

HYUNDAI

BRUSHCUTTER

Model HYBCF31



User Manual

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CONTENTS

1.	SAFETY	4 - 7
2.	QUICK START	8 - 19
3.	STARTING PROCEDURE	20 - 22
4.	STOPPING PROCEDURE	22
5.	USING THE MACHINE	23 - 25
6.	MAINTENANCE	26 - 31
7.	TROUBLESHOOTING	32
8.	SPECIFICATION	33
9.	PART LOCATIONS	34
10.	DECLARATIONS OF CONFORMITY	35
11.	RECYCLING & PRODUCT DISPOSAL	36
12.	CONTACT DETAILS	36
13.	MANUAL UPDATES	36
14.	WARRANTY	37

1. SAFETY

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 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.

DANGER

Indicates a hazard, which, if not avoided, could result in serious injury or death.

WARNING

Indicates a hazard, which, if not avoided, could result in serious injury.

CAUTION

Indicates a hazard which, if not avoided, might result in minor or moderate injury.

NOTE

Indicates a situation that could easily result in equipment damage.



READ and keep the manual safe and pass it on if the machine is loaned or sold to another user. You MUST fully read instructions to make sure you use and operate machine safely.

Appropriate Personal Protective Equipment (PPE), MUST be worn at all times when Machine is in use or being repaired.



⚠ DANGER!

BREATHING IN CARBON MONOXIDE FUMES CAN KILL YOU!
To help protect against CO poisoning install a Carbon Monoxide detector.

NEVER use Petrol/Diesel powered equipment inside, especially a home, garage, tent, camper-van, caravan, motorhome or boat.
EVEN if doors, windows, vents and hatches are open. Only use **OUTDOORS** and as far away from doors, windows, vents and open hatches as possible to prevent inhaling fumes.

READING MANUAL BEFORE USE WILL HELP AVOID OTHER MACHINE HAZARDS.

1.2. Carbon monoxide (where applicable).

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/Diesel- powered 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 (where applicable).



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.



Fire Hazard

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).



ALL FUELS ARE FLAMMABLE

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.



Fire Hazard

1.5. Electrical safety (where applicable).



Risk of electric shock

1.5.1. Electricity can kill - NEVER work on LIVE/ENERGISED equipment.

1.5.2. Prior to carrying out any maintenance work you MUST Identify electrical isolation methods and isolate all electrical supplies,

1.5.3. Prior to use and with all electrical supplies isolated You MUST check all electrical cables, plugs and connections for the following;

1.5.3.1. Are intact and have no signs of damage, to include but not limited to bare wires, chaffing, cuts and loose wiring.

1.5.3.2. If there are any signs of damage, the damaged item MUST be taken out of service until the damage has been repaired by an electrically competent person.

1.5.3.3. All trailing cables should be routed so as not to cause any kind of trip hazard.

1.5.3.4. NEVER work on or near electricity with wet hands, wet clothing, and wet gloves.

1.6. Batteries (where present).



Corrosive

1.6.1. Batteries present a risk if they become damaged by the possible leaking of electrolyte. This electrolyte is an acid and can cause serious burn injuries. Care should be taken when working on or near them. NOTE the electrolyte may be in liquid or gel form.

1.6.2. Should you come into contact with electrolyte you should;

1.6.2.1. Remove all clothing contaminated with electrolyte. If you cannot remove then saturate in water.

1.6.2.2. Get medical assistance as soon as possible. You must advise the medical staff of the type acid.

1.6.2.2.1. Lead/acid battery = dilute sulphuric acid

1.6.2.2.2. Nickel/cadmium = potassium hydroxide alkali electrolyte.

1.6.2.3. Use fresh running water to wash off excess electrolyte, continue this until medical assistance arrives. Make sure that you do not wash the electrolyte to another part of the face or body.

1.6.2.4. If electrolyte comes into contact with Eyes the electrolyte needs to be immediately washed away with large amounts of water. Make sure that you do not wash the electrolyte to another part of the face or body.

1.6.3. Gasses from charging batteries are highly flammable and great care should be taken to charge in well ventilated areas.

1.6.4. There is an explosion risk if the battery terminals are short circuited, when connecting/dis-connecting ALWAYS exercise great care so that the terminals or battery leads are NOT allowed to touch and cause a spark. ALWAYS use suitable insulated tools.



1.7. Vibrations (where applicable).

1.7.1. 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.

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

1.7.2.1. Wear gloves and keep your hands warm

1.7.2.2. Take regular breaks

1.7.3. 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.

1.8. Noise (where applicable).

1.8.1. 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.

1.8.2. 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.

1.8.3. See CERTIFICATE of CONFORMITY section for Outdoor Noise declaration of conformity.



1.9. Additional safety labels.

Keep all children, bystanders and helpers 15 meters from the machine.



Warning against flying objects wear helmet, goggles and ear protection.



Warning: Danger from hot components, especially exhaust - Keep clear of combustible materials.



1.10. Additional safety instructions.

1.10.1. This machine may only be used for trimming grass. NEVER use for other purposes, as this may result in serious injury! Safety instructions must be observed. DO NOT EXPOSE YOURSELF OR OTHERS TO THE RISKS. Follow these general instructions -

- ALWAYS wear safety goggles for eye protection.
- Long hair must be tied back.
- DO NOT wear loose clothing or jewelry that could get caught in moving parts of the machine. Safe, strong, non-slip safety shoes should be worn.
- It is recommended that the legs and feet are fully protected, to protect themselves during the operation against flying objects.

1.10.2. Check the entire machine for loose/missing parts (nuts, bolts, screws, etc.). Tighten/ replace before using the machine. DO NOT use accessories with this machine other than those recommended/supplied by the manufacturer. Otherwise serious injuries to the user or bystanders as well as damage to the machine will result.

 **DANGER** NEVER use the machine with a saw blade attachment it is STRICTLY FORBIDDEN.

- Keep the handles free of oil and fuel.
- ALWAYS use the correct interface handles and shoulder strap.
- DO NOT smoke when mixing fuel or when filling the tank.
- DO NOT mix fuel in an enclosed area or near open fires.
- Make sure there is sufficient ventilation.
- Mix and store the fuel mixture in a correctly marked container, which is allowed by local regulations.

1.10.3. During and after use the engine and exhaust will be very HOT you must keep all your all parts of your body and clothing including all combustible materials clear of the engine and exhaust.

1.10.4. DO NOT use the machine during or after rain, snow or sleet. The floor will become slippery. DO NOT use the machine on a slope or uneven ground or if there is the chance of slipping or losing the stability.

1.10.5. If you trip or fall whilst machine is in use you MUST immediately release the throttle, and turn off the ignition switch.

1.10.6. If you hit any obstacles you must stop the machine and remove the HT lead so that you can inspect the machine. IF the machine is damaged in any way you MUST get it repaired before restarting work.

1.10.7. DO NOT use a damaged machine or a machine with a blunt, cracked or damaged cutter blade or trimmer head.

1.10.8. If any trimmed materials get tangled in the nylon cord or cutting blade you MUST stop the machine and remove the HT lead. Only then can you clear any blockages.

1.10.9. DO NOT wear rings and jewelry or loose, dangling clothing that could get caught in the machine. DO NOT wear footwear with unprotected toes and DO NOT work barefoot or without leg protection. In certain situations, you have to wear head protection.

1.10.11. DO not use the brush cutter for trimming trees.

2. QUICK START

You can also check out our online video at www.youtube.com/hyundaipowerequip.co.uk

2.1. This guide is meant to serve as a quick reference for operating your Hyundai 4 Stroke grass trimmer & brushcutter it is for convenience and the user should read the safety section first.

FOR OUTDOOR USE ONLY.

This 4 Stroke grass trimmer & brushcutter produces carbon monoxide - a poisonous, colourless & odourless gas that can cause death or serious injury. Petrol is highly flammable, always handle with extreme care and in a well ventilated area.

Always remove HT lead from spark plug when checking machine or changing parts.

2.2. This product includes, Main unit, Operators handle, Trimmer head shaft, Bump trimmer head, 3 toothed - Brush cutter blade, 8 toothed - Brush cutter blade, Brush cutter blade guard, Spare 2.5 mm nylon cord, Full harness, Gloves, Face shield, Ear defenders, Tool kit, Spare spark plug, Fuel bottle, Oil filler cup, User manual, Warranty registration form, Customer notice (removal of circlip).

2.3. At this point, check that you have all of the included items listed above. If any are missing or damaged, call 01646 687 880 or email info@hyundaipowerequipment.co.uk.

2.4. Trigger and handlebar assembly.

2.4.1. Trigger assembly.

Undo the Screw from the trigger assembly and remove both the screw and retaining nut.

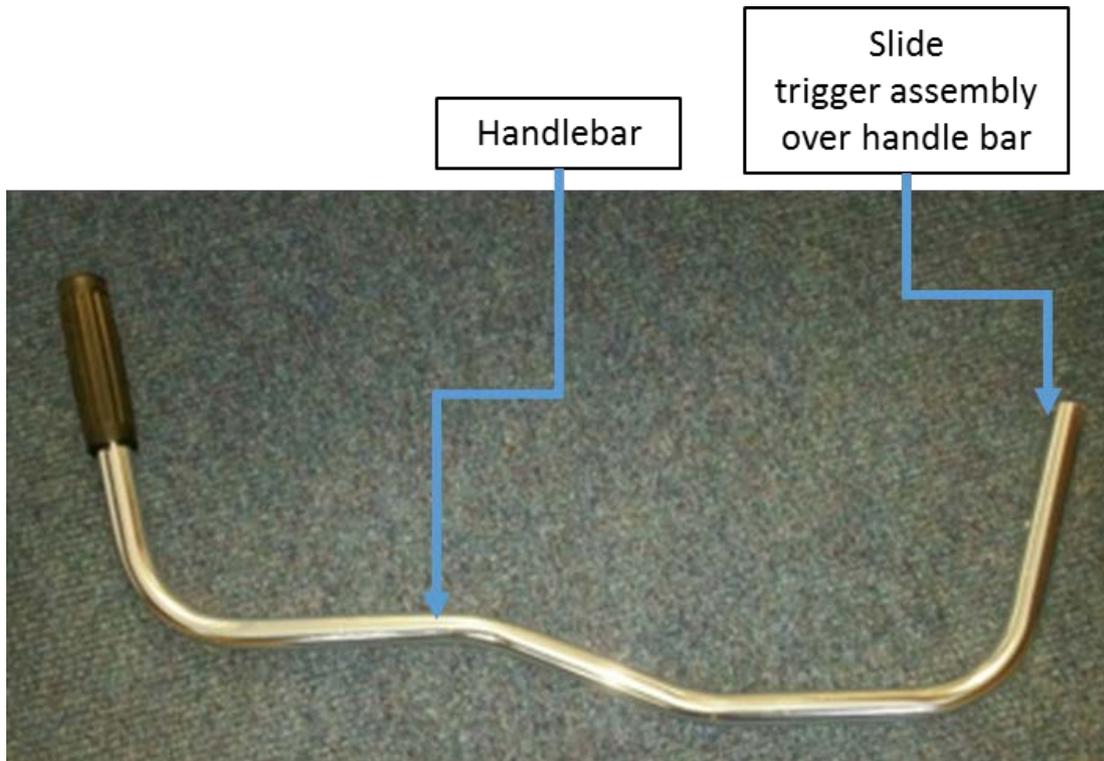
Trigger assembly



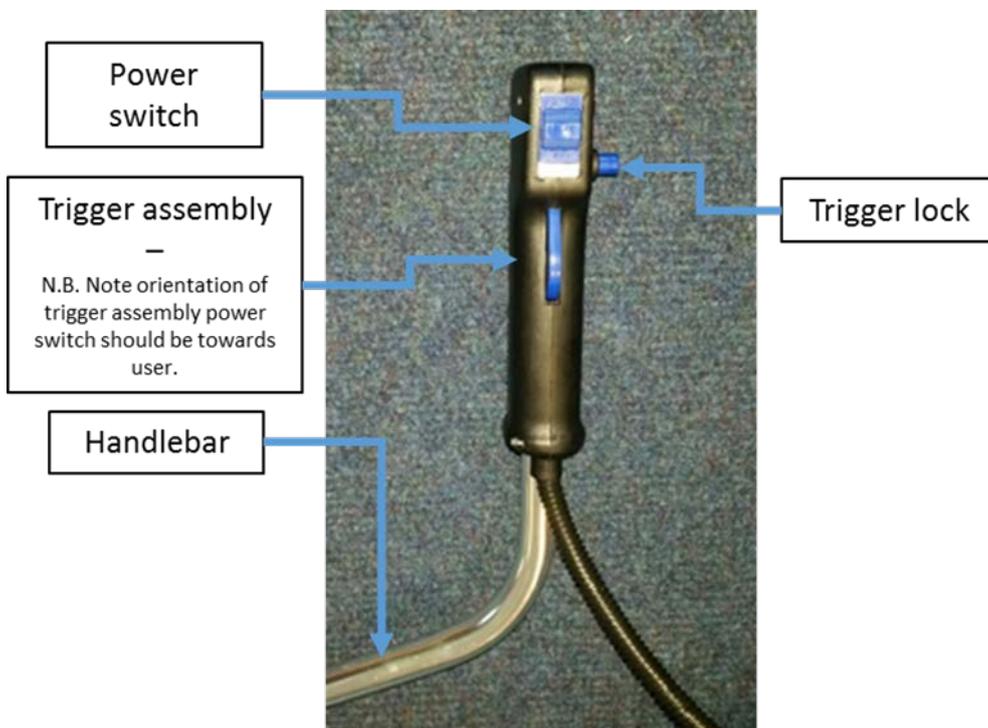
Retaining nut

Screw

Slide the trigger assembly over the handle bar, locate the hole and refit the screw and bolt through the trigger assembly.

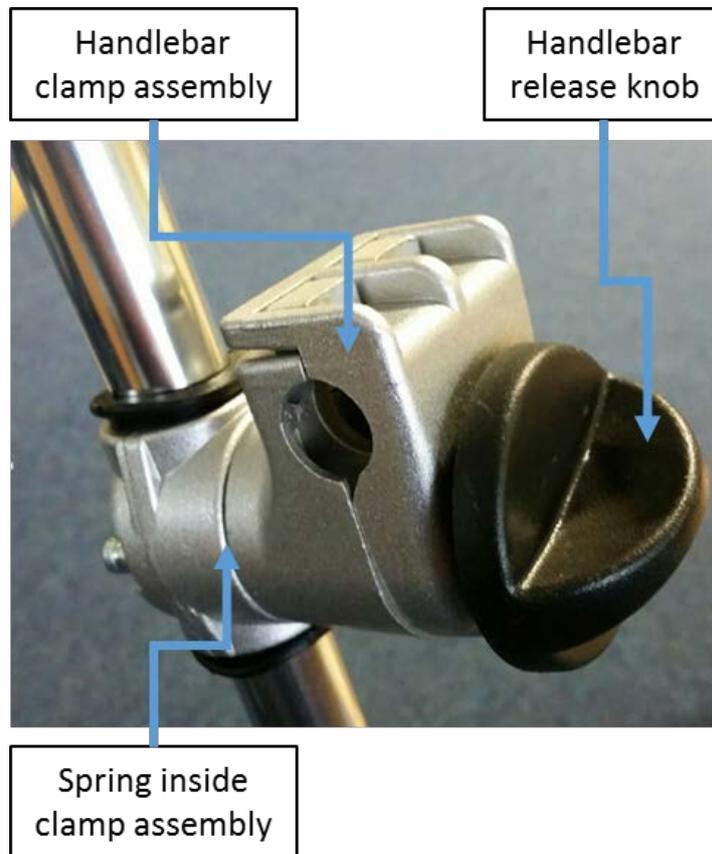


N.B. Note orientation of trigger assembly power switch should be towards user.

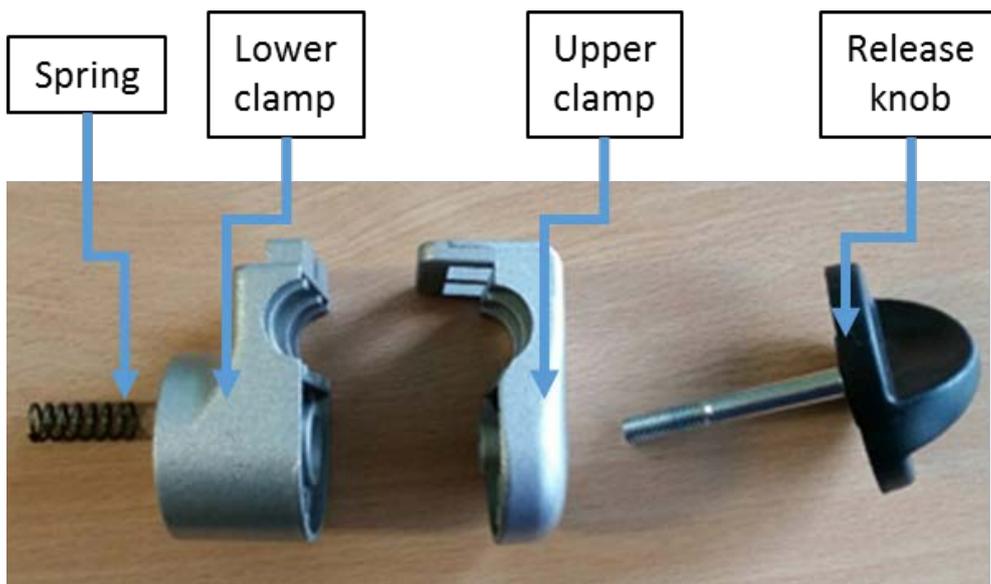


2.4.2. Handlebar assembly.

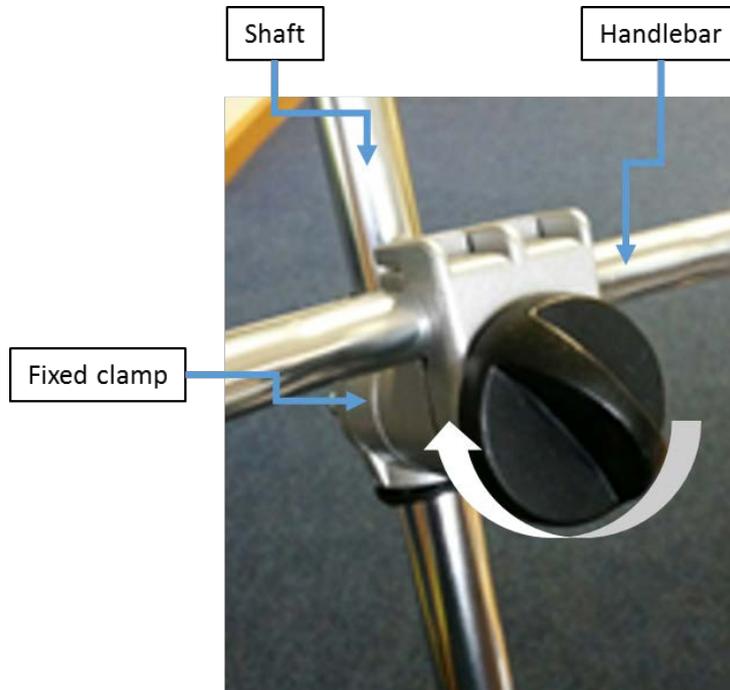
Undo the handlebar release knob.



Remove handlebar release knob and open clamp and remove clamp assembly from the handlebar. N.B. There is a spring inside make sure that you keep spring safe.

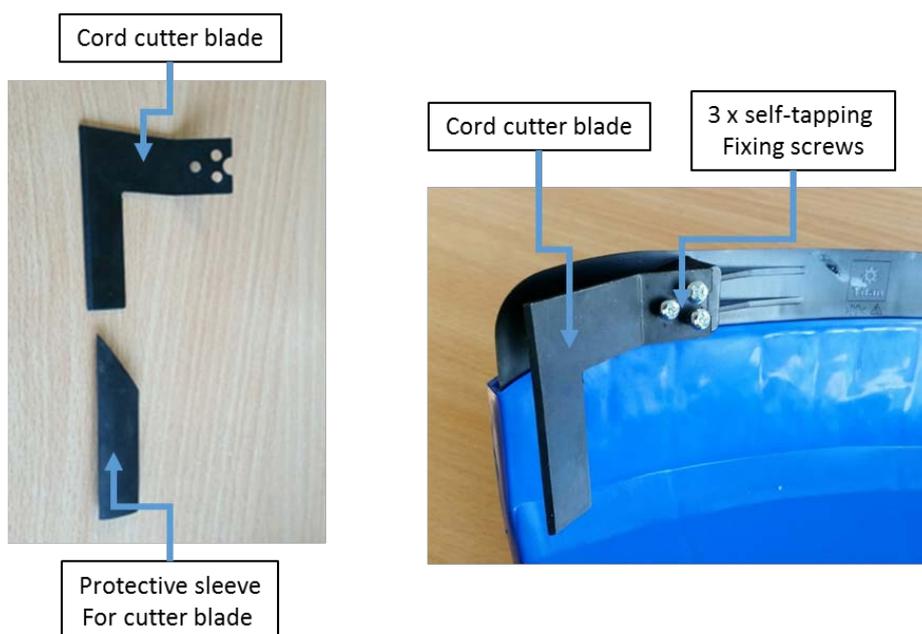


Place handlebar into lower half of clamp assembly and close the upper half over the top. Pass the release knob through both halves of the assembly then through the spring. Offer this to the fixed clamp on the handle bar. Apply pressure to squeeze the spring then turn the release knob in a clockwise direction and tighten fully.



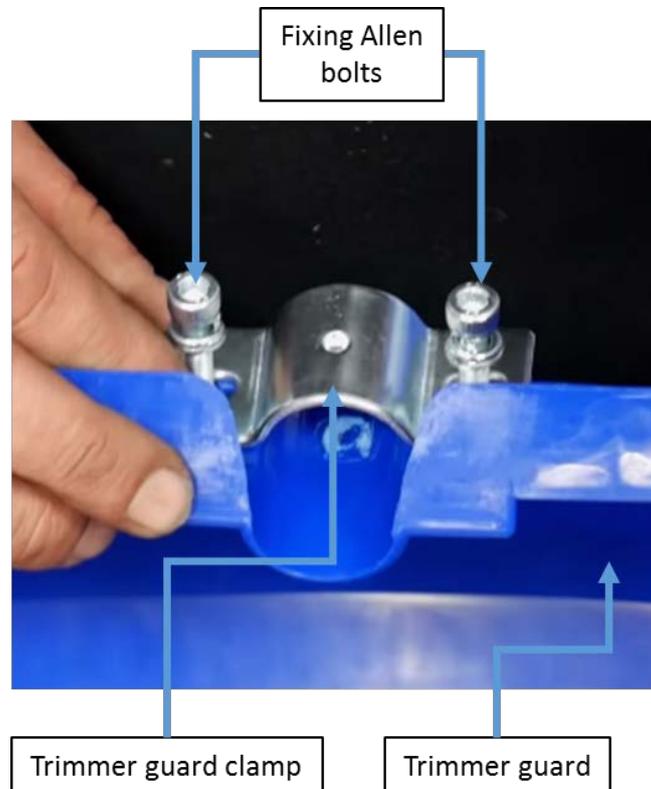
2.5. Trimmer blade assembly.

Before fitting the trimmer guard to the machine you must first fit the trimmer guard cord cutter. Take the cutter blade and 3 self-tapping screws from the Blue tool bag. Align the cutter blade as shown and fix into place. N.B. Keep the protective sleeve in place until blade is fully secured and ready for use.

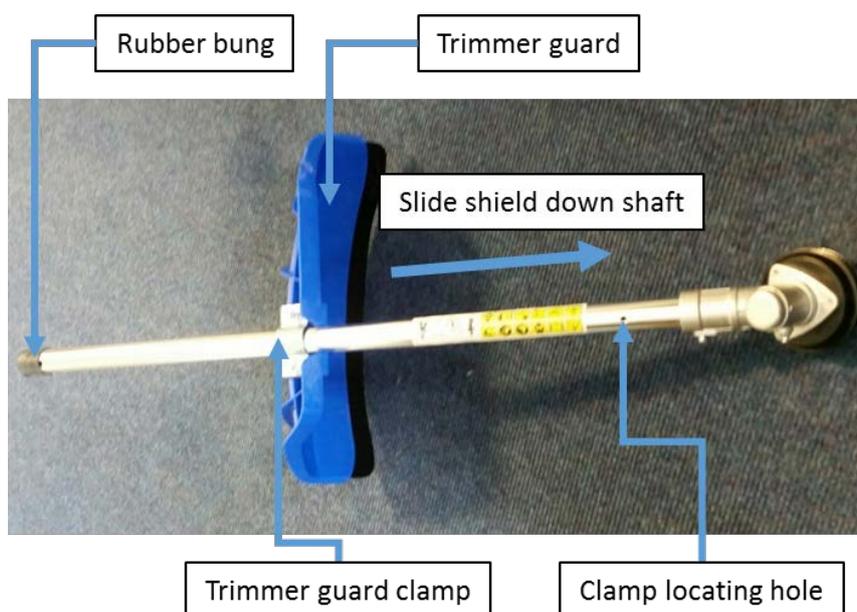


2.6. Trimmer guard assembly.

The trimmer guard needs to be fixed onto the lower shaft before it is mounted onto the machine. Take the trimmer guard clamp and 2 fixing Allen bolts from the tool bag then attach them to the trimmer guard. At this stage DO NOT overtighten the bolts.



Place the semi assembled trimmer guard and slide it over the shaft as shown below. You will need to rubber bung of the end of the lower shaft – retain the bung for future use as it helps to keep the drive shaft clear and free of debris. Once the guard clamp has been located into the hole of the shaft tighten the two fixing bolts.



Fully assembled guard



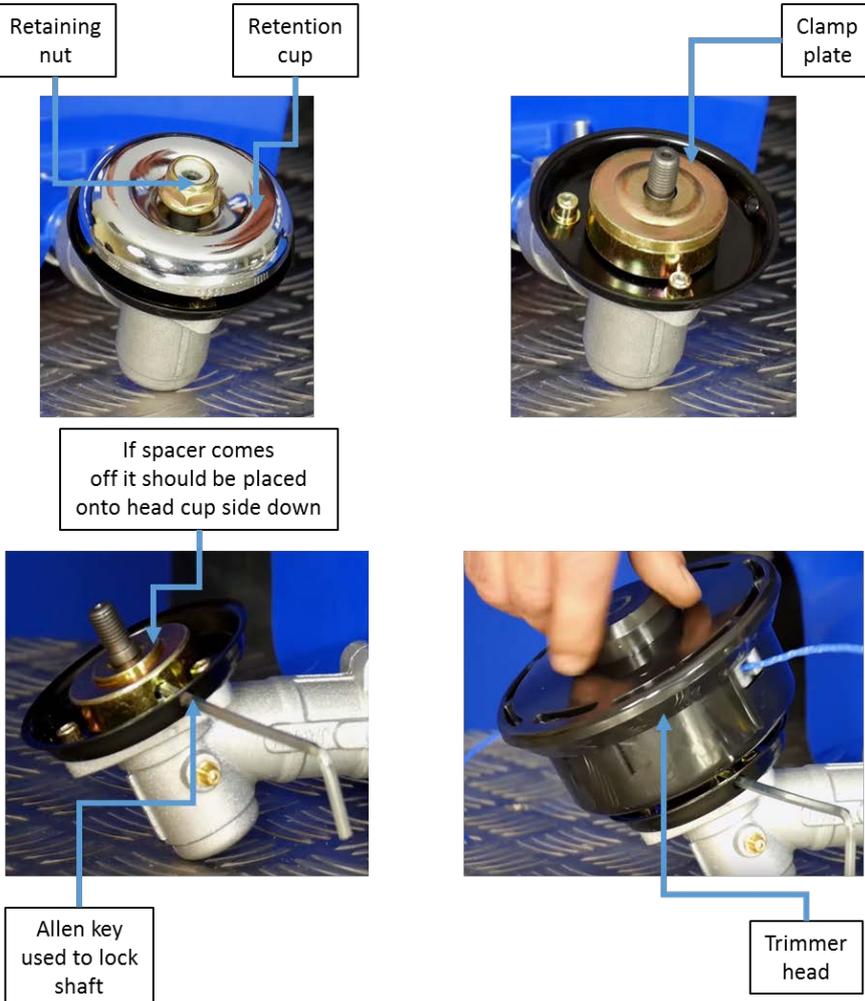
2.7. Grass trimmer assembly.

To fit the trimmer head you need to undo the retaining nut (clockwise direction), then remove the retention cup and the clamp plate (Keep these safe they are not used with the trimmer head).

Using one of the supplied 4mm Allen keys lock the shaft, then screw on the trimmer head in anti-clockwise direction make sure head is fully tightened.

Remove the Allen key before use.

To remove head reverse the process.



2.8. Cutter head assembly. (Machine is supplied with a 3 and 8 toothed blade).

2.8.1. You should wear safety gloves when handling the blades.

To fit the cutter blade you will need to remove the trimmer head.
Once the trimmer head is removed select either the 3 or 8 toothed blade.
Remove the plastic blade protective guard (retain for future use) and mount onto the shaft.
Fit drive spacer as below.

Correct

Incorrect



Drive spacer

Fit blade. Make sure blade is correctly slotted onto shaft.

Correct

Incorrect

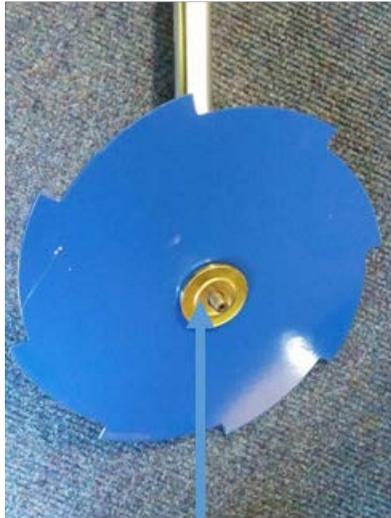


Blade

Fit clamp spacer.

Correct

Incorrect



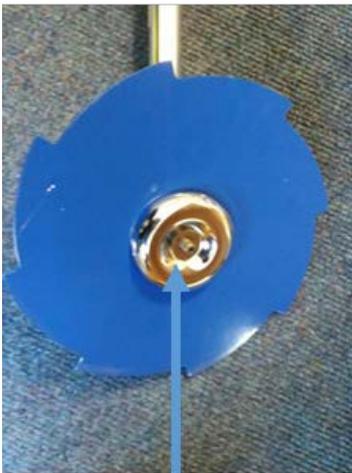
Clamp spacer

Fit cup spacer and securing nut. Lock the shaft as in section 2.7 and fully tighten. N.B. if machine vibrates excessively in use then STOP machine and make sure that the blade is correctly fitted – If in doubt contact Hyundai aftersales department.

Correct

Incorrect

Correct



Retention cup

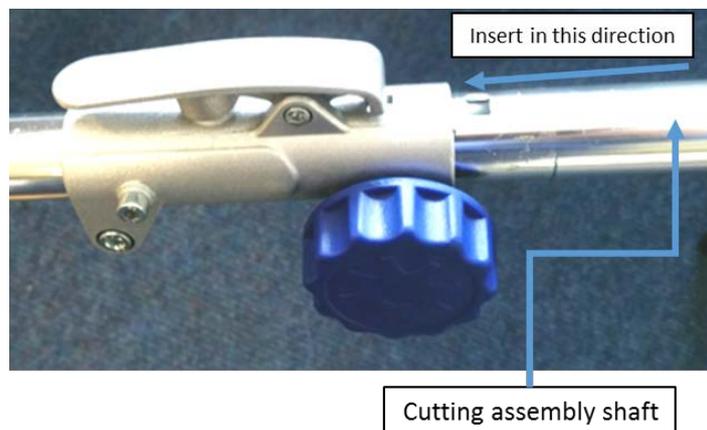
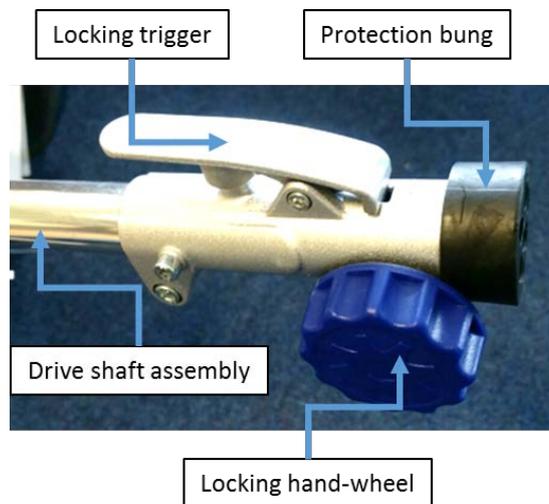
Securing nut

To fully tighten use the supplied spark plug box spanner. N.B. To tighten you need to turn box spanner in an anti-clockwise direction.



2.9. Attaching cutting assembly to drive shaft.

To attach the cutter assembly remove the protection bung (retain for future use) – undo the locking hand wheel, press the locking trigger and insert the cutter assembly into the drive assembly until it locates with the shaft. Once located the locking trigger will drop into place, pull shaft in outward direction to make sure it has locked. Once this is done tighten the locking hand wheel.



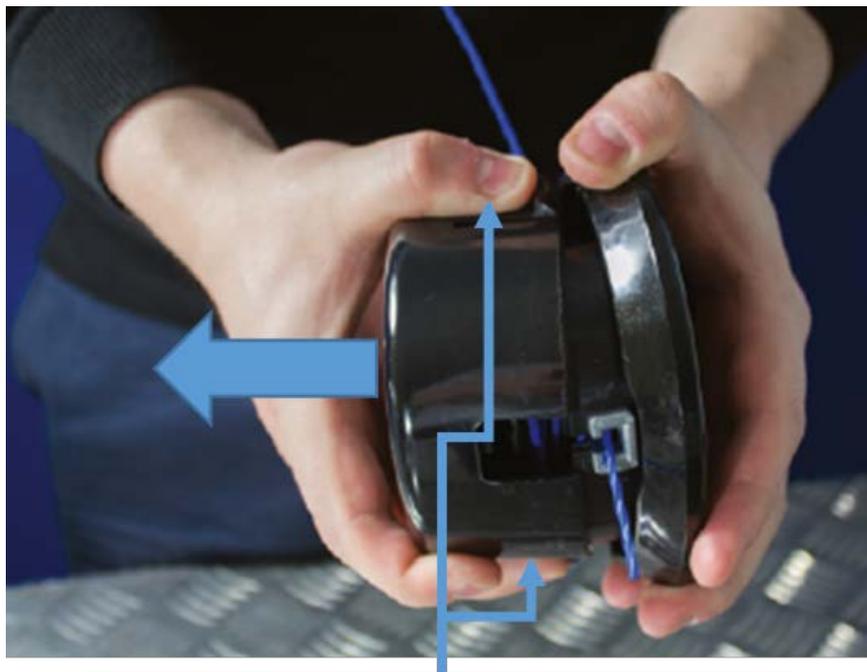
2.10. Head shield/Ear defender assembly.

Rotate to align the tags on the helmet to match the holes on the top of the visor. Place the visor over the tags, then rotate the tags 180° to secure into place. Place the ear defenders over the outside of the headband on the helmet and place into the clips.



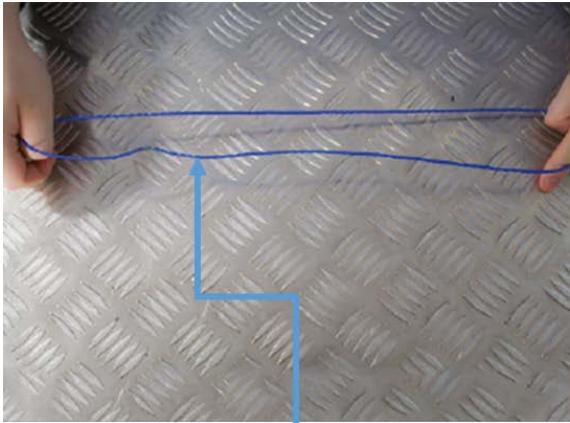
2.11. Fitting/replacing spool line.

Squeeze the bump head unit either side on the grooves and pull to remove the top of the head. Remove the spool, spring and washer from the spindle.

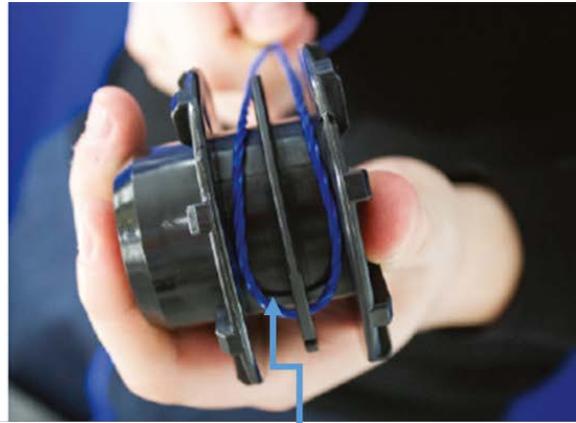


Squeeze head and remove top of head

With the bump feed facing outwards from your left hand, take the looped end and place it around the holder in the middle of the spool as shown below. You will need approximately 3 metres of 2.5 mm of nylon cord



Take cutting line and fold in half

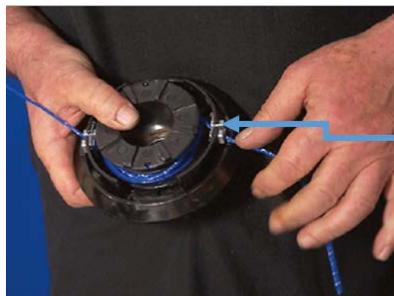


Place the looped end over the spool

Wrap the nylon cord around the spool in an anti-clockwise direction until you have approximately - 150 mm (6"). Then insert spool back into the spindle. Feed the line through the two notches in the spindle and reinsert the washer and spring into the spool. Once complete re-attach the spindle to the cutting head.



Wrap the nylon cord around the spool in an anti-clockwise direction until you have approximately - 150 mm (6").



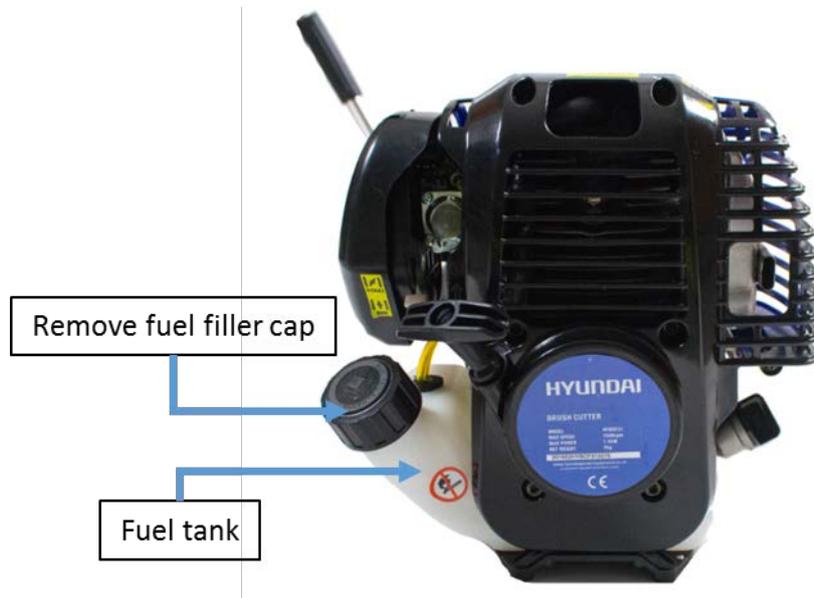
Then insert spool back into the spindle. Feed the line through the two notches in the spindle.



Reinsert the washer and spring into the spool. Once complete re-attach the spindle to the cutting head.

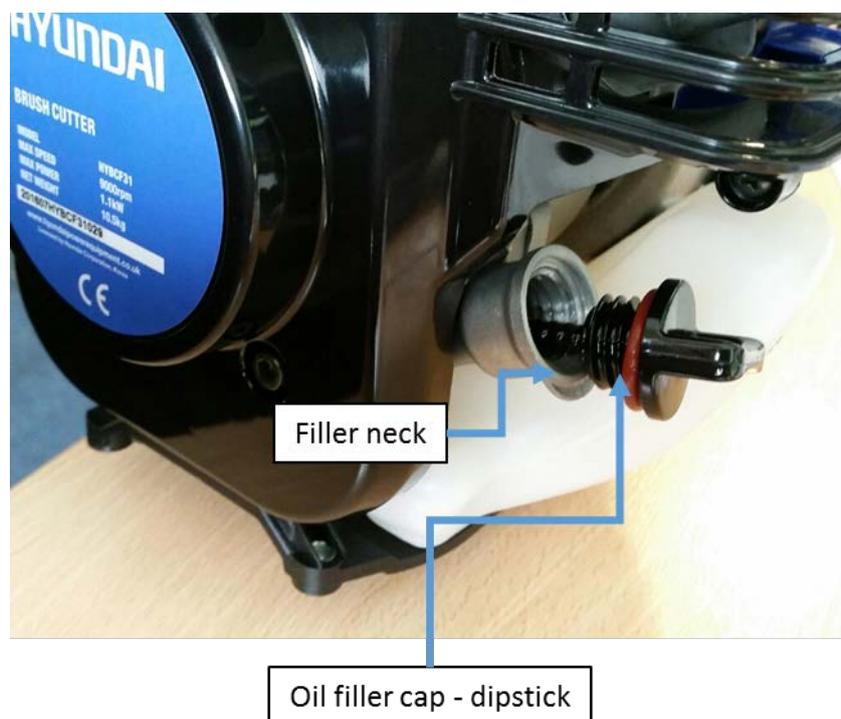
2.12. Adding fuel.

Unscrew the fuel tank cap and carefully add fresh straight unleaded petrol DO NOT overfill and allow a 25 mm gap at the top of the tank. Once full replace and correctly tighten the fuel cap. Fuel tank capacity is 600ml. ONLY USE straight unleaded petrol.



2.13. Adding oil.

Unscrew the oil filler cap (dipstick) and fill with 80 ml of SAE15W40 oil fill to the top thread of the filler neck. N.B. There may be residual oil in crankcase so be careful not to overfill when filling with oil. If you overfill with oil just pour excess oil into a suitable container – DO NOT dispose of oil down drains or onto the ground.

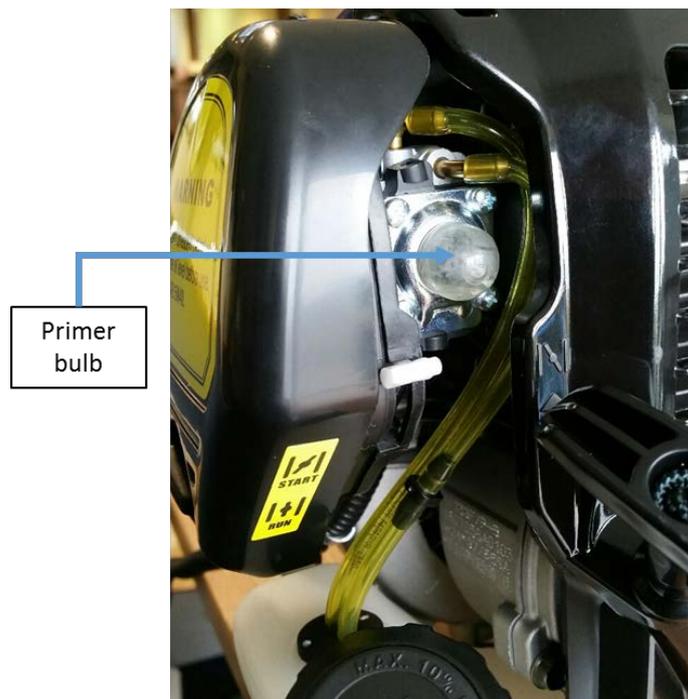


3. STARTING PROCEDURE

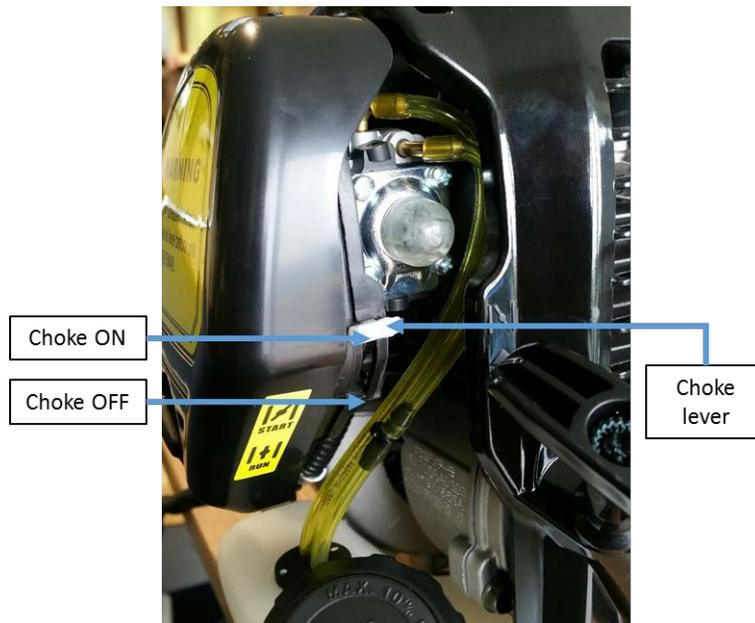
Fill with fresh unleaded petrol and SAE15W40 oil. Make sure the fuel and oil caps are secure – see section 2.11./2.12. - Set the power switch on the handle to the ON position.



Pump the primer bulb about 8 to 10 times until fuel shows in the bulb.

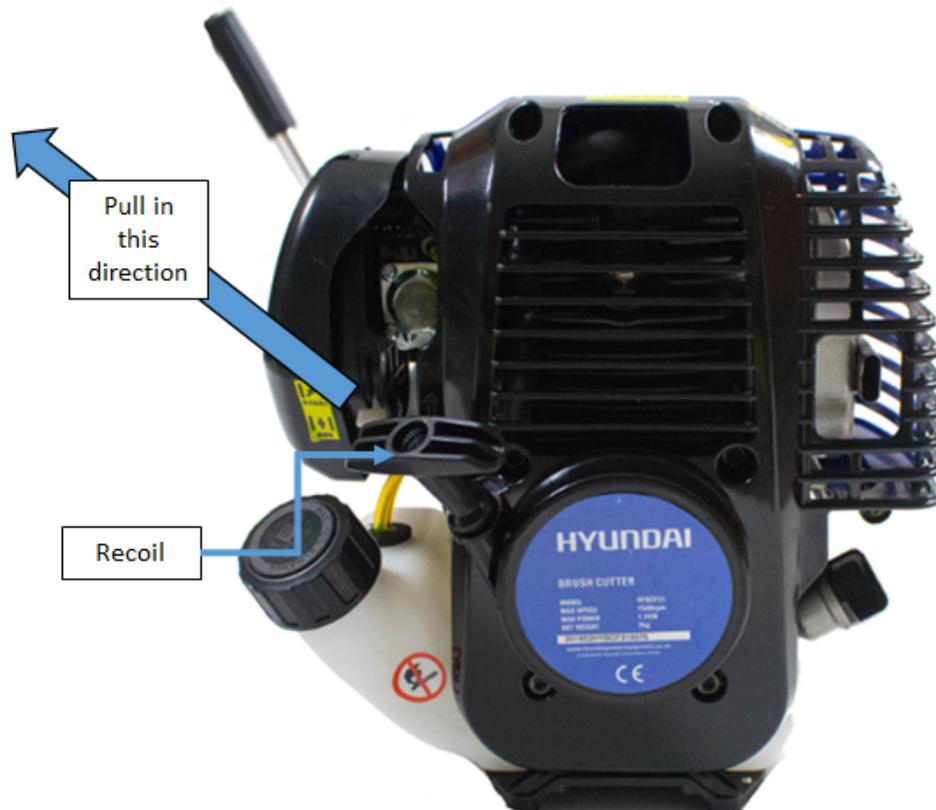


For COLD start move choke lever UP to start position.
N.B. For a WARM/HOT start you will not need to do this.



Place one hand on the machine, and using the other hand pull the recoil until you feel a resistance, then pull briskly. Repeat until machine starts.

When the engine starts and move the choke to the OFF position. DO NOT let go of the recoil handle instead allow the recoil cord to return gently. Once started you need to reduce the choke by slowly moving lever to RUN position if engine falters move choke between START/RUN positions and adjust until engine runs smoothly.



Once the engine has been started and allowed to warm up you can use the throttle lever to accelerate the engine speed. You can also use the Throttle lock button – this allows you to set the throttle. To release the throttle lock just press the throttle lever gently to release the lock button.



4. STOPPING PROCEDURE

- 4.1. Before stopping the machine allow the engine to cool down for a few minutes, by allowing it to run without throttle.
- 4.2. You MUST allow the cutting head to come to a full stop before carrying out any maintenance on the machine.

To STOP the machine release the throttle lever, allow the machine to cool down with no throttle then move the power switch to the OFF position.
If not already in OFF position move the choke to the OFF position.



5. USING THE MACHINE

WARNING

You MUST STOP using the machine if any of the following occur.

- The engine speed changes with no control.
- When blades are damaged
- In case of misfire
- In case of high vibration.
- When flames or smoke appear.
- In rain or stormy weather.

CAUTION

If you are not familiar with this type of machine you should practice in a safe place.

5.1. Accessories.

5.2.1. Make sure that your product is only equipped with original accessories. Only use the machine with original parts which are specified by the manufacturer. The use of any other accessories may cause injury to the user and damage to the machine.

5.2. Wearing the shoulder harness.

CAUTION

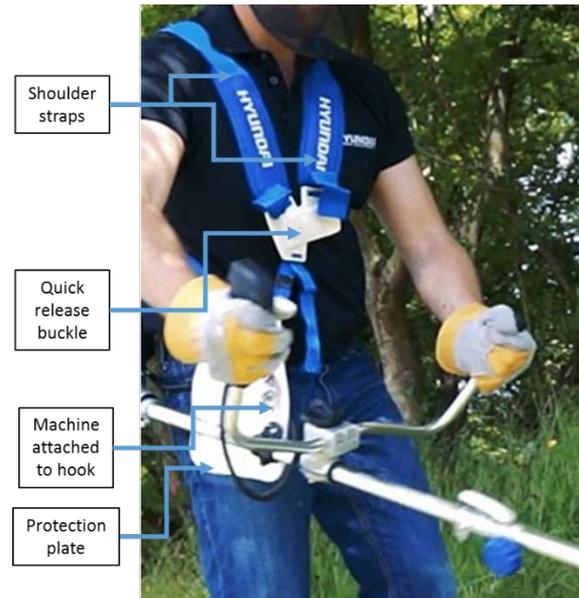
When you use this machine always wear the provided harness.

Make sure that the machine is securely hooked onto the strap.

If you do not, you will not be able to control the machine safely.

This may result in injury to yourself or other people.

Never use a harness with any type of defect especially with a defective quick release mechanism.



5.3. Trimming techniques.

Always trim or cut with the engine running at high speed.

5.3.2. Do not run the machine slowly except for when warming up before use or cooling down after use.

5.3.3. Swing the nylon cutting head of the trimmer horizontally from left to right.



5.3.4. Keep cutting deck parallel with the ground. Do not tilt the nylon cutting or blade head during operation.

5.3.5. For correct cutting height trim in advance in a test area.

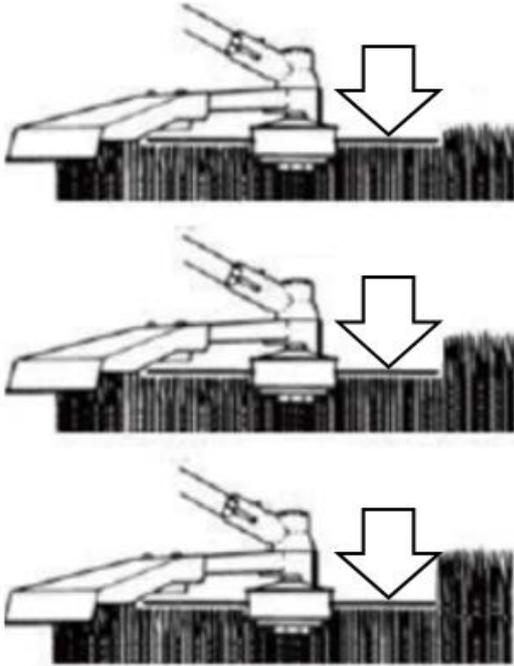
5.3.6. Keep nylon cutting or blade head at the same level for even depth of cut.

5.3.7. Nylon trimming head is only to be used for cutting grass.

5.3.8. Metal blade head is only to be used

for brush only.

5.3.9. To prevent overheating NEVER over cut, instead cut off smaller lengths of grass or brush. You MUST also remove any tangled materials – You MUST stop the machine and remove the HT lead before carrying out this task.



5.4.1. ALWAYS clear the work area of cans, bottles, rocks, etc. Flying or whirling objects may cause serious injury and damage to users or bystanders. If an object is accidentally flung out from machine, immediately stop and check the machine

5.4.2. Always trim at high speeds.

5.4.3. Maneuver the cutting head of the trimmer horizontally from one side to the other.

5.4.4. Keep cutting deck parallel with the ground.

5.4.5. DO NOT tilt the nylon cutting head during operation.

5.4.6. For correct cutting height carry out a test trim in advance in a test area.

5.4.7. NEVER let the machine run with damaged or defective parts.

5.4.8. Trimmer is to be used for trimming grass only. Brush cutter is to be used for trimming denser vegetation only.

5.4.9. NEVER raise the nylon cutting head above knee height during operation.

5.4.10. DO NOT use the machine on a slope or uneven ground or if there is the chance of slipping or losing the stability.

5.4.11. NEVER over cut – instead cut short lengths then cut successively lower heights.

CAUTION

ALWAYS stop the machine before removing grass deposits. To prevent overheating of the drive axle remove all tangled grass and weed fibre. The tangled grass and weed fibre/s prevent the shaft from cooling properly. Remove grass deposits with a screwdriver or similar tool.

5.5. Trimming around trees.

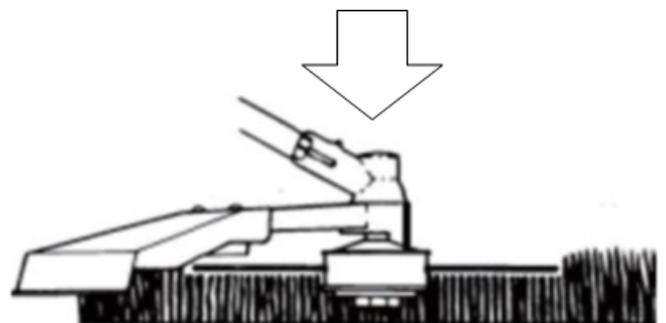
5.5.1. Trim around trees carefully this will prevent damage to the tree, and tree bark.

5.5.3. Move around the tree in a clockwise direction. Approach grass/weeds with the tip of the cutting cord.

5.5.4. To replace worn out cord refer to section **2.11. Installing/Replacing cutting cord.**

5.6. Extending the cutting cord.

5.6.1. To extend the cutting line run the motor at full speed and tap the cutting head on the ground. This will automatically extend the line. The cord cutter on the cutting attachment guard will cut the line to the appropriate length.



5.7. Kickback.

5.7.1. Kickback is a sudden reaction to a pinched or snagged rotating blade.

Pinching or snagging causes rapid stalling of the rotating blade which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

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

- Maintain a firm grip on the machine and position your body and arm to allow you to resist kickback forces.
- ALWAYS use both hands on the handle bar for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.
- NEVER place your hand near the rotating blade. The blade may kickback over your hand.
- DO NOT position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the blades movement at the point of snagging.
- Use special care when working corners, sharp edges etc.
- Avoid bouncing and snagging the accessory.
- Corners, sharp edges or bouncing have a tendency to snag the rotating blade and cause loss of control or kickback.

6. MAINTENANCE

WARNING

Always stop the engine and unplug the spark plug before doing any repairs or maintenance. Never touch the rotating nylon cord or blade.

Check and maintain fuel level regularly, and maintain the fuel/oil mix to the correct ratio. Frequently check the brush cutter and make sure that all grass deposits are removed from the trimmer head and trimmer guard.

At regular intervals, check the tightness of all nuts, bolts and screws.

If the blade hits an obstacle check for damage and if the machine vibrates badly stop the lawnmower and take it to a service dealer.

CAUTION

Always refuel in a well-ventilated area with the engine off and spark plug HT cap removed. Whilst carrying out maintenance you must wear appropriate Personal Protective Equipment (PPE). Suggested PPE Sturdy footwear, work gloves (especially when working near cord cutter blade), long trousers and hearing protection.

Maintenance	Daily	Weekly	Monthly
Clean the outside of the machine.	*		
Make sure the throttle trigger lock and the throttle function correctly.	*		
Check that the engine switch works correctly.	*		
Check that the blades do not move when the engine is idling or when the choke is in the start throttle position.	*		
Check that the blades are undamaged and show no signs of cracking or other damage. Replace the blades if necessary.	*		
Check that the blade guard is not damaged or distorted. Replace the blade guard if it is bent or damaged.	*		
Check that there are no fuel leaks from the engine, tank or fuel lines.	*		
Check that nuts and screws are tight.	*		
Check the starter and starter cord.		*	
Clean the outside of the spark plug. Remove it and check the electrode gap. Adjust the gap to 0.6 to 0.7 mm or replace the plug. Check that the spark plug is fitted with a spark plug cap.		*	
Clean the machine's cooling system.		*	
Clean the outside of the carburetor and the space around it.		*	
You MUST only use HYUNDAI approved spares			

Maintenance		Daily	Weekly	Monthly
Check the flange, cap and nut are assembled correctly and tightened			*	
Clean the fuel tank.				*
Check all cables and connections.				*
Check the clutch, clutch springs and the clutch drum for wear. Replace if necessary by an authorized service workshop.				*
Replace the spark plug. Check that the spark plug is fitted with a spark plug cap.				*
To reduce the fire hazard, clean dirt, leaves and surplus lubricant, etc. from the exhaust and engine.				*
MAINTENANCE should be carried out at REGULAR INTERVALS in each of the indicated months or after a certain number of hours of operation (Whichever comes first). (see notes 1 & 2)		Monthly or after every 25	Every three months or 50 hours	Every six months or after 100 hours
Engine oil	Change	*	* (1)	
Bevel gear	Fill	*		
Air filter	Clean		* (1)	
Valve-clearance	Check/Clean			* (2)
Fuel tank and filter	Clean			* (2)
Fuel feed line	Check replace if necessary	Every three years (2)		
You MUST only use HYUNDAI approved spares				

a = Increase maintenance intervals if operating in dusty environments. b = All maintenance operations - except those listed in the operating instructions, must be performed by qualified service personnel

6.1. Air filter.

CAUTION

Never let the engine run without the air filter being fitted. A dirty air filter element affects the engine performance, increases fuel consumption and makes it difficult to start. If you notice a loss of engine power, check the air filter.

You MUST make sure that the housing is free of dust and debris DO NOT allow any dust or debris to enter the carburetor.

6.1.1. Remove the air filter cover by unscrewing the air cover screw in an anticlockwise direction, carefully remove the cover.

6.1.2. Once the air filter cover has been removed you can remove the foam filter element. If it is damaged replace it. Otherwise wash the filter element in warm soapy water rinse with clean water. Allow to air dry then put a few drops of oil onto the filter squeeze excess oil from filter before replacing filter element.

N.B. To reinstate the filter assembly reverse the above process.



6.2. Spark plug.

WARNING

The spark plug **MUST** be fully tightened otherwise the engine will overheat causing damage. Always complete the following steps after the engine has been turned off and allowed to cool down.

6.2.1. To make sure the engine runs correctly a spark plug gap of 0.6 -0.7 mm must be maintained and the spark plug must be free of carbon deposits.

6.2.1. To remove the spark pull off the HT lead and then undo the spark plug using the supplied box spanner in an anti-clockwise direction.

6.2.3. Once the plug has been removed check it for visual damage, electrode wear and carbon deposits. Replace a damaged or badly worn spark plug. Clean off any carbon deposits by using a soft brass brush.

6.2.4. Check the gap with a feeler gauge and adjust electrode at the correct gap of 0.6 -0.7 mm.

6.2.5. Check the spark plug washer for damage and replace if required.

6.2.6. Refit the spark plug by hand to make sure it does not cross thread, tighten the spark plug to a torque of 12/15Nm.



Spark plug

HT Lead



Spark plug box spanner



Gap 0.6 mm to 0.7 mm

Washer

6.3. Adjusting the idle speed.

6.3.1. A screw just behind air filter cover regulates the throttle setting at idle speed. If it becomes necessary the user can adjust the idle speed.

6.3.2. Before adjusting, make sure that the air filter is clean and the air filter cover is fitted

6.3.3. Turning the screw clockwise increases the idle speed; turning it anti-clockwise decreases the idle speed.

6.3.4. The idle speed is correctly adjusted when the engine runs smoothly in every throttle position. There should also be a clear margin to the speed at which the trimmer head starts to move. The trimmer head must also remain stationary when the choke control is in the start throttle position.



Idle speed adjusting screw



Idle speed adjusting screw – with air filter cover removed

6.4. Trimmer blade sharpening



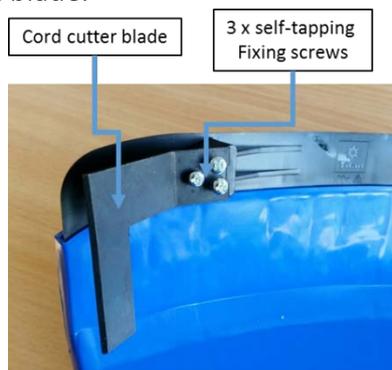
WARNING

When sharpening the blade you MUST wear safety gloves.

6.4.1. Remove the cutting blade from the shield. Remove the blade by undoing the 3 self-tapping screws (put in a safe place). Place the blade firmly into a vice.

6.4.2. Sharpen blade using a suitable flat file. You MUST maintain the blades original cutting angle.

6.4.3. Reverse process to refit blade.



6.4. Storage.



If you do not follow these steps, deposit may arise in the carburetor. This will cause starting difficulties and may cause permanent damage.

6.4.1. Perform all the general maintenance that the maintenance section of your 'User Manual' is recommended.

6.4.2. Clean the outside of the machine, drive axle, shield and nylon cutting head.

6.4.3. Remove all fuel from the fuel tank, by undoing fuel cap and tipping content into a suitable container. DO NOT use stale fuel/oil mixture in the next season.

6.4.4. After all the fuel has been removed from the fuel tank. Start the engine. Allow the engine to run in idle until engine stops alone. This allows the fuel to be removed from the carburetor.

6.4.5. Allow the engine to cool down for about five minutes.

6.4.6. Remove the spark plug and pour 1 teaspoon of clean oil into the combustion chamber. Slowly pull the starter rope several times to coat internal components. Replace the spark plug.

6.4.7. Store the machine in a cool, dry place away from any source of ignition such as an oil burner, water heater etc.

6.5. Transporting the machine.

6.5.1. When transporting the machine make sure that no fuel is allowed to leak out.

6.5.2. DO NOT allow the trimmer to come into contact with persons, animals and property.

7. TROUBLESHOOTING

CAUTION

7.1. If troubleshooting does not solve the problem, contact your dealer or the manufacturer directly. Use only original parts approved by the manufacturer, otherwise a hazard risk arises.

THE ENGINE STALLS, IS DIFFICULT TO START OR DOES NOT START - The fuel does not arrive at the carburetor

Possible causes;

1. Fuel filter is blocked.
2. Fuel supply blocked.
3. Carburetor fault

Possible corrective actions;

1. Clean or replace.
2. Clean or replace.
3. Seek advice from your dealer.

THE ENGINE STALLS, IS DIFFICULT TO START OR DOES NOT START - Fuel at the cylinder

Possible causes;

1. Carburetor - The fuel does not arrive at the cylinder.
2. The fuel mixture is too rich.

Possible corrective actions;

1. Seek advice from your dealer.
2. Open the throttle valve, clean or replace the air filter. Adjust the carburetor. Ask your distributor for advice.

THE ENGINE STALLS, IS DIFFICULT TO START OR DOES NOT START - Spark at the spark plug electrodes, there is no spark.

Possible causes;

1. Switch is at OFF position.
2. Electrical wiring fault.
3. Switch locked.

Possible corrective actions;

1. Move switch to ON position.
2. Ask your distributor for advice.
3. Ask your distributor for advice.

THE ENGINE STALLS, IS DIFFICULT TO START OR DOES NOT START - Spark at the spark plug, there is no spark.

Possible causes;

1. Incorrect spark plug gap.
2. Electrode contaminated.
3. Electrode wet with fuel.
4. Defective spark plug.

Possible corrective actions;

1. Adjust gap to 0.6 mm to 0.7 mm.
2. Clean spark plug.
3. Dry spark plug allow excess fuel to evaporate.
4. Replace spark plug.

THE ENGINE TURNS, BUT STALLS OR DOES NOT ACCELERATE CORRECTLY

Possible causes;

1. Poor air supply.
2. Dirty fuel.
3. Fuel vent blocked.
4. Dirty or worn spark plug.
5. Carburetor.
6. Cooling.
7. Spark suppressor cracked, contaminated or perforated.

Possible corrective actions;

1. Check, clean or replace air filter.
2. Dirt or residue in fuel, flush and replace with fresh fuel.
3. Clear blockage.
4. Clean, adjust or replace.
5. Adjust.
6. Clean machine cooling fins.
7. Replace.

THE ENGINE WILL NOT START

Possible causes;

1. If all previous troubleshooting does not help.

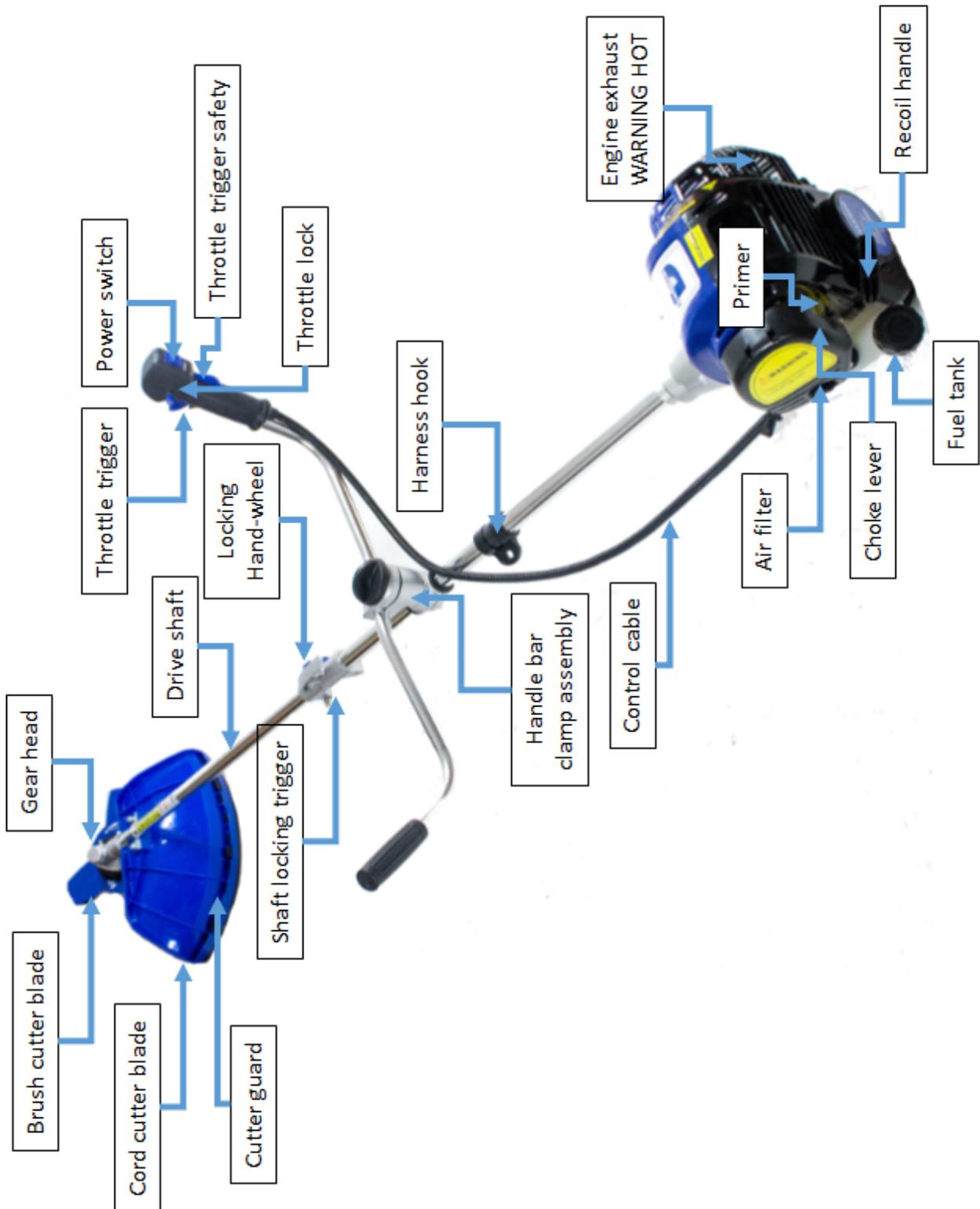
Possible corrective actions;

1. Contact your dealer for advice.

8. SPECIFICATION

	MODEL	HYBCF31
ENGINE	Engine type	Single cylinder, air cooled
	Engine size – cc	31
	Fuel tank capacity – ml	600
	Noise level – dB (A)	113
	Power – kw	0.7
	Start method	Recoil
	Fuel type/ratio	Fresh unleaded petrol
MACHINE	Bevel gear grease type/qty ml	High temperature gear grease/25
	Cord head line length/diameter mm	3000/2.5
	Cord cutting width - mm	450
	Brush cutter blade width/hole bore - mm	255/25.4
	Gross weight – kg	11.8
	Dry weight – kg	7.8
	Fully assembled dimensions L x W x H - mm	1820 x 750 x 500

9. PART LOCATIONS



10. DECLARATIONS OF CONFORMITY

Genpower Ltd confirms that these Hyundai products conform to the following CE Directives;
2006/42/EC Machinery Directive
2004/108/EC EMC Directive
2000/14/EC, Amended by 2005/88/EC Noise Emissions Directive
97/68/EC_2010/26/EC NRMM Emissions 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, Amended by 2005/88/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:	HYBCF31
Type/Serial No:	Brush-cutter/Grass trimmer
Power:	1.1 kW
Cutting Width:	Blade 255mm, Trimmer cord 430 mm
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:	TÜV SÜD Product Service GmbH, Zertifizierstelle, Ridlerstraße 65 80339, MÜNCHEN Germany.
Certificate Number/Test Report number	M8A 15 08 75033 045/70.403.13.812.02-01
Measured Sound Power Level:	112dB(A)
Guaranteed Sound Power Level:	113dB(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:	10 th January 2016
Signed by:	Kevin Stanley
Position in Company:	Product Manager
Name and address of manufacturer or <u>Authorised representative</u> :	



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

11. RECYCLING & PRODUCT DISPOSAL

11.1. 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.

11.2. 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.

11.3. Waste Electrical Electronic Equipment (WEEE) recycling.



11.3.1. Certain products contain WEEE waste which should not be disposed of in your domestic waste.

11.3.2. You MUST recycle WEEE in accordance with your local authority or recycling centre.

11.4. Battery recycling, certain products contain batteries which should not be disposed of in your domestic waste.



11.4.1. You MUST recycle batteries in accordance with your local authority or recycling centre.

11.5. 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.

11.6. The following symbol means that you should 'Reduce – Reuse – Recycle'.



11.7. We are a Member of the VALPAK National Compliance scheme and our registration number is **RM08660**.

11.8. For further information about disposal please contact your Local Authority.

11.9. You can also get more advice and guidance about recycling at the following website <http://www.recycle-more.co.uk>

11.10. 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.

12. CONTACT DETAILS

POSTAL ADDRESS

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

TELEPHONE

+44 (0) 1646 687880

FAX

+44 (0) 1646 686198

TECHNICAL E-MAIL

service@genpower.co.uk

WEBSITE

www.hyundaipowerequipment.co.uk

13. MANUAL UPDATES

13.1. Our manuals are constantly being reviewed and updated. Should you find an error, omission or something you find unclear please contact your dealer for assistance. E&OE.

13.2. Our latest manuals are also placed online.

13.3. We reserve the right to make any modifications without prior notice whenever necessary.

14. WARRANTY

14.1. For specific warranty and warranty exclusions details for your product please visit our Customer services section on our website at www.hyundaipowerequipment.co.uk
If you require a hard copy of Warranty details please contact aftersales on aftersales@genpower.co.uk

HYUNDAI

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