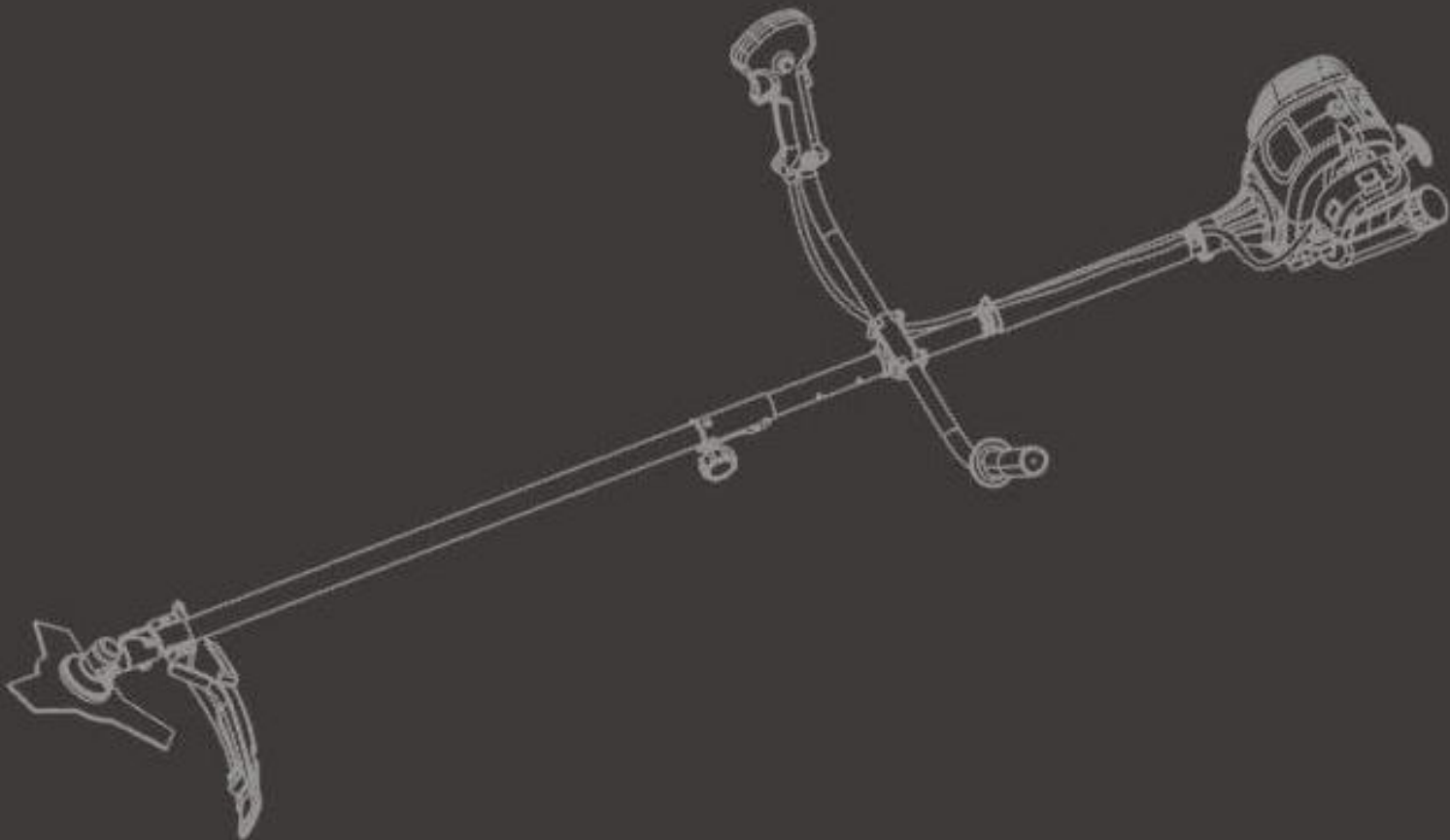


**HYUNDAI**  
POWER PRODUCTS

# PETROL BRUSHCUTTER HY4BC31

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User Manual



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# 1. SAFETY

## 1.1 General Safety Notes.

- 1.2 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.
- 1.3 Please note the following safety points.
- 1.4 The machine should never be left in a condition which would allow an untrained or unauthorised person/s to operate this machine.
- 1.5 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.
- 1.6 Some or all of the following - warning signs, symbols and/or PPE pictograms may appear throughout this manual. You **MUST** adhere to their warnings. 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

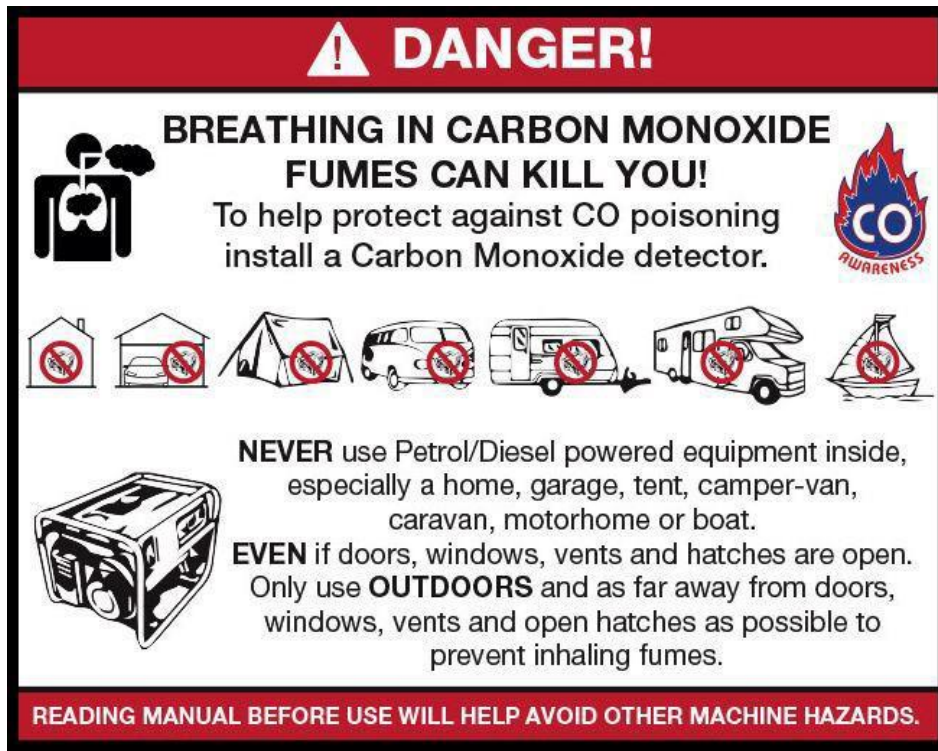
Indicates a situation that could easily result in equipment damage.

READ and keep the manual safe and pass it on if the machine is loaned or sold to another user.

You **MUST** fully understand all instructions to ensure you use and operate the machine safely.

Appropriate Personal Protective Equipment (PPE), **MUST** be worn at all times when operating or repairing the machine.





#### 1.10 Carbon Monoxide (where applicable).

1.11 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.

1.12 The symptoms of carbon monoxide poisoning can include but are not limited to the following;  
Headaches, dizziness, nausea, breathlessness, collapsing or loss of consciousness.

1.13 Carbon monoxide poisoning symptoms are similar to flue, food poisoning, viral infections and simply tiredness. It is quite common for people to mistake this very dangerous poisoning for something else.

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

1.15 If you think you have or someone around you has been affected by carbon monoxide poisoning;

1.16 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.

1.17 Contact a Doctor immediately or go to Hospital – let them know that you suspect carbon monoxide poisoning.

1.18 **DO NOT** use in an enclosed area or moving vehicle.

#### 1.20 General Fuel Safety (where applicable).



## CAUTION

### ALL FUELS ARE FLAMABLE

- 1.21 Fire Hazard – keep fuel away from all sources of ignition for example heaters. Lamps, sparks from grinding or welding.



- 1.22 **DO NOT** carry out hot work on tanks that have contained fuel.

- 1.23 **ALWAYS** keep the work area tidy.

- 1.24 **ALWAYS** clean up spills promptly using absorbent granules and a lidded bin.

- 1.25 **ALWAYS** dispose of waste fuels correctly.

- 1.30 Fueling/De-fueling (where applicable).



## CAUTION

### ALL FUELS ARE FLAMABLE

- 1.31 **ALWAYS** fuel and defuel in a well ventilated area outside of buildings.

- 1.32 **ALWAYS** wear correct, suitable and fit for purpose Personal Protective Equipment (PPE), suggested items are but not limited to safety gloves, overalls.



- 1.33 When fueling/de-fueling **ALWAYS** avoid inhaling fumes.

- 1.34 When de-fueling **ALWAYS** use a proper fuel retriever.



- 1.35 **ALWAYS** carry fuel in the correct and clearly marked container.

- 1.40 **Electrical Safety )where applicable).**

- 1.41 Electricity can kill – **NEVER** work on **LIVE/ENERGISED** equipment.

- 1.42 Prior to carrying out any maintenance work you **MUST** identify electrical isolation methods and isolate all electrical supplies.

- 1.43 Prior to use and with all electrical supplies isolated, you **MUST** check all electrical cables, plugs and connectors for the following;

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

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

1.46

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

1.47



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

1.50

**Batteries (where present).**

1.51

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 a liquid or gel form.

1.52

Should you come in to contact with electrolyte you should;

1.53

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

1.54

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

1.55

Lead/acid battery = dilute sulphuric acid.

1.56

Nickel/cadmium = potassium hydroxide alkali electrolyte.

1.57

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 your body or face.

1.58

If electrolyte comes in to 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 your face or body.

1.59

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

1.59.1



There is an explosion risk if the battery terminals are short circuited, when connecting/disconnecting **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.

1.60

**Vibrations (where applicable).**

1.61

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.

- 1.62** 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 of white finger and carpal tunnel syndrome;
- 1.63** Wear gloves and keep your hands warm.
- 1.64** Take regular breaks.
- 1.65** All of the above precautions may help reduce the risk of white finger disease but not rule out the 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.
- 1.70** **Noise (where applicable).**
- 1.71** 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 hearing ear protection because your ability to hear alarm warnings will be reduced.
- 1.72** 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.
- 1.73** See Certificate of Conformity section for Outdoor Noise declaration of conformity.



## MACHINE SPECIFIC SAFETY

- 1.80** **General Machine Safety.**
- 1.81** Read the owner's manual carefully to understand how to operate this machine properly.
- 1.82** You should **NEVER** use the machine when;
- 1.83** Wearing loose clothing, barefoot or sandals.
- 1.84** Under the influence of drink or drugs or as a result of having taken medication for cold or flu, or any other times when a possibility exists that your judgement might be impaired or that you might not be able to operate the machine properly and in a safe manner.
- 1.85** Suffering from exhaustion or lack of sleep.
- 1.86** When the ground is slippery or when other conditions exist which might make it not possible to maintain a steady posture.



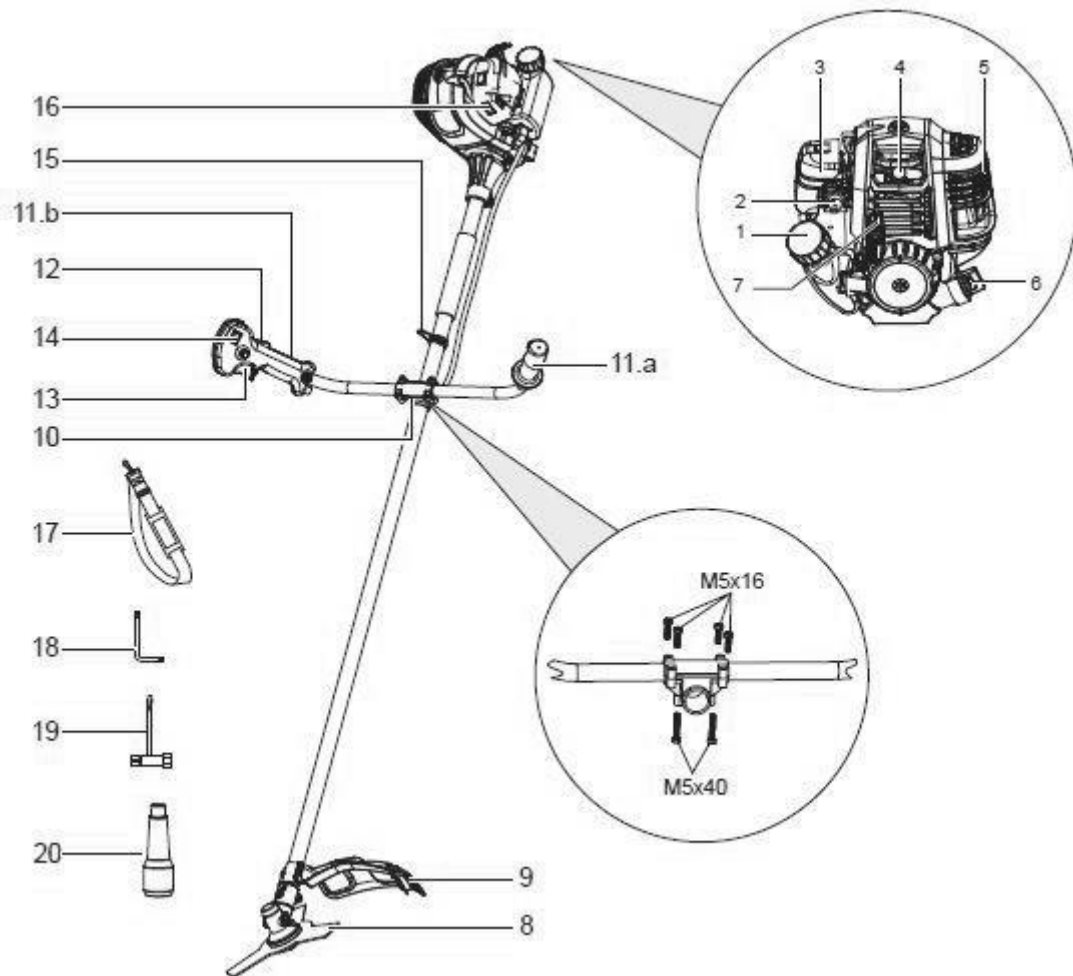
- 1.87** At night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to gain a clear view of the area.
- 1.88** During rain storms, lighting storms, at times of strong or gale force winds, or at any other times when the weather conditions might make it unsafe to use this product.
- 1.89** **NEVER** run the engine indoors. The exhaust gasses contain harmful carbon monoxide.
- 1.90** When using this machine for the first time and before actual work, you **MUST** learn how to handle the machine from an experienced or skilled person.
- 1.91** Limit the amount of time using the machine continuously to somewhere around 10 minutes per session and take 10 to 20 minutes of rest between sessions. Also try to keep the total amount of work in a single day limited to 2 hours or less.
- 1.92** **NEVER** allow children or anyone unable to fully understand the directions given in this manual to operate this product.
- 1.93** Make sure you keep this manual handy so you may refer to it whenever questions arise and ensure you pass this manual on if the machine is loaned or sold.
- 1.94** Correct Personal Protective Equipment (PPE) **MUST** be worn at all times when operating or repairing this machine. This should include but is not limited to;



- 1.95** **DO NOT** use this machine inside a confined space such as but not limited to a vehicle, house, garage, container, boat or building. Only use outside in a well ventilated area.
- 1.96** For air cooling a minimum of 1m is required all around the machine.
- 1.97** Maximum ambient temperature 40 degrees Celsius.
- 1.98** Fire risk- Fuel can expand and overflow in a hot environment or moving vehicle.
- 1.99** Explosion risk- LPG/ Petrol can leak and the vapour is heavier than air. Never store in confined spaces especially in a boat where the vapour/has will accumulate in the hull and create a high risk of explosion.
- 1.99.1** Carbon monoxide poisoning risk- Never run an engine in a confined space or poorly ventilated area. Keep the machine away from windows to prevent fumes entering the internal space. Carbon monoxide is produced by the engine and contained in the exhaust fumes. You cannot see it or smell it and it can kill you in minutes.
- 1.99.2** Never use inside a confined space with an exhaust extension. If the exhaust extension fails the escaping exhaust gases could kill you.



## 2. PART LOCATIONS



|    |                         |         |                     |
|----|-------------------------|---------|---------------------|
| 1  | Fuel Filler Cap         | 11a/11b | Left & Right Handle |
| 2  | Primer Bulb             | 12      | Throttle Lockout    |
| 3  | Air Filter              | 13      | Throttle Trigger    |
| 4  | Spark Plug              | 14      | On/Off Switch       |
| 5  | Exhaust                 | 15      | Harness Hook        |
| 6  | Oil Filler Cap/Dipstick | 16      | Choke Button        |
| 7  | Recoil Starter Handle   | 17      | Harness             |
| 8  | Cutting Blade           | 18      | Allen Key           |
| 9  | Cutting Head Guard      | 19      | Box Wrench          |
| 10 | Handle Bar Mount        | 20      | Measuring Bottle    |

### 3. PACKAGE CONTENTS



|   |                                     |    |                          |
|---|-------------------------------------|----|--------------------------|
| 1 | Main Power Unit with Control Handle | 7  | Engine Oil Filler Bottle |
| 2 | Lower Shaft                         | 8  | Handle Mounting Bracket  |
| 3 | User Harness                        | 9  | Trimming Head            |
| 4 | Lower Guard                         | 10 | Box Spanner              |
| 5 | 2 <sup>nd</sup> handle              | 11 | Torx Wrench              |
| 6 | Brush Cutting Blade                 | 12 | User Manual              |

Please check the contents and if anything is missing, contact your dealer before assembly.

## 4. ASSEMBLY



### WARNING

To prevent an accidental start that could cause serious personal injury, always disconnect the engine spark plug HT lead from the spark plug when assembling parts.



### WARNING

Never install, remove or adjust any attachments while power head is running. Failure to stop the engine can cause serious personal injury.



### WARNING

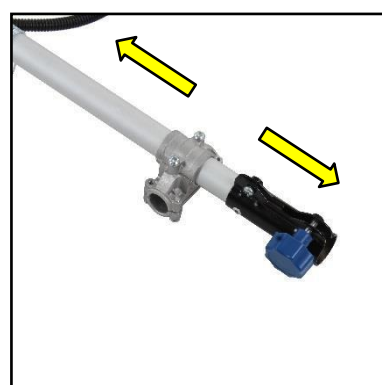
**ALWAYS** wear thick gloves when changing the blades on this machine.



Assembly video available on the Hyundai Power Equipment YouTube channel.

## HANDLE ASSEMBLY

- 2.0 Unscrew the 2 screws from the back of the handle mounting bracket using the torx wrench provided.
- 2.1 Place it on the upper shaft in between the harness clip and locking hand wheel. Ensure the bracket is the correct way up with the 2 screws facing towards the ground.
- 2.2 Reinsert the 2 screws removed and tighten hand tight as once fully assembled the mount can be slid up and down the shaft to find a comfortable working position and then tightened fully.



- 2.3 Loosen the 4 screws on the top of the handle mounting bracket.  
DO NOT remove the screws completely.
- 2.4 Slide the right hand handle into the middle of the handle mounting bracket at a 90° angle to the main shaft.
- 2.5 Slide the left hand handle into the other side of the handle mounting bracket until it butts up against the right hand handle and adjust to a 90° angle to the main shaft.
- 2.6 Tighten the 4 screws on the handle mounting bracket finger tight as once fully assembled, the handle bar angle can be adjusted to a comfortable working position before tightening fully.



## LOWER GUARD ASSEMBLY

- 2.7        Locate the lower guard mounting bracket which is attached towards the bottom of the lower shaft, near the brush cutter/trimmer head.
- 2.8        Insert the tab on the mounting bracket, into the slot on the guard.
- 2.9        Place the screw through the hole on the mounting bracket into the hole on the lower guard and tighten using the torx wrench



## GRASS TRIMMER HEAD



**NOTE** The grass trimmer/brush cutter uses a **LEFT HANDED THREAD**.  
To tighten turn anti-clockwise, to loosen turn clockwise.



|   |                      |   |             |
|---|----------------------|---|-------------|
| 1 | Splined Drive Flange | 3 | Bump Washer |
| 2 | Domed Washer         | 4 | Shaft Nut   |

## LOADING LINE ON TO SPOOL



### CAUTION

There is a spring inside the grass trimmer head. Take care when disassembling as to not lose the spring.



### NOTE

This grass trimmer will hold approx. 4 meters of 2.5mm Nylon Trimming Line.

- 2.10 If you need to load grass trimmer line to the trimmer head, press down the two tabs on the grass trimmer head to release the outer ring.
- 2.11 Lift the base of the trimmer head away.
- 2.12 Remove the internal line spool taking care not to lose the spring.



- 2.13 Turn the internal line spool over and there will be an arrow indicating the direction in which the trimmer line is to be spooled on.
- 2.14 Find the middle of the trimmer line and hook over the cut out on the centre line of the spool.
- 2.15 Under tension, wind the line onto the spool in the direction the arrow indicates.





- 2.16 Leave 10cm of trimmer line loose.
- 2.17 Move the spool back to the main trimmer head and insert one end of the trimmer line through one of the eyelets on the trimmer head.
- 2.18 Insert the other end of the trimmer line through the other eyelet on the trimmer head.



- 2.19 Ensure the inner spool sits flush in the main trimmer body and reattach the outer ring.
- 2.20 If you have too much trimmer line showing, push down on the bump feed and wind it in the direction of the arrow to return some line back onto the spool.

## ATTACHING TRIMMER HEAD

- 2.21 Rotate the trimmer head until the hole in the splined drive flange lines up with the hole in the shaft head.
- 2.22 Insert the end of the torx wrench through the hole to lock the shaft in place and stop it rotating.
- 2.23 Using the box spanner provided, undo the main shaft nut remembering the left hand thread.





- 2.24 Remove the main shaft nut, bump washer and the domed washer.
- 2.25 Leave the splined drive flange in place.



- 2.26 Place the grass trimmer head and with the torx wrench still locking the shaft, tighten the grass trimmer head onto the shaft by hand. Remember the left hand thread.
- 2.27 Once sufficiently tight, remove the torx wrench.



- 2.28 To remove the grass trimmer head, line up the 2 holes on the drive flange and the shaft head.
- 2.29 Insert the torx wrench to lock the shaft.
- 2.30 Unscrew the grass trimmer head.

## BRUSH CUTTER HEAD



### NOTE

The grass trimmer/brush cutter uses a **LEFT HANDED THREAD**.  
To tighten turn anti-clockwise, to loosen turn clockwise.

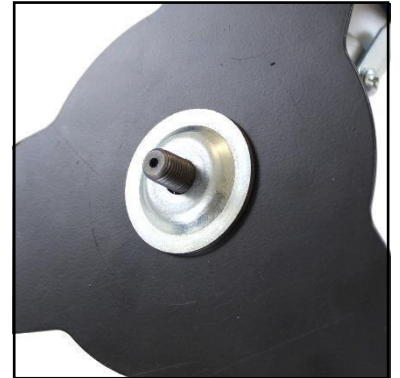
- 2.31 Rotate the trimmer head until the hole in the splined drive flange lines up with the hole in the shaft head.
- 2.32 Insert the end of the torx wrench through the hole to lock the shaft in place and stop it rotating.
- 2.33 Using the box spanner provided, undo the main shaft nut remembering the left hand thread.



- 2.34 Remove the main shaft nut, bump washer and the domed washer.
- 2.35 Leave the splined drive flange in place.



- 2.36 Place the brush cutter blade so the writing on the blade faces up towards the splined drive flange.
- 2.37 Ensure the raised register on the drive flange fits into the hole in the brush cutter blade.
- 2.38 Place the domed washer on to the shaft so the flat surface of the washer sits directly on to the brush cutter blade.



- 2.39 Placed the bump washer over the domed washer, onto the shaft as shown.
- 2.40 Line up the hole in the drive flange with the hole in the shaft head and lock in place by inserting the torx wrench through the hole, wind on the shaft nut by hand.
- 2.41 Using the box spanner provided, tighten the shaft nut up tightly.
- 2.42 Remove the torx wrench.



- 2.43 To remove the brush cutter blade, reverse the procedure.

## CONNECTING UPPER & LOWER SHAFTS

- 2.44 Remove the protective cover from the end of the lower shaft and align the upper and lower shaft.
- 2.45 Loosen the blue hand wheel and push in the silver ball locking mechanism on the lower shaft.
- 2.46 Insert the lower shaft into the upper shaft, keeping hold of the ball locking mechanism, until both shafts are connected.  
**NOTE** you may need to rotate the lower shaft from side to side to ensure it locks into the internal drive shaft.
- 2.47 Once connected, turn the lower shaft until the ball locking mechanism locates to the corresponding hold in the upper shaft and then tighten the blue hand wheel.





## HARNESS

- 2.48 Place your arms through the harness so that the belt clip is at the front and the large plastic leg protector and metal harness clip are against your right thigh.
- 2.49 Clip the harness at the front using the belt clip.
- 2.50 Attach the metal harness clip to the hook point on the trimmer shaft.
- 2.51 Adjust the bands of the harness so that the blade is parallel to the ground when standing in your normal working position.



## 5. FUEL & OIL



### WARNING

This machine is shipped without oil and fuel.

You **MUST** ensure all fluid levels are correct before operation otherwise you may cause serious engine damage that will not be covered by the warranty.



### WARNING

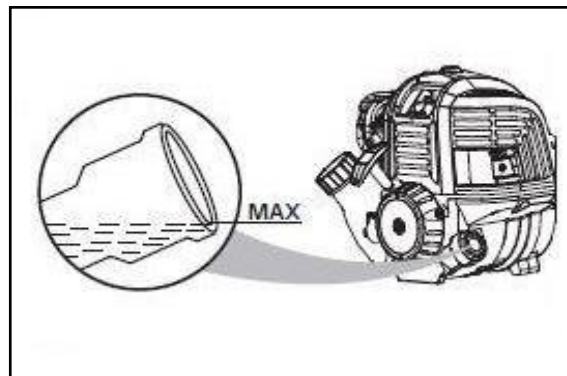
**ALWAYS** use a semi-synthetic 4 stroke SAE 15W40 engine oil and straight unleaded petrol.

**DO NOT** mix the fuel with the oil.

You **MUST** check the engine oil level before each use.

## OIL

- 3.0 To add engine oil, remove the attachment from the power unit and place of a flat, level surface.
- 3.1 Unscrew the oil filler cap.
- 3.2 Slowly pour 60ml of semi-synthetic 4 stroke SAE 15W40 engine oil into the crank case until it reaches the top of the oil fill hole.  
**DO NOT** overfill. Overfilling the crankcase may cause excessive smoke, oil loss and engine damage.
- 3.3 Replace the oil filler cap and tighten securely.



## FUEL



### WARNING

Petrol and its vapours are highly flammable and explosive. To prevent serious personal injury and property damage, handle it with care. Keep away from ignition sources and open flames, handle outdoors only in a well ventilated area.

**DO NOT** smoke and wipe up any spills immediately.

**ALWAYS** shut off the engine and allow to cool **BEFORE** fueling.

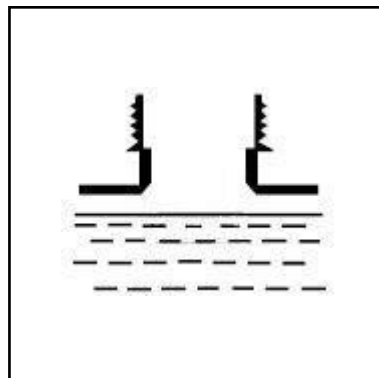
**NEVER** add fuel to a running or hot machine.

**ALWAYS** refuel in a well ventilated area, away from buildings or sources of ignition. Move at least 30 feet from the refuelling area before starting the machine.

**NEVER** operate the machine without the fuel cap.

Failure to safely handle fuel could result in serious personal injury.

- 3.4 Place the machine on a flat, level surface and remove the fuel filler cap.
- 3.5 Carefully pour petrol into the fuel tank.  
**NOTE:** This is a 4 stroke machine so **DO NOT** mix fuel with oil.
- 3.6 Leave a 25mm gap between the fuel and the top of the fuel tank.
- 3.7 Replace the fuel filler cap and tighten securely.
- 3.8 Wipe up any spills immediately.





## 6. STARTING PROCEDURE



### WARNING

This machine is shipped without oil and fuel.

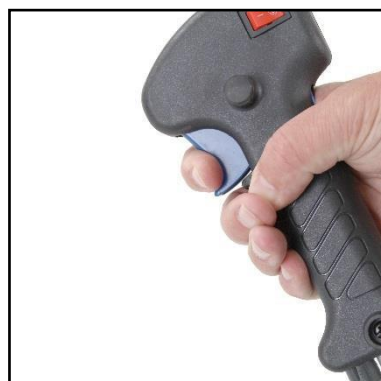
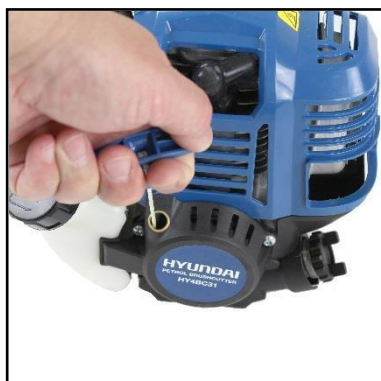
You **MUST** ensure all fluid levels are correct before operation otherwise you may cause serious engine damage that will not be covered by the warranty.

### FROM COLD

- 4.0 Place the machine on a flat level surface.
- 4.1 Turn the engine switch to the 'I' ON position.
- 4.2 Slowly press the primer bulb 5 to 10 times.  
**NOTE:** After the 7<sup>th</sup> press, fuel should be visible in the primer bulb.  
If it is not, continue to press the primer bulb until you see fuel in the bulb.
- 4.3 Push the choke button in, to set the choke to FULL CHOKE position.  
**NOTE:** DO NOT squeeze the throttle trigger because the choke will pop out and reset.



- 4.4 Pull the recoil starter handle until you feel resistance.  
Once you feel resistance, pull the recoil starter handle swiftly 3 to 5 times or until you hear the engine turn over or begin to start.
- 4.5 Allow the engine to run for 10 seconds then squeeze the throttle to release the choke in to the RUN position.



- 4.6 Allow the machine to warm up for 30 seconds before use.

## FROM WARM

- 4.7 Place the machine on flat level ground before starting.
- 4.8 Turn the ignition switch to the 'I' ON position.
- 4.9 Ensure the primer bulb has fuel inside.
- 4.10 Pull the recoil starter handle until you feel resistance.  
Once you feel resistance, pull the recoil starter handle swiftly 3 to 5 times or until the engine starts.



## 7. STOPPING PROCEDURE

- 5.0 Allow the engine to idle for 20 seconds under no load.
- 5.1 Turn the ignition switch to the 'STOP' position.
- 5.2 The machine should now stop.



## 8. USING THE MACHINE



### CAUTION

Engine housing can become hot during trimmer operation.

**DO NOT** rest or place your arm, hand or any body part against the engine housing during trimmer operation.

Extended contact with the engine housing can result in burns or other injuries.

**ALWAYS** position the unit on the operator's right side.

The use of the machine on the operator's left side will expose the user to hot surfaces and can result in possible burn injuries.

To avoid burns from hot surfaces, **NEVER** operate the machine with the bottom of the engine above waist level.



### 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.

In rain or stormy weather.



### 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 which may result in injury to yourself or others.

**NEVER** use the harness with any type of defect, especially with a defective quick release mechanism.

- 6.0 Always trim or cut with the engine running at high speed.
- 6.1 Do not run the machine slowly except for when warming up before use or cooling down after use.
- 6.2 Swing the cutting head of the cutter horizontally from left to right.
- 6.3 Keep the cutting deck parallel with the ground. **DO NOT** tilt the cutting blade head during operation.
- 6.4 Keep the cutting blade at the same level for even depth of cut.
- 6.5 The metal blade is to be used for brush only.
- 6.6 To prevent overheating **NEVER** over cut, instead cut off smaller lengths of brush.
- 6.7 If brush becomes tangled in the blade, you **MUST** stop the engine and remove the spark plug HT lead cap **BEFORE** attempting to remove the blockage.
- 6.8 **NEVER** raise the cutting blade above knee height during operation.
- 6.9 **DO NOT** use the machine on a slope or uneven ground or if there is the chance of slipping or losing stability.

- 6.10 **NEVER** over cut, instead cut short lengths then cut successively lower heights.
- 6.11 Trim around trees carefully, this will prevent damage to the tree and tree bark.
- 6.12 Move around the tree in a clockwise direction. Approach grass/weeds with the tip of the cutting blade.
- 6.13 Kickback is a sudden reaction to a pinched or snagged rotating blade.
- 6.14 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.
- 6.15 Kickback is a result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions.
- 6.16 Maintain a firm grip on the machine and position your body and arm to allow you to resist kickback forces.
- 6.17 **ALWAYS** use both hands on the handle bar for maximum control over kickback or torque reaction during start up.
- 6.18 The operator can control torque reactions or kickback forces, if proper precautions are taken.
- 6.19 **NEVER** place your hand near the rotating blade. The blade may kickback over your hand.
- 6.20 **DO NOT** position your body in the area where the power tool will move if kickback occurs.  
Kickback will propel the tool in the direction opposite to the blades movement at the point of snagging.
- 6.21 Use special care when working in corners.
- 6.22 Avoid bouncing and snagging the cutting head.

## 9. MAINTENANCE



### WARNING

Before cleaning, inspecting or repairing your unit, you **MUST** make sure that the engine has stopped and allowed to cool.  
You **MUST** disconnect the spark plug HT lead cap to prevent any accidental starting.



### CAUTION

**ALWAYS** refuel in a well-ventilated area with the engine off and the spark plug HT cap removed.

Whilst carrying out maintenance you **MUST** wear appropriate Personal Protective Equipment (PPE). Suggested PPE Sturdy footwear, work gloves, long trousers and hearing protection.



### NOTE

Spare parts – If a part needs replacement, you **MUST** only use parts that meet the manufacturer's part number specifications.

Replacement parts that **DO NOT** meet specifications may result in a safety hazard or poor operation of the generator and will **VOID** the warranty.

Major servicing including installation or replacement parts, should be made by a qualified service technician.

| Item               | Maintenance  | Every Usage                           | 1 <sup>st</sup> month or 20 hours | Every 3 months or 50 hours | Every 6 months or 100 hours | Every 12 month or 200 hours |
|--------------------|--------------|---------------------------------------|-----------------------------------|----------------------------|-----------------------------|-----------------------------|
| Engine Oil         | Check Level  | X                                     |                                   |                            |                             |                             |
|                    | Change       |                                       | X                                 |                            | X                           |                             |
| Air Filter         | Check        | X                                     |                                   |                            |                             |                             |
|                    | Clean        |                                       |                                   | X*                         |                             |                             |
| Spark Plug         | Check/Adjust |                                       |                                   |                            | X                           |                             |
|                    | Replace      |                                       |                                   |                            |                             | X                           |
| Valve Clearance    | Check/Adjust |                                       |                                   |                            |                             | X**                         |
| Combustion Chamber | Clean        | After every 300 hrs**                 |                                   |                            |                             |                             |
| Fuel Tank & Filter | Clean        |                                       |                                   |                            | X**                         |                             |
| Fuel Line          | Clean        | Every 2 years, replace if necessary** |                                   |                            |                             |                             |

\* More frequently in dusty environments.

\*\* Work to be carried out by a qualified engineer or your service dealer.

## AIR FILTER



### CAUTION

The engine **MUST NOT** be run without an air filter otherwise piston and/or cylinder damage can occur.

This type of damage will **NOT** be covered under warranty.

Maintaining the air filter is very important.

If dirt is allowed to get in to the engine through improperly installed, serviced or inadequate filter elements, it can damage and wear out the engine.

**ALWAYS** keep the filter element clean.

- 7.0 Press down on the latch tab on the top of the air filter housing and open the air filter cover.



- 7.1 Remove the air filter.
- 7.2 Clean the filter with a jet of dry compressed air until all dust and debris has been removed.  
**NOTE: DO NOT** allow any dirt or debris to enter the carburetor chamber as this could cause rapid engine wear.
- 7.3 Reinstall the air filter and close the air filter cover.



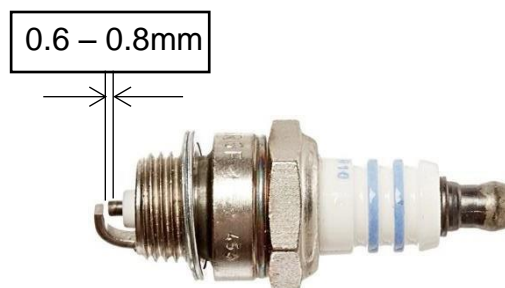


## SPARK PLUG

- 7.4 Carefully remove the spark plug HT lead cap.
- 7.5 Remove the spark plug using the box spanner provided in an anti-clockwise direction.



- 7.6 Check the spark plug for visible damage and electrode erosion. If damaged you **MUST** replace the spark plug.
- 7.7 Remove carbon deposits from the spark plug using a soft wire brush.
- 7.8 The spark plug gap should be 0.6 – 0.8mm. Check the gap using a feeler gauge and adjust as necessary by carefully bending the side electrode to achieve the correct gap.



- 7.9 Refit the cleaned and adjusted spark plug by hand to avoid cross-threading.
- 7.10 After spark plug seats then tighten as necessary but avoid over-tightening.
- 7.11 Re-attach the spark plug HT lead cap.







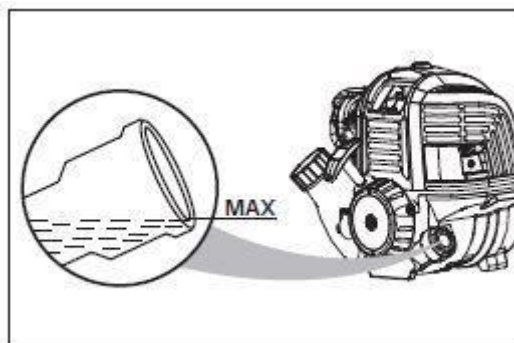
## CAUTION

**ALWAYS** use a semi-synthetic 4 stroke SAE 15W40 engine oil and straight unleaded petrol.

**DO NOT** mix the fuel with the oil.

You **MUST** check the engine oil level before each use.

- 7.12 To drain the engine oil, remove the oil filled cap and tilt the machine so the oil can drain out of the oil filler neck, into a suitable container.
- 7.13 To add engine oil, remove the attachment from the power head and place of a flat, level surface.
- 7.14 Unscrew the oil filler cap.
- 7.15 Slowly pour 60ml of semi-synthetic 4 stroke SAE 15W40 engine oil into the crank case until it reaches the top of the oil fill hole.  
**DO NOT** overfill. Overfilling the crankcase may cause excessive smoke, oil loss and engine damage.



- 7.16 If you do overfill, drain the oil in to a suitable container by pouring excess oil out through the oil filler cap.
- 7.17 Replace the oil filler cap and tighten securely.

## FUEL FILTER

- 7.18 Unscrew the fuel filler cap and drain all the fuel into a suitable and secure container.
- 7.19 Squeeze the end of the fuel filler cap tail to fully release the fuel filler cap.
- 7.20 Using a hook, gently hook the fuel line inside the fuel tank and slowly pull out the fuel filter.
- 7.21 If the fuel filter is damaged or severely clogged, replace immediately. Otherwise clean in fresh petrol and reinstall.



- 7.22 Reinstall the fuel filler cap and tighten securely.

## TRANSPORT

- 7.23 For transport, empty the fuel tank into a suitable secure container.
- 7.24 If the machine has been used, allow it to cool for at least 15 minutes before loading it in to the transport vehicle.
- 7.25 To prevent fuel spillage, the machine should be secured upright in its normal working position with the start switch in the **OFF** position.
- 7.26 If transporting over rough terrain, remove all the fuel from the fuel tank.
- 7.27 **DO NOT** drop or strike the machine when transporting.
- 7.28 **DO NOT** place heavy objects on top of the machine.

## 10. TROUBLESHOOTING



### CAUTION

All corrective actions should be carried out by suitable qualified person/s.

| Problem                                                    | Check                     | Status                | Cause                                       | Remedy                                                                               |
|------------------------------------------------------------|---------------------------|-----------------------|---------------------------------------------|--------------------------------------------------------------------------------------|
| Engine cranks<br>or<br>Starts hard<br>or<br>Does not Start | Fuel at carburetor        | No fuel at carburetor | Fuel filter blocked                         | Clean or replace                                                                     |
|                                                            |                           |                       | Fuel line blocked or clogged                | Clean or replace                                                                     |
|                                                            |                           |                       | Carburetor fault                            | Contact dealer                                                                       |
|                                                            | Fuel at cylinder          | No fuel at cylinder   | Carburetor fault                            | Contact dealer                                                                       |
|                                                            |                           | Exhaust wet with fuel | Fuel mixture too rich                       | Open choke.<br>Clean or replace air filter.<br>Adjust carburetor.<br>Contact dealer. |
|                                                            | Spark at end of Plug wire | No spark              | Stop switch OFF                             | Turn switch ON                                                                       |
|                                                            |                           |                       | Electrical problem                          | Contact dealer                                                                       |
|                                                            |                           |                       | Interlock switch                            | Contact dealer                                                                       |
|                                                            | Spark at plug             | No spark              | Spark gap incorrect                         | Adjust to 0.6 – 0.8mm                                                                |
|                                                            |                           |                       | Covered with carbon                         | Clean or replace                                                                     |
|                                                            |                           |                       | Fouled with fuel                            | Clean or replace                                                                     |
|                                                            |                           |                       | Defective plug                              | Replace plug                                                                         |
| Engine runs but does not accelerate properly               | Air filter                | Air filter dirty      | Normal wear                                 | Clean or replace                                                                     |
|                                                            | Fuel filter               | Fuel filter dirty     | Contaminants in fuel                        | Replace fuel                                                                         |
|                                                            | Fuel vent                 | Fuel vent blocked     | Clear vent                                  | Clear or replace                                                                     |
|                                                            | Spark plug                | Plug dirty or worn    | Normal wear                                 | Clean, adjust or replace                                                             |
|                                                            | Carburetor                | Improper adjustment   | Vibration                                   | Adjust                                                                               |
|                                                            | Cooling system            | Excessive heat        | Extended operation in dirty/dusty locations | Clean and let machine cooldown                                                       |
|                                                            | Spark arrestor screen     | Screen cracked        | Normal wear                                 | Replace                                                                              |
| Engine doesn't crank                                       | N/A                       | N/A                   | Internal engine problem                     | Contact dealer                                                                       |

## 11. STORAGE



### NOTE

If the machine is to be stored for winter, or a period of 30 days or more then it is important that you follow the instructions below.

Failure to do so can cause starting issues or other problems with the machine that may not be covered by the warranty.

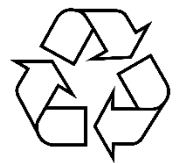
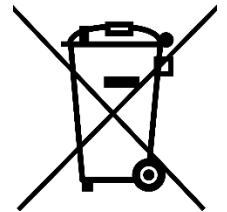
- 8.0 Drain the fuel from the fuel tank into a secure and suitable container.
- 8.1 Run the machine until it is out of any remaining fuel left in the fuel lines and allow the machine to cool down.
- 8.2 Change the engine oil as set out in section 7.12 to 7.17.
- 8.3 Remove the spark plug as set out in section 7.4 and 7.5.
- 8.4 Pour a teaspoon of fresh 15w40 engine oil into the cylinder bore.
- 8.5 With the engine switched off and the spark plug removed, place a lint free cloth over the cylinder bore and pull the recoil starter handle 3 to 4 times to evenly distribute the fresh oil over the cylinder bore wall.
- 8.6 Remove the lint free cloth and reinstall the spark plug as set out in section 7.9 to 7.11.
- 8.7 Clean the exterior of the machine with a damp cloth to remove dirt and debris.  
**DO NOT** soak the machine with water or use a hose pipe.  
**DO NOT** use any cleaning chemicals as this could damage external parts of the machine.
- 8.8 Lubricate moving parts with a light silicone spray grease or similar.
- 8.9 Visually inspect the machine and replace any broken parts.
- 8.10 Store in a cool, dry place, away from any sources of ignition.
- 8.11 **DO NOT** stack items on top of the machine.

## 12. SPECIFICATION

|                                  |                          |
|----------------------------------|--------------------------|
| Model Number                     | HY4BC31                  |
| Engine Type                      | 4 stroke, Air cooled     |
| Engine Displacement              | 31cc                     |
| Engine Power                     | 0.8kW                    |
| Engine Max Speed at Rated Power  | 7000rpm                  |
| Fuel Tank Capacity               | 280ml                    |
| Engine Oil Type                  | Semi-Synthetic SAE 15W40 |
| Engine Oil Capacity              | 60ml                     |
| Cutting Diameter – Brush Cutter  | 255mm                    |
| Cutting Diameter – Grass Trimmer | 450mm                    |
| Grass Trimmer Line Diameter      | 2.5mm                    |
| Noise Level                      | 104dB                    |
| Net Weight                       | 4.8Kg                    |

## 13. RECYCLING & PRODUCT DISPOSAL

- 9.0 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.
- 9.1 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 circumstances must any fuel or oil be put down any drains.
- 9.2 Certain products contain WEEE waste which should not be disposed of in your domestic waste.
- 9.3 You **MUST** recycle WEEE in accordance with your local authority or recycling centre.
- 9.4 Certain products contain batteries which should not be disposed of in your domestic waste.
- 9.5 You **MUST** recycle batteries in accordance with your local authority or recycling centre.
- 9.6 Unwanted packaging and materials should be stored and taken to a recycling centre so it can be disposed of in a manner which is compatible with the environment.
- 9.7 The following symbol means that you should 'Reduce – Reuse – Recycle'.
- 9.8 We are a Member of the VALPAK National Compliance Scheme and our registration number is **RM08660**
- 9.9 For further information about disposal please contact your Local Authority.
- 9.10 You can also get more advice and guidance about recycling at the following website <http://www.recycle-more.co.uk>
- 9.11 Should you pass this product on to 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 this machine safely.



## 14. DECLARATION OF CONFORMITY

Genpower Ltd confirms that this Hyundai petrol pressure washer conforms to the following CE directives:

2006/42/EC Machinery Directive  
2004/108/EC EMC Directive  
2000/14/EC Noise Emissions Directive  
97/68/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 (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 the use outdoors.

Equipment Category: **Garden Machinery**  
Product Name/Model: **HY4BC31**  
Type/Serial No: **Petrol Brush Cutter**  
Net installed power: **31cc**  
The technical documentation is kept by: **Roland Llewellyn, 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 SüV Product Service GmbH  
Zertifizierstelle, Riddlerstraße, 65  
80339 MÜNCHEN, Germany.  
Certification n° M8A 13 07 84794001**

Measured Sound Power Level: **104dB**

Guaranteed Sound Power Level: **104dB**

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

Place of Declaration: **Pembroke Dock, SA73 4RW**

Date: **07/03/2018**

Signed by: **Roland Llewellyn**



Position in Company: **Managing Director**

Name and address of manufacturer or Authorised representative:

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



## 15. CONTACT DETAILS

|      |                 |                                                                                            |
|------|-----------------|--------------------------------------------------------------------------------------------|
| 10.0 | POSTAL ADDRESS  | Genpower Ltd, Isaac Way,<br>London Road, Pembroke Dock,<br>Pembrokeshire.<br>SA72 4RW. UK. |
| 10.1 | TELEPHONE       | +44 (0) 1646 687880                                                                        |
| 10.2 | FAX             | +44 (0) 0164 686198                                                                        |
| 10.3 | TECHNICAL EMAIL | aftersales@genpower.co.uk                                                                  |
| 10.4 | WEBSITE         | www.hyundaipowerequipment.co.uk                                                            |

## 16. WARRANTY

To register your machine for the manufacturer's warranty, please visit

<https://www.hyundaipowerequipment.co.uk/warranty>

## 17. MANUAL UPDATES

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





# **HYUNDAI**

**POWER PRODUCTS**

**For Inquiries, Please Contact:**

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[www.hyundaipowerequipment.co.uk](http://www.hyundaipowerequipment.co.uk)