- 6.7. Chain brake.
- 6.7.1. This machine is equipped with an automatic brake to stop saw chain rotation in the event of kickback whilst the chainsaw is in operation. The brake is automatically operated by inertial force which acts on the weight fitted inside the front guard. This brake can also be operated manually with the front guard

turned down to the guide bar.

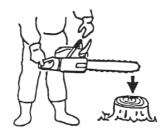


6.7.2. To release brake, pull up the front guard toward the front handle until a 'click' sound is heard.



Make sure that you confirm the operation of the brake when carrying out the pre-use inspection.

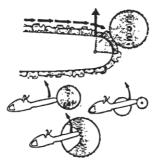
- 6.8. How to confirm that the brake is operating correctly.
 - 6.8.1. Turn off the engine.
 - 6.8.2. Holding the chain saw horizontally, release your hand from the front handle, hit the tip of the guide bar to a stump or a piece of wood, and confirm brake operation. Operating level varies by bar size.



- 6.8.3. If the brake is not effective, ask your dealer to inspect and repair.
- 6.8.4. If the engine is still rotating with the brake engaged, it will overheat the clutch. When the brake is operated while in operation, you MUST immediately release your fingers from the throttle lever and allow the engine to run at idle.
- 6.9. Stopping the engine.
 - 6.9.1. Release the throttle lever to allow the engine to idle at low speed for a few minutes.
 - 6.9.2. Move the engine switch (11) to the 'O' stop position.



- 6.10. Sawing.
 - 6.10.1. Before proceeding to your job, read section 2.
 - 6.10.2. It is recommended that you first practice sawing easy logs. This will also help you get accustomed to your unit.
 - 6.10.3. Always follow the safety regulations. The chain saw must only be used for cutting wood.
 - 6.10.4. It is forbidden to out other types of material.
 - 6.10.5. Vibrations and kickback will vary with different wood densities. DO NOT use the chain saw as a lever for lifting, moving or splitting objects.
 - 6.10.6. DO NOT lock the machine to fixed stands. It is forbidden to hitch tools or applications to the P.T.O. that are not specified by the manufacturer.
 - 6.10.7. It is not necessary to force the saw into the cut.
 - 6.10.8. Apply only light pressure while running the engine at full throttle.
 - 6.10.9. When the saw chain is caught in the cut, do not attempt to pull it out by force, but instead use a wedge or a lever to open up the cut to aid the release of the saw.
- 6.11. Guarding against kickback.
- 6.11.1. This saw is equipped with a chain brake that will stop the chain in the event of kickback if operating properly. You MUST check the chain brake operation before each use by running the saw at full the throttle for 1-2 seconds and pushing the front hand guard forward. The chain should stop immediately with the engine at full speed. If the chain is slow to stop or does not stop, get your dealer to check and repair brake.
- 6.11.2. It is extremely important that the chain brake be checked for proper operation before each use and that the chain is kept sharp in order to maintain the kickback safety level of this saw. Removal of any of the safety devices, inadequate maintenance, or incorrect replacement of the bar or chain may increase the risk or serious personal injury due to kickback.



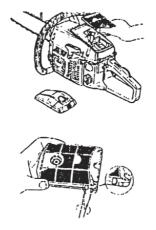
7. MAINTENANCE

A WARNING

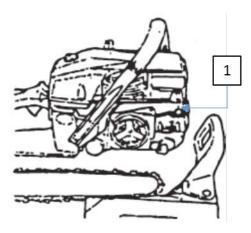
Before cleaning, inspecting, or repairing your unit, you MUST make sure that engine has stopped and allowed to cool down.

You MUST disconnect the spark plug to prevent any accidental starting.

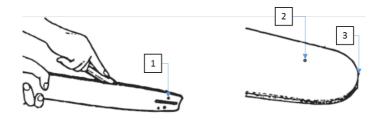
- 7.1. Maintenance after each use.
 - 7.1.1. Air filter.
 - 7.1.1.1. Dust on the air filter surface must be removed and can be done by gently tapping a corner of the filter against a hard surface.
 - 7.1.1.2. To clean dirt in the mesh, split the cleaner into 2 halves and rinse in fresh petrol.
 - 7.1.1.3. When using compressed air, blow from the inside.



- 7.1.2. Chain oiling port.
 - 7.1.2.1. Dismount the guide bar and check the oiling pot for clogging.



- 7.1.3. Guide bar.
- 7.1.3.1. When the guide bar is dismounted, remove any saw dust in the bar groove and the oiling port (1). Grease the nose (2) sprocket (3) from the feeding port on the tip of the bar.



- 7.1.4. Other checks.
 - 7.1.4.1. Check for fuel leaks repair as required.
 - 7.1.4.2. Check for any loose fastenings, tighten as required.
 - 7.1.4.3. Check for any damage to major parts especially handle joints and guide bar mounting.
 - 7.1.4.4. If any defects are found, you MUST make sure they are repaired before operating the machine again.
- 7.2. Periodical service points.
 - 7.2.1. Engine cylinder fins.



Before cleaning make sure that you block the air intake hole. Remember to unblock air intake hole after cleaning.

- 7.2.1.1. Any dust clogging between the cylinder fins will cause overheating of the engine. You MUST periodically check and clean the cylinder fins after removing the air cleaner and the cylinder cover.
- 7.2.1.2. When refitting the cylinder cover, make sure that all switch wires and grommets are not trapped and positioned correctly in place.



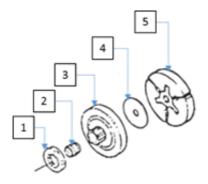
- 7.2.2. Spark plug.
- 7.2.2.1. Clean the electrodes with a wire brush and reset the gap to 0.65 mm as required.



7.2.3. Sprocket.

7.2.3.1. Check for cracks and for excessive wear interfering with the chain drive. If

wear is obvious, replace it with new one. Never fit a new chain on a worn sprocket, or a worn chain on a new sprocket.



1 – Sprocket

4 – Spacer

2 – Needle bearing 5 – Clutch shoe 3 – Clutch drum

- 7.2.4. Fuel filter.
 - 7.2.4.1. Disassemble the filter and wash with petrol, or replace with new one as required.
- 7.2.5. Oil filter.
- 7.2.5.1. Disassemble the filter and wash with petrol, or replace with new one as required.
- 7.2.6. Front and rear dampers.
 - 7.2.6.1. Replace if there are obvious cracks on the rubber part.
- 7.3. Maintenance of saw chain and guide bar.
 - 7.3.1. Saw chain.



It is very important to make sure that the saw chain cutters are kept sharp for safe and smooth operation.

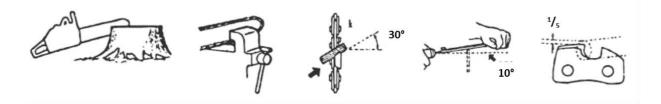
- 7.3.1.1. Your cutters need to be sharpened when;
- 7.3.1.1.1. Sawdust becomes powder-like.
- 7.3.1.1.2. You need to apply extra force to saw into wood.
- 7.3.1.1.3. The cut way does not go straight.
- 7.3.1.1.4. Vibration increases.
- 7.3.1.1.5. Fuel consumption increases.
- 7.3.1.2. Cutter setting standards.



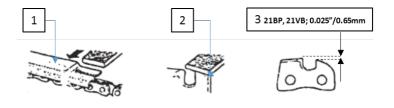
Be sure wear safety gloves.

- 7.3.1.2.1. Before filing;
- 7.3.1.2.2. Make sure the saw chain in held securely

- 7.3.1.2.3. Make sure the engine is stopped and allowed to cool down.
- 7.3.1.2.4. Use a round file of proper size (File size: 3/16 in/4.76 mm) for your chain, chain type: 21VB.
- 7.3.2. Place your file on the cutter and push straight forward. Keep the file position as illustrated.



7.3.3. After every cutter has been set, check the depth gauge and file it to the proper level as illustrated.

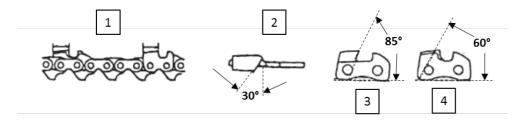


1 – Appropriate gauge checker

3 – Depth gauge standard

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

2 – Round the shoulder



1 – Cutter length

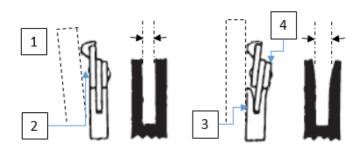
2 – Filling angle

3 – Side plate angle

4 – Top plate cutting angle

7.4. Guide bar.

- 7.4.1. Reverse the bar occasionally to prevent partial wear.
- 7.4.2. The bar rail should always be a square. Check for wear of the bar rail. Apply a ruler to the bar and the outside of a cutter. If a gap is observed between them the rail is normal. If the rail is worn then the bar will need to be corrected or replaced.



1 – Ruler

2 – Gap

3 – No gap

4 – Chain tilts

8. TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE/S	CORRECTIVE ACTION/S
Engine does not start.	Water in fuel or sub-standard mixture.	Replace fuel.
	Engine flooding.	Remove and dry the spark plug. Start engine without choke.
	No or bad spark ignition.	Replace plug.
Lack of power. Poor acceleration or rough Idling.	Water in fuel or sub-standard mixture.	Replace fuel.
	Clogged air filter.	Clean and/or replace.
	Clogged fuel filter.	Clean and/or replace.
	Badly adjusted carburetor.	Adjust speed needles.
Chain oil does not come out when running.	Poor quality oil.	Replace.
	Clogged oil passage.	Clear blockage.

9. STORAGE & TRANSPORTATION

- 9.1. Storage.
 - 9.1.1. Empty the fuel tank and run the engine until it runs out of fuel.
 - 9.1.2. Empty the chain oil tank.
 - 9.1.3. Clean the entire unit.
 - 9.1.4. Store the unit in a dry place out of the reach of children.
- 9.2. Transportation.
 - 9.2.1. When moving the chainsaw from one location to another you MUST turn off the engine and cover the blade with its cover.
 - 9.2.2. When transporting machine in a vehicle you MUST make sure;
 - 9.2.2.1. That the fuel and oil will not leak from machine.
 - 9.2.2.2. The machine is safely secured to prevent damage whilst in transit.

10. RECYCLING & PRODUCT DISPOSAL

- 10.1. We do not offer a takeback scheme for the recovery of Waste Electrical Electronic Equipment (WEEE) & Batteries instead the responsibility to dispose of WEEE and or Batteries is passed onto you by us. So when it becomes necessary to dispose of your machine you must take it to your local Civic Amenity Site. For further information please contact your Local Authority for disposal advice.
- 10.2. You MUST make sure that all unused oil and fuel is disposed of correctly either beforehand or at your local Civic Amenity Site. Under NO circumstance must any oil and fuel be put down any drains.
- 10.3. Waste Electrical Electronic Equipment (WEEE) recycling.
- 10.3.1. Certain products contain WEEE waste which should not be disposed of in your domestic waste.
- 10.3.2. You MUST recycle WEEE in accordance with your local authority or recycling centre.
- 10.4. Battery recycling, certain products contain batteries which should not be disposed of in your domestic waste.
 - 10.4.1. You MUST recycle batteries in accordance with your local authority or recycling centre.
- 10.5. Unwanted packaging materials should be sorted and taken to a recycling centre so it can be disposed of in a manner which is compatible with the environment.
- 10.6. The following symbol means that you should 'Reduce Reuse Recycle'.
- 10.7. We are a Member of the VALPAK National Compliance scheme and our registration number is **RM08660**
- 10.8. For further information about disposal please contact your Local Authority.
- 10.9. You can also get more advice and guidance about recycling at the following website <u>http://www.recycle-more.co.uk</u>
- 10.10. Should you pass this product onto another user either sold or loaned you MUST pass on this user manual. This will make sure that all other users can use and maintain the machine safely.







11. DECLARATIONS of CONFORMITY

97/68/ECNon Road Mobile Machinery Directive2000/14/ECOutdoor Noise Directive2004/108/ECElectro Magnetic Compatibility Directive2006/42/ECMachinery Directive

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 (as amended)

of the European Parliament and of the council on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.

Equipment Category:	Garden Machinery
Product Name/Model:	HYC6222
Type/Serial No:	Chainsaw
Net installed power:	2.3 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 Testing Services Shanghai, Building № 86, 1198 Qinzhou Road (North), Shanghai 200233, China.
Certification n ^{e/} Report nº	131101636SHA-001
Measured Sound Power Level:	114 dB (A)
Guaranteed Sound Power Level:	118 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:	4 th April 2016
Signed by:	Kevin Stanley
Position in Company:	Product Manager
Name and address of manufacturer or Aut	horised representative:

Knostin Cy.

Genpower Ltd, Isaac Way, Pembroke Dock, Pembrokeshire, SA72 4RW.

12. CONTACT DETAILS

12.1.	POSTAL ADDRESS	Genpower Ltd, Isaac Way, London Road, Pembroke Dock, Pembrokeshire, SA72 4RW. UK.
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13.3.	FAX	+44 (0) 1646 686198
13.4.	TECHNICAL E-MAIL	service@genpower.co.uk
13.5.	WEBSITE	www.hyundaipowerequipment.co.uk

13. MANUAL UPDATES

- 13.1. Our manuals are constantly being reviewed and updated. However if should you find an error, omission or something you find unclear please contact your dealer for assistance.
- 13.2. Our latest manuals are also placed online.
- 13.3. We reserve the right to make any modifications without prior notice whenever necessary.



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