

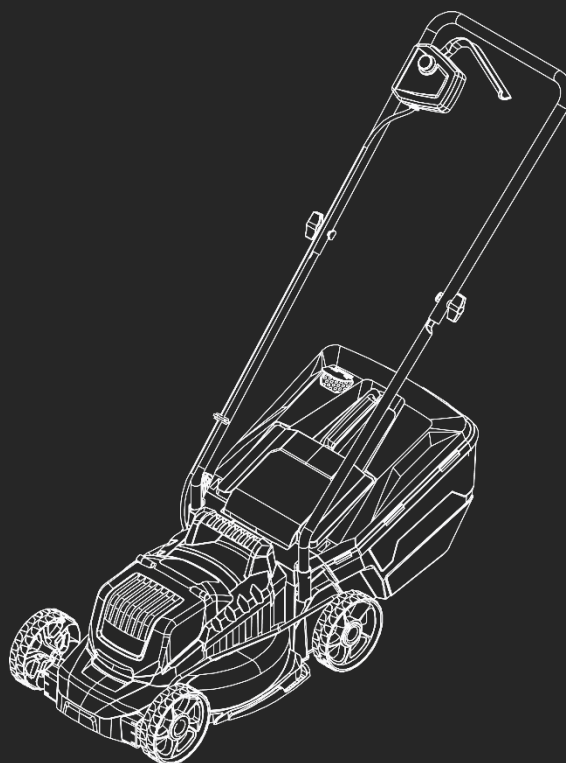
HYUNDAI
POWER PRODUCTS

20V Lawn Mower HY2193

Instruction Manual



GENUINE PRODUCT OF
HYUNDAI CORPORATION



WARNING: Read the instructions carefully before use.

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Introduction

Thank You For Purchasing Your HYUNDAI Product

We work very hard to give all of our customers the best possible service. If you have any problems, before leaving negative feedback, please contact us to give us a chance to resolve the issue. We would be delighted if you left us positive feedback! Thank you for purchasing this product.

Important!



WARNING: READ THE INSTRUCTION BOOKLET THOROUGHLY BEFORE USING THE MACHINE. Keep for future reference and pass it on if the machine is loaned or sold to another user.

This manual has been produced by Hyundai Power Products and should be kept with the product. Please read and understand these instructions before you use your product. Failure to do this may result in personal injury or damage to the product.

The safety precautions and warnings are to ensure your safety and protect you from harm or damage to the product.

The information contained in this manual was accurate at the time of production, however HYUNDAI Power Products may make modifications to the product without notification.

Safety Information

Understand Your Machine

- **WARNING!** You must read these instructions carefully before operating the machine. Make sure that you are familiar with the controls and properly operate the machine. You must learn how to stop the machine quickly. If you do not follow the warnings and instructions, it may result in fire and/or serious injury. Make sure to save all warnings and instructions for future reference.
- Read this manual and labels affixed to the machine to understand its limitations and potential hazards.
- Be thoroughly familiar with the controls and their proper operation. Know how to stop the machine and disengage the controls quickly.
- If the unit is to be used by someone other than original purchaser, or is to be loaned, rented, or sold, always provide this manual and any needed safety training before operation. The user can prevent and is responsible for accidents or injuries that may occur to themselves, to other people, or to property.
- Do not force the machine beyond its limits. Use the correct machine for your application.
- Know how to stop the machine quickly in case of emergency. Understand the use of all controls.

Personal Safety

- **ALL MAINTENANCE** other than that listed in this manual, should be carried out by professionally trained and certified personnel.
- **WARNING!** Never allow children or people unfamiliar with these instructions to use the product. Local regulations can restrict the minimum age of the operator.
- Keep children, pets, and other people not using the unit away from the work area. Be alert and shut off the unit if anyone enters work area. Keep children under the watchful care of a responsible adult.
- Stay alert, watch what you are doing and use common sense when operating the machine. Never operate the machine when unwell or tired, or if you have taken alcohol, medicine, drugs or any substances which may slow your reflexes and compromise judgment. A moment of inattention while operating the machine may result in serious personal injury.
- Appropriate Personal Protective Equipment (PPE), **MUST** be worn at all times when operating or repairing the machine. Always wear anti-slip and resistant work footwear and long trousers while using the machine. Do not use the machine when barefoot, wearing sandals or similar lightweight footwear. Do not wear chains, bracelets or clothing that is loose fitting or hanging ties or cords. Tie long hair back. Always wear protective earplugs. Loose clothes, jewellery, or long hair can be caught in moving parts. Protect eyes, face, and head from objects that may be thrown from the unit. Always wear safety goggles or safety glasses with side shields when operating.

Safety Information

Personal Safety (Continued)

- Always keep hands and feet away from all moving parts during operation. Moving parts can cut or crush body parts.
- Always keep hands and feet away from all pinch points.
- Do not touch parts that might be hot from operation. Allow parts to cool before attempting to maintain, adjust, or service.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the machine in unexpected situations. Extending your body too far can result in a loss of balance and you may fall which will result in injury.
- Never place any part of your body where it would be in danger if movement should occur during assembly, installation, and operation, maintenance, repairing or moving.
- Start the machine carefully according to instructions and with feet away from the moving parts.
- Do not place your hands or feet near or under rotating parts. Keep away from any discharge openings.
- Keep in mind that the operator or user is responsible for accidents, hazards or unexpected events involving the machine that occur to other people or their property. It is the responsibility of the user to assess the potential risk of the area where work is being carried out. The operator or user must take all necessary precautions to ensure their own safety and that of others, especially on slopes or rough, slippery and unstable ground.
- Always keep a safe distance from the rotary blade, given by the length of the handle.

Inspect Your Machine

- Check your machine before starting it. Keep guards in place and in working order. Make sure all nuts, bolts, etc., are securely tightened.
- You must check the general condition of the machine before use.
- Never operate the machine when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it.
- Do not use the machine if the machine's switch does not turn off when running.

Safety Information

Work Area

- Make sure you thoroughly inspect the entire work area and remove all objects and anything that could be thrown by the machine or could damage the machine (branches, stones, wire, toys, etc.). Attempting to clear the work area whilst using the machine will reduce your concentration and creates a trip hazard. Any liquid spilled on the floor may result in you slipping.
- You must only work in daylight or with good artificial light in good visibility conditions. Keep people, children and animals away from the working area. Distractions can cause you to lose control.
- Operate on flat, level ground.
- Use the unit in dry conditions only. Protect it from rain and moisture. If there has been heavy rain on the working site, wait until the ground has dried up.
- Never park the machine in a place with unstable ground which could give way.
- You must pay special attention when approaching obstacles that could compromise visibility.
- When mowing on slopes, you must mow across the slope and not up and down it. When changing direction, you need to be careful that the wheels do not hit any obstacles (such as roots, branches, stones, etc.) that can cause the lawnmower to slide sideways or make you lose control of it. Make sure on slopes you have a steady foothold.
- The lawnmower must never be used on slopes of over 20°, regardless of the mowing direction.
- You must be careful near ravines, ditches or embankments.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- Find and locate all fixed objects in the ground, such as sprinkler systems, poles, water valves, bases for washing lines etc. Make sure that you check for hidden electrical cables or similar on the surface of the lawn. ALWAYS run the machine around these objects. NEVER intentionally run the machine over foreign objects.
- Pay the utmost attention when working on frozen ground as the machine may tend to skid.
- Do not work in the rain or when there is a thunderstorm or lightning risk. If there is bad weather conditions, do not use the machine.
- Never run over gravel while the motor is running. There is a risk of being hit by stones.
- Switch the lawnmower off before tilting or transporting it, e.g. from/to lawn or over paths

Safety Information

During Use

- Always hold the unit with both hands when operating. Keep a firm grip on the handlebars.
- Be aware that the machine may unexpectedly bounce upward or jump forward if the machine should strike buried obstacles such as large rocks or roots. Maintain a safe distance as provided by the handle frame.
- Walk, never run with the machine.
- Use extreme caution when in reverse or pulling the machine towards you.
- Do not operate the machine in confined areas where there may be a risk of crushing the operator between the machine and another object.
- Be very careful when pulling the machine toward you. You must look behind you to make sure there are no obstacles before and during operations in reverse gear (if applicable).
- Do not allow the machine to pull you along, you must walk and never run.
- Before leaving the machine to clear blockages, check, clean or after striking foreign object, stop the machine and make sure that the blades have come to a complete stop.
- **WARNING!** If something breaks or an accident happens whilst working, you must turn off the machine immediately and move the machine away to prevent further damage. If an accident happens with injuries or third parties are injured, carry out the first aid measures most suitable for the situation immediately and contact the medical authorities for any necessary health care. Carefully remove any debris that might cause damage or harm persons or animals should it not be seen.
- Do not switch on the motor until your feet are at a safe distance from the blade. Be careful and do not reach into the rotating blade.
- Ensure that you have a firm footing and mow slowly. Be particularly careful when changing direction. There is a risk of tripping!
- The excessive speed of movement or the absence of maintenance have a significant influence on noise emissions and vibrations. It is necessary to take preventive steps to eliminate possible damage due to high levels of noise and stress from vibration. You must maintain the machine well, wear ear protection and take breaks from working.
- Never open the discharge flap while the motor is running.
- Do not tilt the lawnmower when switching on the motor. If the lawnmower is running, do not lift or transport.
- If the attachments/tools are not installed in their seats, do not use the machine.
- You must remove the safety key and the battery (making sure that all moving parts are stationary):
 - Whenever you remove or attach the grass collector.
 - Before adjusting the cutting height.
 - After striking a foreign object, you must inspect the machine for damage and make repairs before using it again.
 - Before checking or working on the machine.
 - Before clearing blockages or unclogging the discharge chute.
 - When lifting or transporting the machine.
 - Whenever you leave the machine unattended.
 - If the unit starts vibrating excessively.
 - After emptying the grass catcher, carefully re-attach it and ensure that the grass catcher is attached securely to the lawnmower.
- Do not switch on the unit if there are persons (particularly children) or animals in the immediate vicinity. Ensure that children do not play with the unit. Stop working if you notice that persons (particularly children) or pets are nearby. When stopping work, never leave the unit unattended and keep it in a safe place.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch invites accidents

Safety Information

Vibrations (Where Applicable)

- 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.
- 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;
- Wear gloves and keep your hands warm.
- Take regular breaks.
- 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.

Noise (Where Applicable)

- The operating noise of the machine can damage your hearing. When wearing 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 ear protection because your ability to hear alarm warnings will be reduced.
- 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.



- See Certificate of Conformity section for Outdoor Noise declaration of conformity.

Residual Risks

Even when tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the tool's construction and design:

1. Damage to lungs if an effective dust mask is not worn.
2. Damage to hearing if effective hearing protection is not worn.

Health defects resulting from vibration emission if the power tool is being used over longer period of time or not adequately managed and properly maintained.

▲ WARNING! This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.

Safety Information

Battery Use & Care

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

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.

Should you come in to contact with electrolyte you should;

- Remove all clothing contaminated with electrolyte. If you cannot remove then saturate them in water.
- Get medical assistance as soon as possible.

You must advise the medical staff of the type of acid. This machine contains LiFePO4 batteries with lip6 electrolyte.

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



Battery Charger

- Do not place any objects on the battery charger and do not place the battery charger on soft surfaces. There is a risk of explosion.
- If other batteries are used, e.g. imitations, reconditioned batteries or third-party products, there's risk of injury as well as damage caused by explosion
- A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack. This may cause an internal short-circuit and the battery to burn, smoke, explode or overheat.

Electricity (Where Applicable)

DANGER : ELECTRICITY CAN KILL – NEVER WORK ON LIVE / ENERGISED EQUIPMENT.



- Prior to carrying out any maintenance work you MUST identify electrical isolation methods and isolate all electrical supplies.
- Prior to use and with all electrical supplies isolated, you MUST check all electrical cables, plugs and connectors for the following;
 - Are intact and have no signs of damage, to include but not limited to bare wires, chaffing, cuts and loose wiring.
 - 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.
 - All trailing cables should be routed so as not to cause any kind of trip hazard.
 - NEVER work on or near electricity with wet hands, wet clothing and wet gloves.

Safety Information

Electricity (Continued)

- Power tools plug must match the outlet. Never modify the plug in any way. DO NOT use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- DO NOT expose this power tool to rain or wet conditions. Water entering a power tool will increase the risk of electric shock. DO NOT abuse the power cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil and sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock. When operating a power tool, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- **IMPORTANT:** Make sure that the electric circuit is fused, and that the power, voltage and frequency of the motor is supported by your mains supply. Also, make sure that your power supply is earthed. Connect your machine to earth. Never open the ON/OFF switchbox. However, if it should become necessary to do so, contact a qualified electrician. Make sure that you will never touch live contacts, specifically when you plug or unplug your machine. This machine and its power cord must never get into contact with water.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- To prevent electric shock, use only with an extension cord suitable for outdoor use. For additional protection, the installation of a residual current device (RCD) having a rated residual operating current not exceeding 30mA is advisable.
- Before use, check that the extension cord is in good condition. When using an extension cord, make sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.
- Do not allow any part of the machine to make contact with water while it is in operation. If the appliance becomes wet while turned off, wipe dry before starting. Do not touch the appliance or its plug with wet hands or while standing in water. Wearing rubber boots offers some protection.
- Before use, check the supply and extension cord for signs of damage or aging. If the cord becomes damaged during use, disconnect the cord from the supply immediately. If the supply cord is damaged, it must be replaced by the manufacturer or a qualified person in order to avoid a hazard.

Double-Insulated Appliances

In a double-insulated appliance, two systems of insulation are provided instead of grounding. No grounding means that it is already provided on a double-insulated appliance. Servicing a double-insulated appliance requires extreme care and knowledge of the system, and should be performed only by qualified service personnel. Replacement parts for a double-insulated appliance must be identical to the parts they replace.

Safety Information

Personal Protective Equipment

Appropriate Personal Protective Equipment (PPE), MUST be worn at all times when operating or repairing the machine. No protective equipment can ensure 100% protection.

When selecting PPE, make sure it's CE marked and it suits the user in terms of size, fit, etc. If more than one item of PPE is worn at the same time, make sure they can be used together, e.g. wearing safety glasses may disturb the seal of a respirator, causing air leaks.



Hand Protection Must Be Worn

Protective electrically non-conductive gloves are highly recommended when working.



Foot Protection Must Be Worn

Non-skid heavy duty footwear are highly recommended when working.



Hearing Protection Must Be Worn

Suitable safety hearing protection is recommended.



Eye Protection Must Be Worn

Always wear safety glasses/goggles and/or face shields. Everyday eyeglasses have only impact resistant lenses; they are not safety glasses/goggles.



Protective Clothing Must Be Worn

Do not wear loose clothing, gloves, scarfs, neckties or jewellery (rings, wrist watches), which can be caught in moving parts.



Head Protection Must Be Worn

Wear a safety helmet with a safety visor.




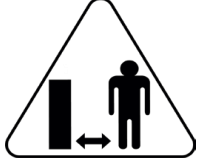





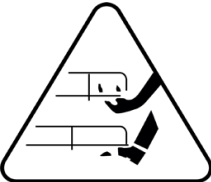



Face Shield Must Be Worn

Wear a face shield to protect your face.

Safety Information

⚠ Symbols On The Machine

We have provided safety messages in this manual and on the machine. This information alerts you to potential hazards that could hurt you or others. Please read these messages carefully. However, we may not have listed all of the possible hazards, you must also use your own judgement.

Symbol	Description	Symbol	Description
	Safety alert – Indicates a precaution, a warning or a danger.		Keep away from the danger area.
	Read operator's manual.		Keep all bystanders and animals at least 15 metres away from the machine during operation. If approached, stop the machine immediately.
	Hand protection must be worn		Do not expose the product to rain or wet conditions.
	Sharp blades can cut limbs.		Keep hands and feet away from cutting parts.
	This product complies with the European directives and an evaluation method of conformity for these directives was done.		Remove the safety key before carrying out any work on the unit and before leaving the unit.
	This product should not be disposed of in domestic waste. Please contact your local recycling centre for disposal service.		

Safety Information

Intended Use

The HY2193 is a battery powered lawnmower from HYUNDAI. The HY2193 has a cutting width of 330mm and is powered by a 20V 2.0Ah Lithium-ion battery.

The HY2193 is a garden tool and precisely a pedestrian controlled lawnmower. The machine is essentially composed of a battery which drives a blade enclosed in a casing, equipped with wheels and a handle. The operator is able to operate the machine and use the main controls, always staying behind the handle at a safe distance from the rotating blade.

If the operator leaves the machine, the battery and cutting means will stop within a few seconds.

The lawnmower is manufactured according to the latest safety requirements. These include a blade brake that stops the machine and blade when you let go of the OPC lever. Every precaution is only effective when it is followed exactly.

Intended Use

This machine was designed and manufactured for cutting and collecting grass in gardens and grassy areas, in areas in proportion to its cutting capacity, controlled by a pedestrian operator. The presence of attachments or specific devices can prevent cut grass from being collected or produce a mulching effect, depositing cut grass on the ground.

User Types

This machine is intended for use by consumers, i.e. non professional operators. The machine is intended for "DIY" and domestic use only.

This garden tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the machine by a person responsible for their safety. Never allow children or people unfamiliar with these instructions to use the garden tool. Supervise children. This will ensure that children do not play with the unit.

Any other use is not as intended. Improper use is not covered by the warranty and the manufacturer will reject any liability. The user is liable for all injuries to third parties and damage to their property. Operate the unit only in the technical condition as stipulated and delivered by the manufacturer. Arbitrary changes to the unit will exclude the manufacturer from any liability for resulting injury and/or damage.

Improper Use

Any other usage not in keeping with the above mentioned ones may be hazardous and harm persons and/or damage things. Examples of improper use may include, but are not limited to:

- transporting people, children or animals on the machine
- letting yourself be transported by the machine
- using the machine to tow or push loads
- using the machine for leaf or debris collection
- using the machine to trim hedges, or cutting anything other than grass
- use of the machine by more than one person
- using the blade on surfaces other than grass

Unboxing

⚠ WARNING : Unboxing and assembling the machine should be done on a flat, surface with enough room. Disposal of the packaging should be done in accordance with the local regulations in force.

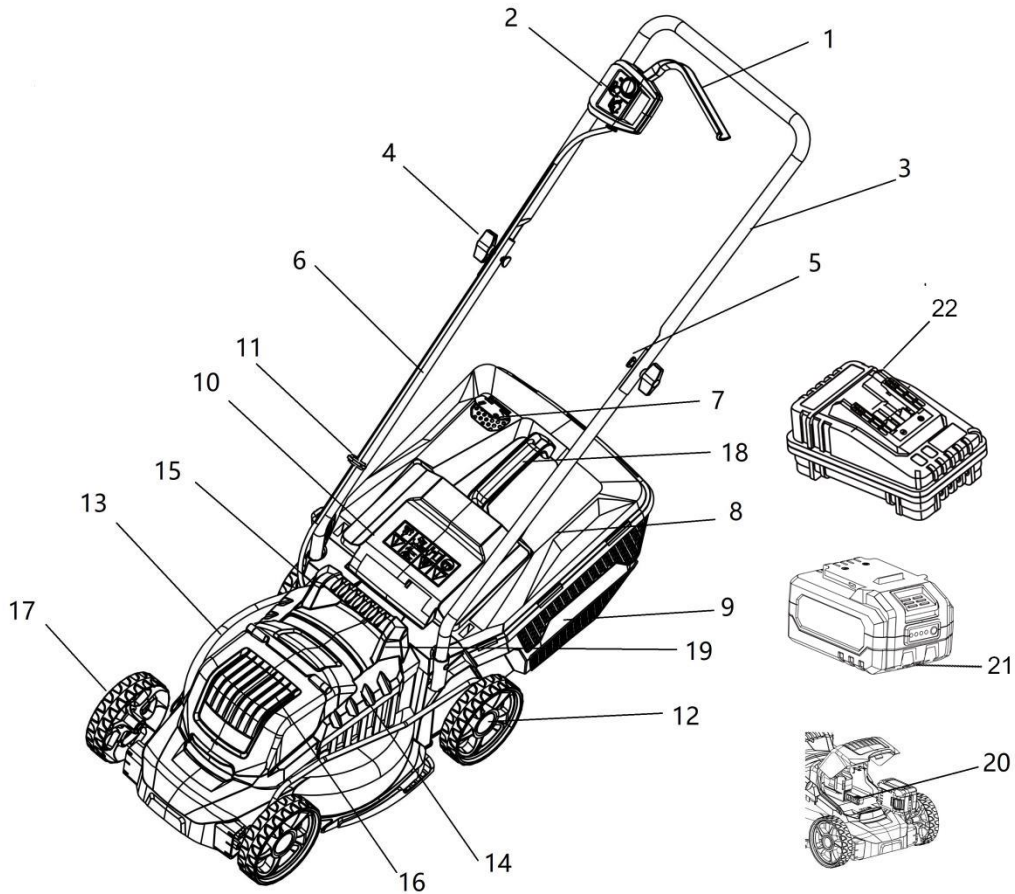
⚠ WARNING : Some of the packaging material may be harmful to children. Keep out of reach of children.

1. Carefully remove the product from the packaging and examine it for any sign of damage caused during shipping.
2. Lay the contents out and check them. If any part is damaged or missing, you must not use the machine. Contact HYUNDAI POWER PRODUCTS immediately.
3. You must keep the packaging material in case the machine needs to be returned or repaired.
4. Ensure that you have all the accessories and tools you need for assembly and operation including the suitable personal protective equipment.

We recommend that you fill out the information in the 'Product Record' section. If you need to contact an authorised dealer or customer service, you may need to provide this information.

Unboxing

*Not To Scale



- | | |
|-----------------------------------|--|
| 1. Start/Stop Trigger | 12. Rear Wheel |
| 2. Safety Start Button | 13. Mower Deck |
| 3. Upper Handle | 14. Motor Cover |
| 4. Wing Nut | 15. Cutting Height Adjustment
Lever |
| 5. Mounting Bolt | 16. Battery Cover |
| 6. Lower Handle | 17. Front Wheel |
| 7. Grass Indicator | 18. Grass Collection Box Handle |
| 8. Grass Collection Box Top Cover | 19. Main Body Handle |
| 9. Grass Collection Box Main Body | 20. Safety Key |
| 10. Rear Outlet Guard | 21. Battery Pack |
| 11. Wire Tidy | 22. Charger |

Assembly

HY2193 Assembly – Safety

⚠ CAUTION - This guide is meant to serve as a quick reference for operating your HYUNDAI machine. We always advise reading the manual in full before operation.

⚠ NOTE - Images may vary depending on model.

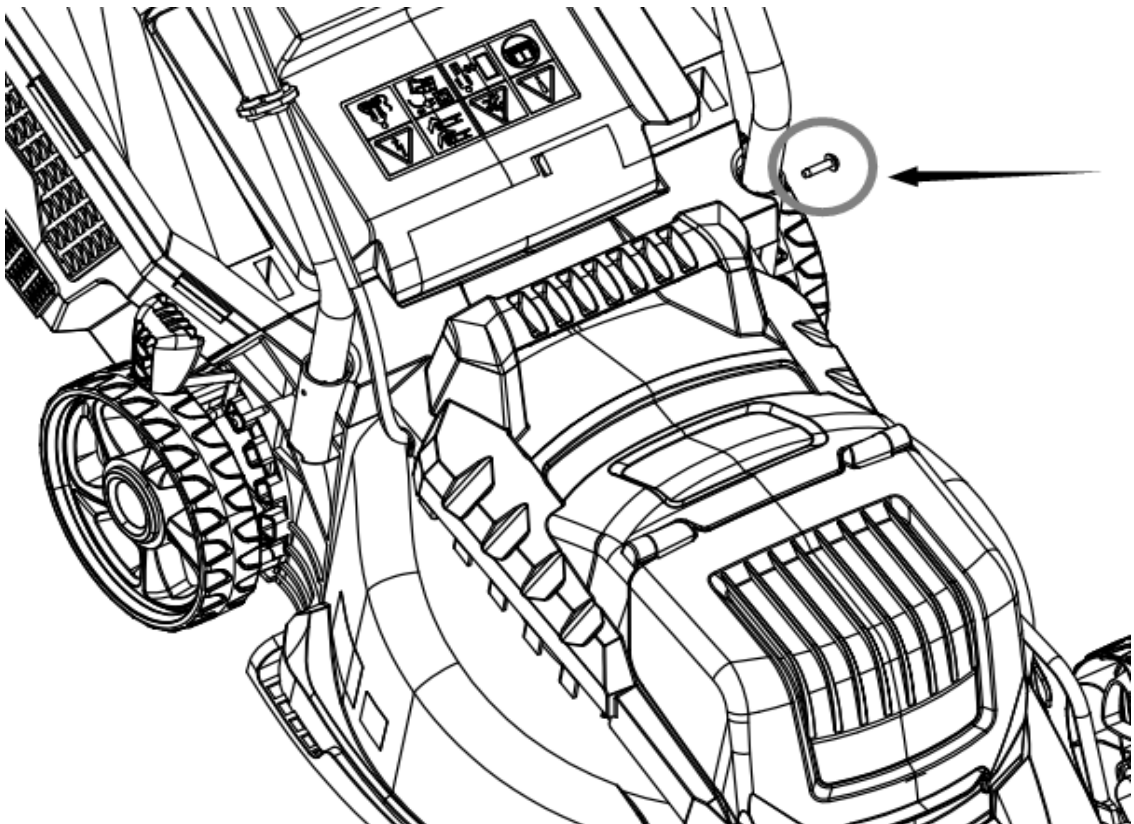
⚠ WARNING - Before assembly remove the safety key to avoid accidental starting

HY2193 Assembly – Lower Handle Bar

Place the Mower Deck (13) on level ground for assembly

Insert the Lower Handle (6) into the relevant holes at the rear of the mower deck as shown below

Insert and secure a screw into the hole of the Mower Deck, through the Lower Handles.



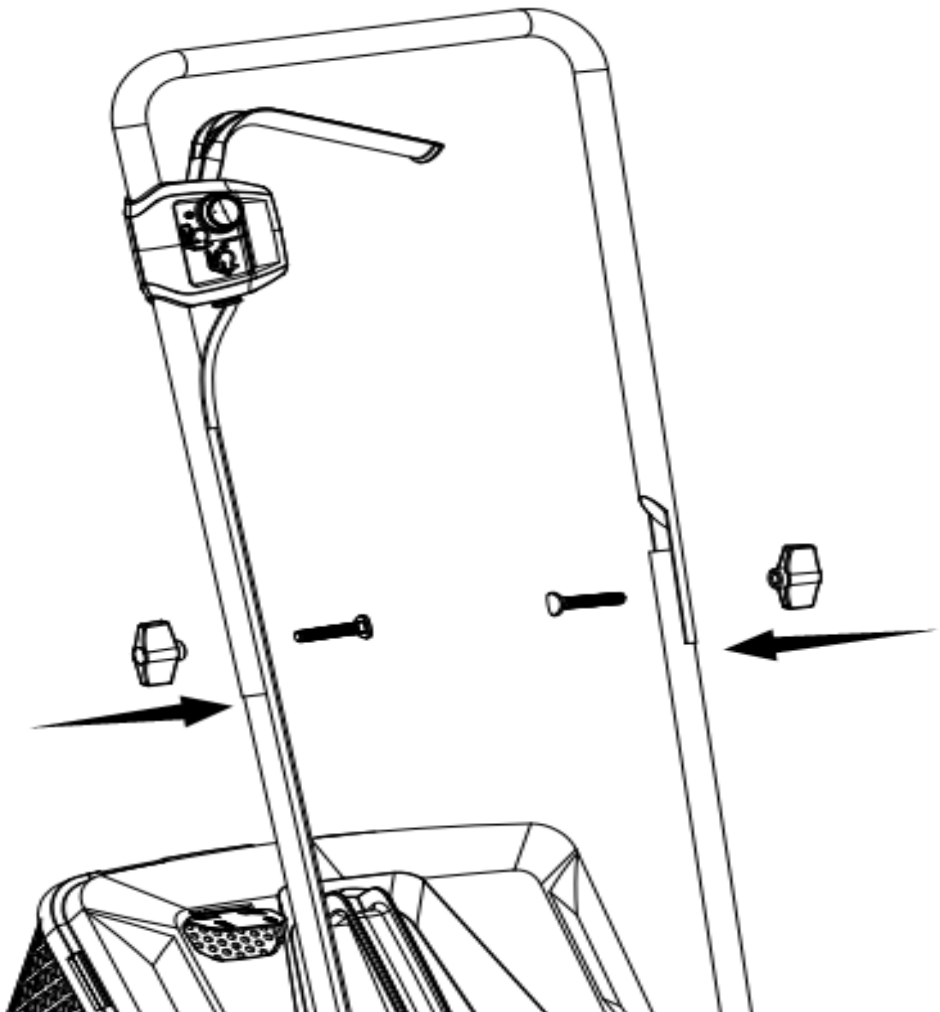
Assembly

HY2193 Assembly – Upper Handle Bar

Line up the holes on the Upper Handle (3) with the corresponding ones on the Lower Handle (6).

Place a Mounting Bolt (5) through each of the holes and Secure with a Wing Nut (4)

Repeat on both sides and ensure it's tight and the Upper Handle supports itself.



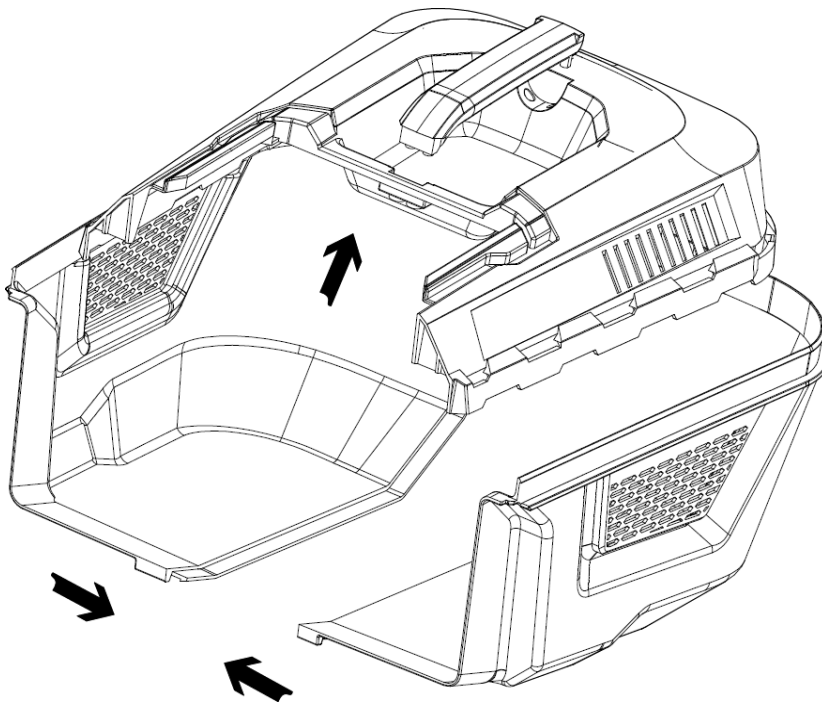
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HY2193 Assembly – Grass Collection Box

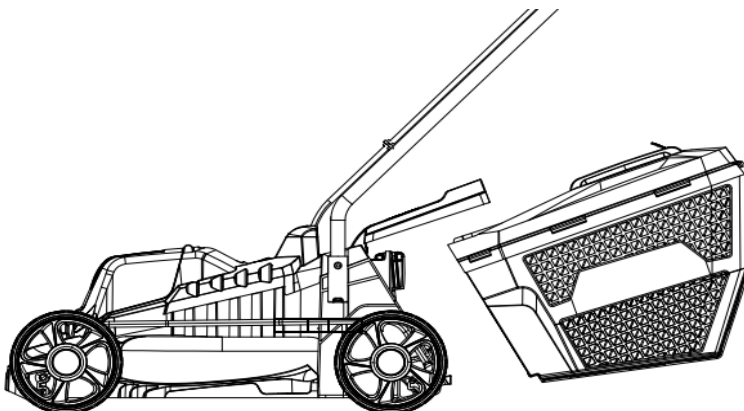
The Grass Collection Box comes in 3 pieces.

Clip together the 2 halves of the Grass Collection Box Main Body (9)

Then secure the Grass Collection Box Top Cover (8) to Grass Collection Box Main Body as shown below.



The Assembled Collection Box hooks on to the back of the machine. Lift the Rear Grass Flap (10) and hook the Grass Collection Box into place.



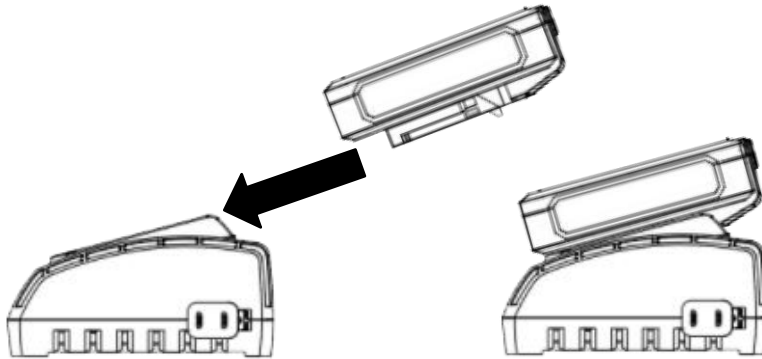
Assembly

HY2193 Battery Charging

⚠ Ensure the power source switch is OFF when plugging in Battery Charger

1. Slide the **Battery** into the **Battery Charger**, by lining up the terminals on both. It will be secured with an affirmative *click!*

NOTE – To remove the battery, press the **Battery Release Button** whilst pulling away from the **Battery Charger**.



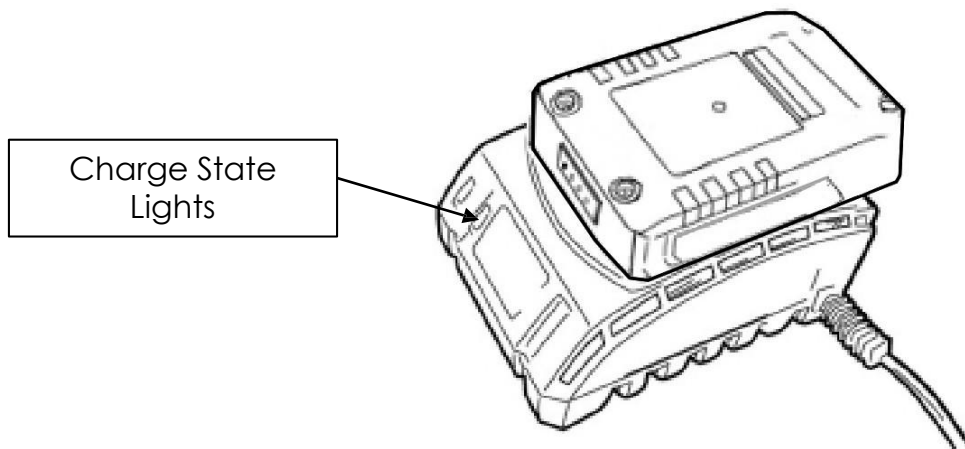
2. Plug in the **Battery Charger**, then turn on the power source.
3. The Charge State Lights will indicate the following:

Solid Green & Flashing Red: Charging

Solid Green & Solid Red: Fully charged

Flashing Green: Thermal protection activated, this is when the battery is either too hot or too cold to be charged. The charger will commence charging when the battery has reached the correct temperature.

Flashing Red: Defective battery or charger

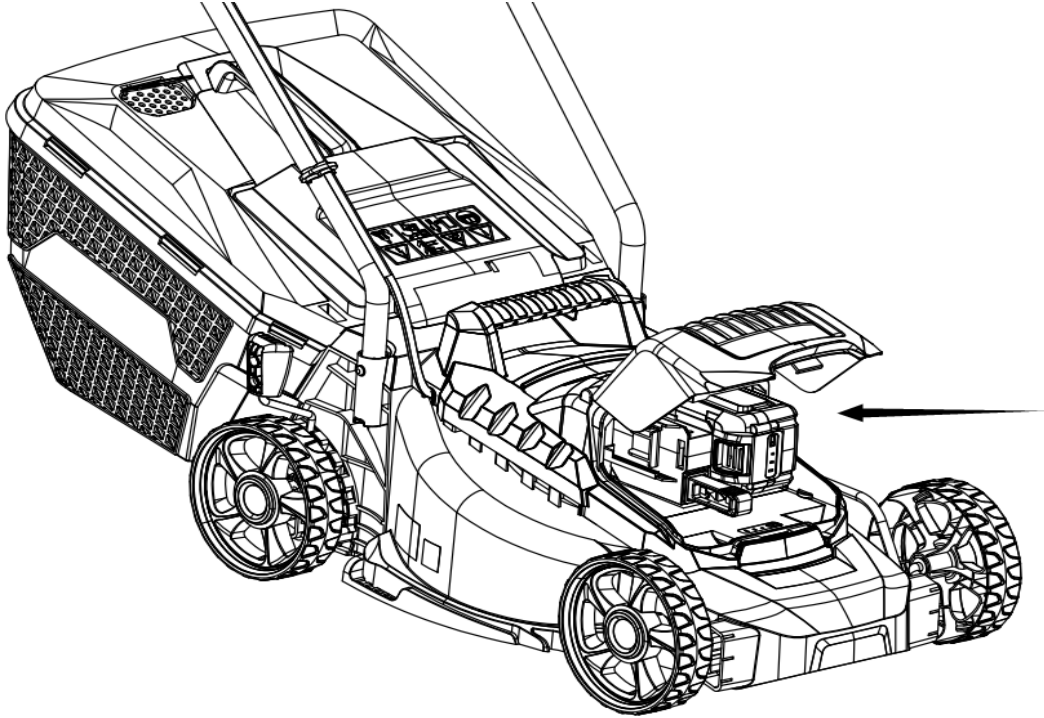


Assembly

HY2193 Battery

Simply lift the Battery Cover (16) to reveal the battery cradle.

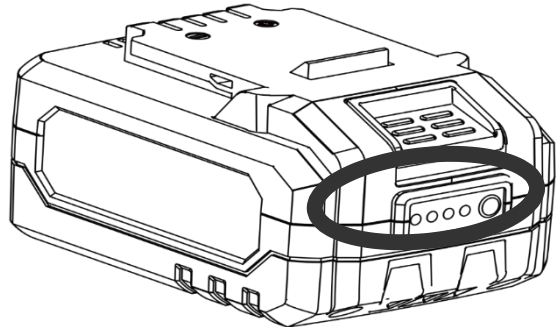
The Battery Pack (21) is keyed, and can't be incorrectly put into the cradle. Insert the Battery Pack into the cradle until secure. Give the battery a gently pull to ensure it's seated correctly.



HY2193 Battery Charge Status

The unit has an LED state of charge indicator on the handlebar and on the battery itself..

- 4 LED lights lit = 100% battery power
- 3 LED lights lit = 75% battery power
- 2 LED lights lit = 50% battery power
- 1 LED light lit = 25% battery power



Operation

HY2193 Safety Key

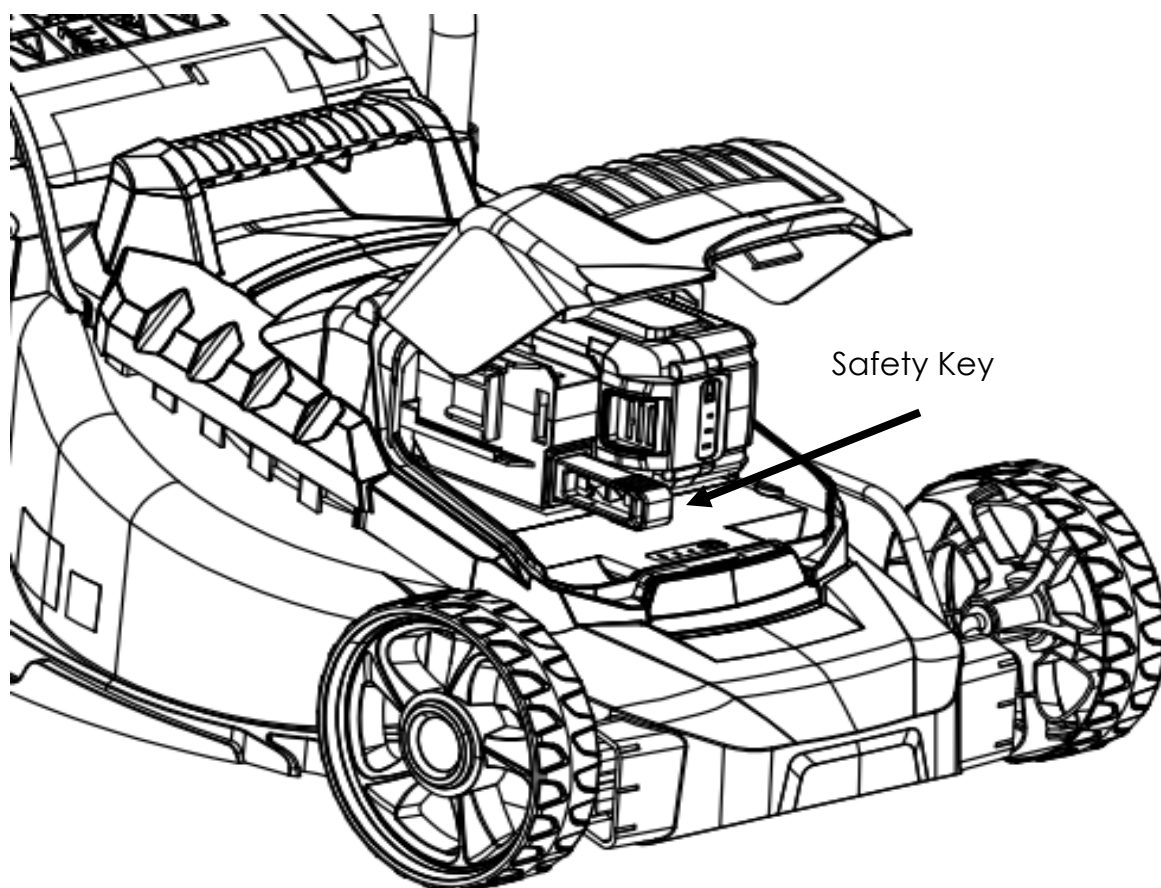
⚠ WARNING - Before Operation you **MUST** read and fully understand the whole user manual

The lawnmower has a safety key. The key is located under the battery cover. By removing the key, the power supply to the motor is interrupted.

You must remove the safety key:

- If the unit is left unattended.
- Before checking, cleaning or performing other work on the unit.
- Before removing blockages.
- If a foreign object is hit. Check the lawnmower for damage, and have any damage repaired by a qualified technician or service center if the unit starts vibrating excessively.

The key simply slides in and out of its slot.



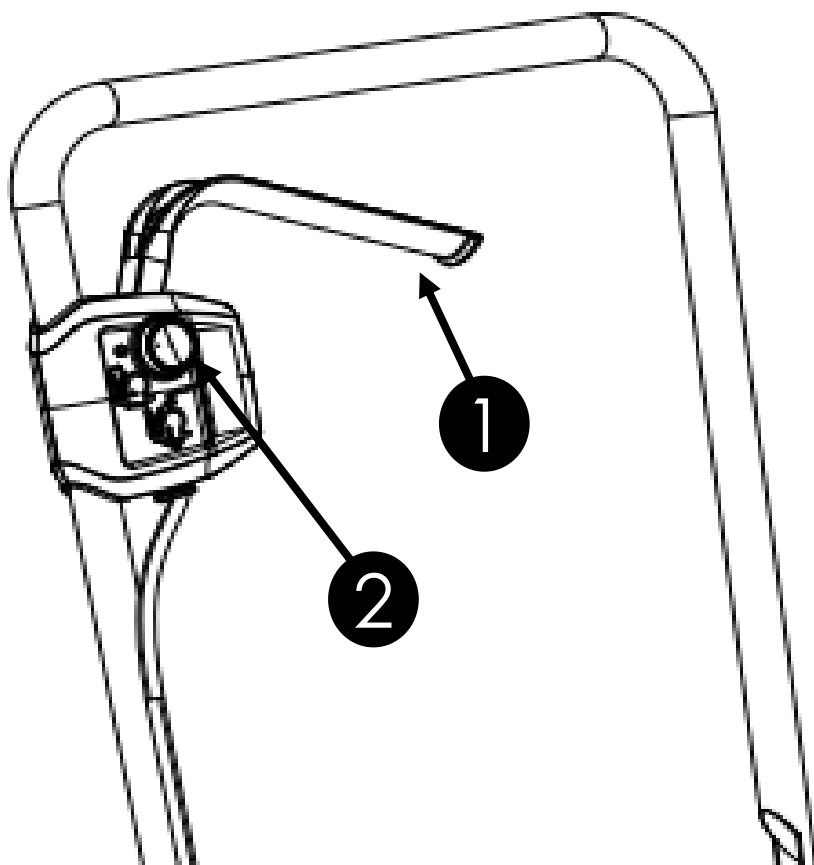
Operation

HY2193 Starting

⚠ WARNING - Before Operation you **MUST** read and fully understand the whole user manual

⚠ WARNING – Before Starting ensure the Battery and Safety Key are both inserted.

1. To Start the Machine hold the Safety Start Button (2) down.
2. At the same time, pull the Start/Stop Trigger (1). The should start.
3. When the machine has started, you can release the Safety Start Button.



HY2193 Stopping

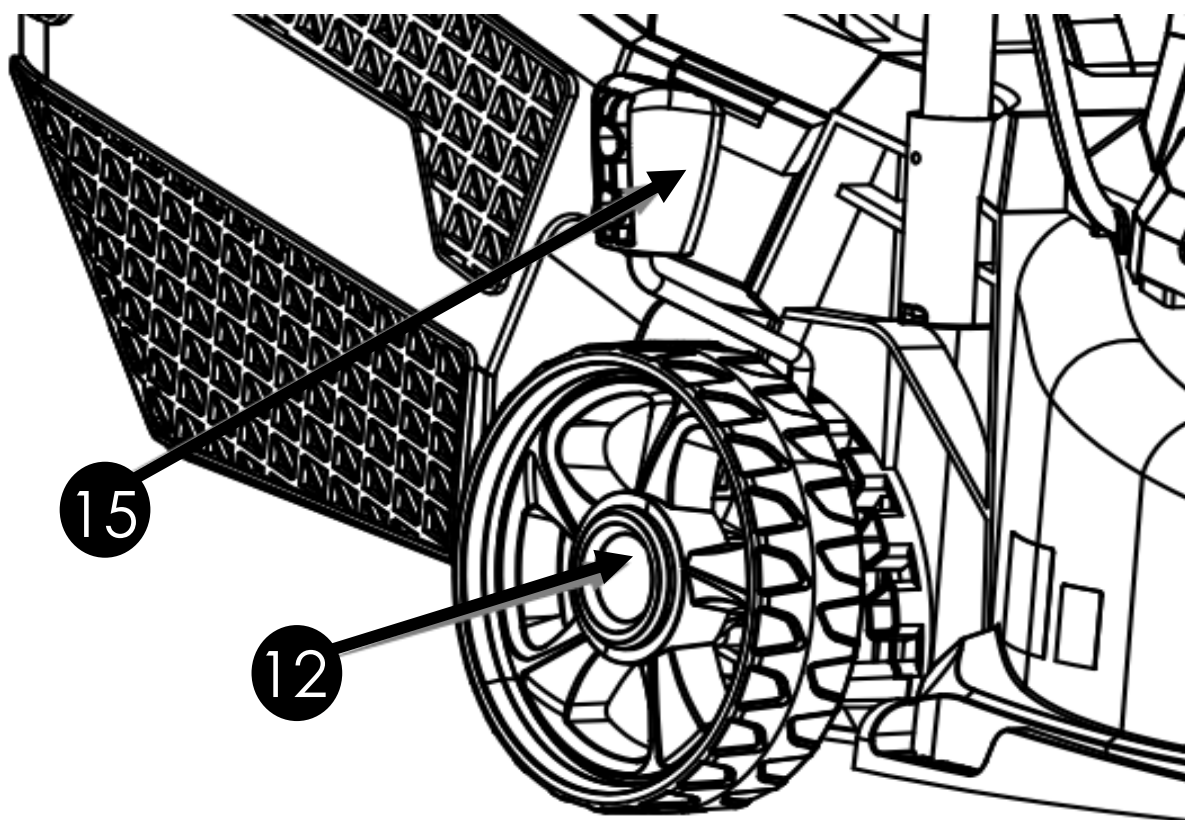
To Stop the machine release the Start/Stop Trigger. The machine should stop.

⚠ WARNING – After stopping the machine, for a few seconds the blade beneath the machine will keep rotating. Allowing time for this to stop before any other Operation or Maintenance

HY2193 Cutting Height Adjustment

⚠ WARNING – When adjusting the cutting height, ALWAYS ensure the machine is off and the cutting blade is not spinning

1. To adjust the cutting height, pull the Cutting Height Adjustment Lever (15) away from the machine.
2. Then place the Lever into 1 of the 5 slots available. The cutting heights are between 30-75mm.
3. The Rear Wheel (12) moves when adjusted, the cutting heights are higher when the Lever is toward the front of the machine.



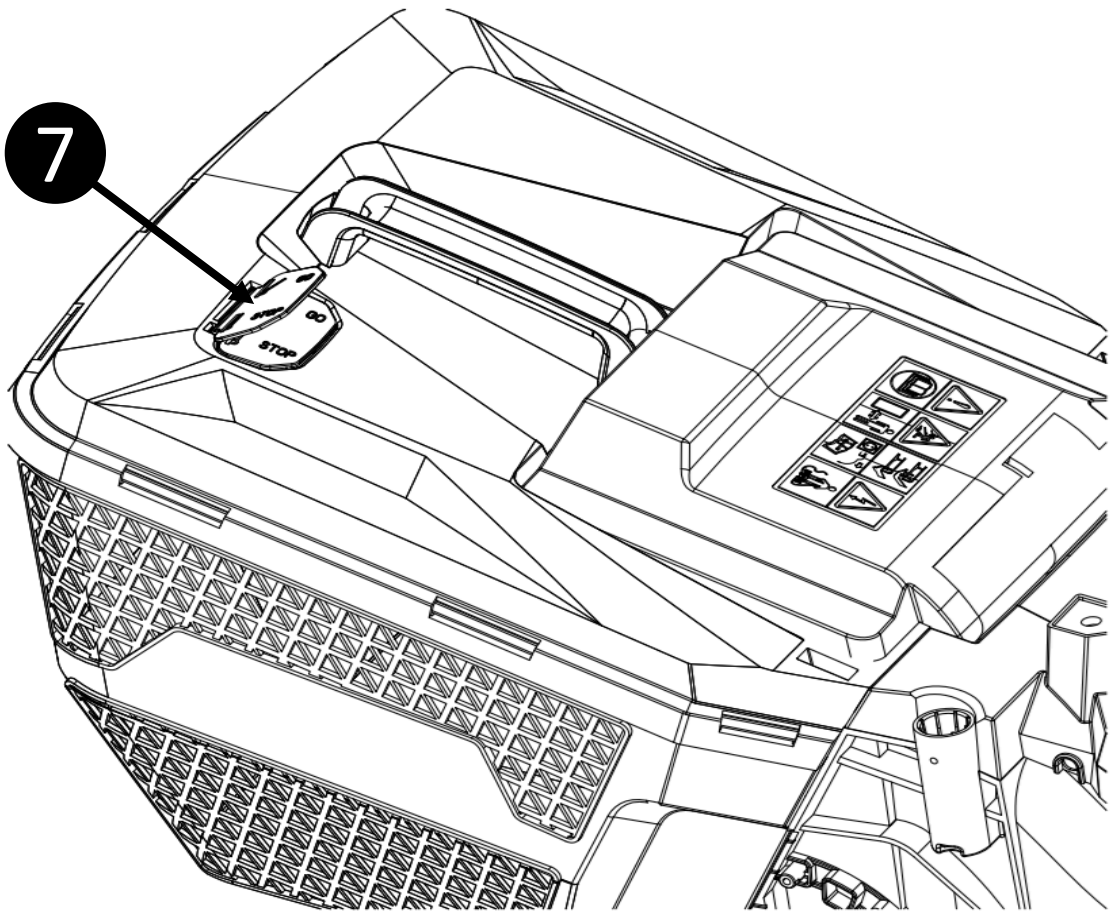
Operation

HY2193 Grass Indicator

The Grass Collection Box has a Grass Indicator (7). This allows the user to know at a glance if the Collection Box needs emptying.

If the Grass Indicator (7) is open allowing air through it (as shown below) it isn't yet full.

If it is closed, this indicated the Grass Collection Box needs to be emptied



HY2193 Grass Collection Box Emptying

Empty the grass collector frequently during use. Do not wait until it is completely full. We recommend emptying it when it is half full.

1. Switch the motor off.
2. Wait until the blade stops.
3. Lift the Rear Outlet Guard guard.
4. Remove the Grass Collection Box.
5. Lower the Rear Outlet Guard down again.
6. Empty the grass collector.
7. Before re-fitting, remove any obstructions from the rear discharge chute.

General Tips

- Maintain a constant cutting height. Do not shorten the grass to less than half its original height.
- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort, prevent overloading of the motor and leaving clumps of grass clippings.
- It may also be necessary to reduce ground speed and/or push the lawnmower over the area a second time. For extremely heavy cutting, reduce the width of cut by overlapping the previously cut path and mow slowly.

How Often Should I Mow?

Spring (March, April & May)

Mow once a week on a high to medium height setting.

Summer (June, July & August)

Mow twice a week under good growing conditions on a low setting. In dry conditions, mow once a week on a medium to high height setting.

Autumn (September, October & November)

Mow once a week on a medium height setting.

Winter (December, January & February)

Mow as required on a high height setting.

What is Mulching ?

Mulching is the intelligent way to keep your lawn healthy. This is when the grass clippings are cut into fine pieces which then fall back into the soil. These fine pieces are rich in nutrients and act as a natural fertilizer. This will keep your lawn healthy.

You can achieve a mulching affect with this machine, by removing the grass collection box, and closing the rear outlet. With the outlet closed, the grass will be mulched by the blade.

Maintenance & Care

General Maintenance

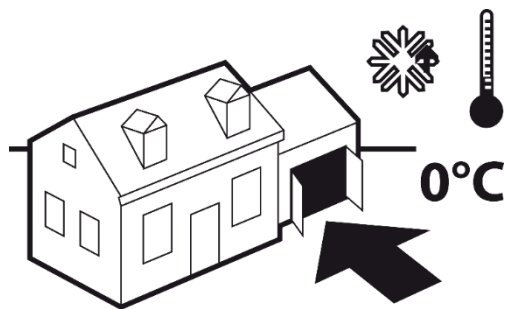
⚠ WARNING : Turn OFF the machine, allow all moving parts to come to a complete stop, and disconnect the power cord before maintaining the machine. You need to wear proper clothing and protective gloves whenever your hands are at risk.

- Keep all nuts, bolts and screws tight to be sure the machine is in a safe working condition.
- Replace worn or damaged parts for safety. Only use manufacturer-recommended parts and accessories.
- Lubricate the Wheel every 100 hours
- Periodically check the wires around the machines for damage and loose connections.
- Always check the brakes of the machines are working correctly
- Regularly examine the batteries, ensure they are clean and dry.
- Always Charge your batteries to full charge before use

Storage

⚠ Keep the machine stored in a dry, level area away from damp, moisture and rain fall. Allow the machine to cool down before storing.

- Make sure the machine is clean and dry before storing.
- Ensure the machine is stored in a position, where any persons cannot step on, to attempt to reach items up high, due to risk of movement.
- DO NOT store the machine near an ignition source, such as a wood stove, gas or electric heater, or an appliance or heater with a pilot light.
- Store the machine out of reach of children or anyone who is not familiar with operation.
- DO NOT stack other items on top of the machine when in storage.
- Make sure the machine is stored away from direct sunlight. Store indoors or in a safe, frost-free area during severe weather and winter months.



POWER SPARES



No Hassle Returns



Same Day Dispatch*



Over 10,000 Spare Parts



QR Code – Scan the QR code for a direct link to our website

Our Website : power-spares.co.uk

Call us : 01646 404406

Email us : sales@power-spares.co.uk

To maintain your machine in peak operating condition, proper maintenance and care are crucial. Some machines have consumable parts that will need replacement to ensure they continue operating at their full potential. Power-Spares provide manufacturer parts for all your machines, ensuring they remain in peak condition.

About Power Spares

Power-Spares has your back if you damage your lawn mower blade, find your spark plugs not sparking, or snap your recoil. Power-Spares operates under the trading name of Genpower Limited.

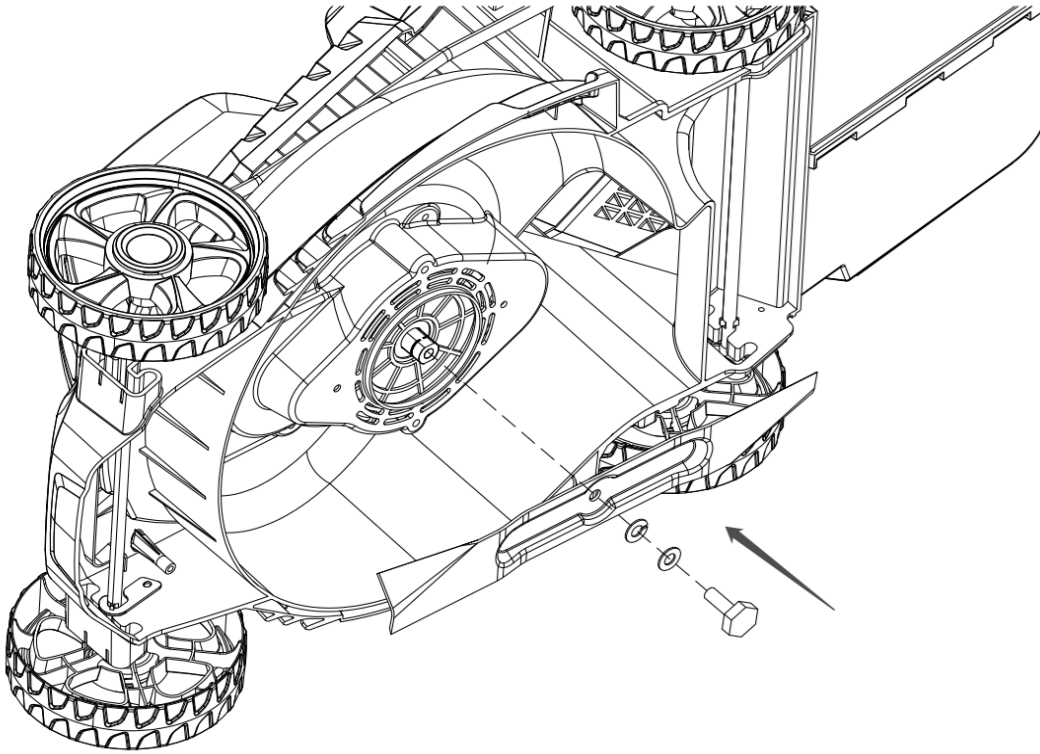
As part of the Genpower family, Power-Spares offers you the expertise, efficiency, and quality assurance of a large organisation. We leverage the latest warehousing, distribution, customer service, and inventory management technology to ensure you receive your parts as quickly as possible.

With extensive stock-holding of spare parts in our UK warehouses, Power-Spares is ready to assist you promptly when your machine needs repair. We're Committed to help you get back up and running as quickly as possible.

Maintenance & Care

Blade Maintenance

! WARNING - To prevent injury from the blade, have a specialist perform all work such as replacing or sharpening the blade (special tools and skills required).



Only use original spare parts: The use of non-original and/or incorrectly fitted parts will jeopardize the safety of the machine, may cause accidents or personal injuries for which the Manufacturer is under no circumstance liable or responsible.

Cleaning

! WARNING – Only Damp Clothes/Sponges should be used to clean. Using Running Water or Liquid Detergents can cause damage and unsafe operation.

1. Clean the equipment immediately after use with a damp cloth and some soft, non-abrasive soap. Do not use cleaning agents or harsh solvents; these may damage the plastic parts in the equipment. Ensure that no water penetrates the equipment's interior.
2. Remove grass and mud from inside the deck to prevent it from drying. This could cause problems the next time the lawnmower is used.
3. Keep all safety devices, air vents and the motor housing free of dirt and dust as much as possible.
4. Dry the machine completely. Keep the handles dry, clean and free of oil and grease.
5. Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage

Maintenance & Care

Troubleshooting

Fault	Possible Cause	Remedy
Motor does not start	<ol style="list-style-type: none"> 1. Capacitor defective 2. Battery pack empty 3. Cable defective 4. Switch/plug block defective 5. Motor terminals or capacitor disconnected 6. Mower standing in high grass 7. Mower housing is clogged 8. Safety key is not inserted 9. Battery is not correctly inserted 	<ol style="list-style-type: none"> 1. Contact an authorised service centre 2. Charge the battery pack 3. Check the cable 4. Contact an authorised service centre 5. Contact an authorized service centre 6. Start motor on shorter grass or previously mowed area; change cutting height if necessary 7. Clean housing so that the blade can run freely 8. Insert safety key 9. Remove the battery and reinsert
Motor performance drops	<ol style="list-style-type: none"> 1. Grass too tall or damp 2. Mower housing is clogged 3. Blades badly worn 4. Battery performance decreasing 	<ol style="list-style-type: none"> 1. Correct the cutting height 2. Clean housing 3. Replace blades 4. Check the battery performance and charge the battery if necessary
Unclean cuts	<ol style="list-style-type: none"> 1. Blades worn 2. Wrong cutting height 	<ol style="list-style-type: none"> 1. Replace or re-sharpen the blade; contact an authorized service centre 2. Correct the cutting height

Technical Data

Machine Specification

Model	HY2193
Nominal Voltage	20V
Battery Type	4.0Ah Lithium-ion
Cutting Height	28-62mm (5 Heights)
Grass Collector Capacity	30L
Motor Speed	3400/min
Cutting Width	330mm / 33cm
Wheel Size	140mm
Measured Sound Power	89.5dB(A)
Guaranteed Sound Power	95dB(A)
Vibration Level	$\leq 2.5 \text{ m/s}^2$, $k=1.5\text{m/s}^2$
Weight	8.28kg

Technical Data

Spare Parts

Drawing Number	Spare Part Name	Quantity
1	Switch box upper cover	1
2	Switch box button	1
3	Switch box button spring	1
4	AC switch	1
5	Switch trigger	1
6	Switch trigger spring	1
7	Switch box lower cover	1
8	Upper handle	1
9	Switch box fixed cover	1
10	Screw ST4.2*19	2
11	Screw ST4.2*16	19
12	Plate	2
13	Power line	1
14	Wing nut	2
15	Bolt M6*40	2
16	Grass indicator	1
17	Grass bag cover handle	1
18	Lower handle (right)	1
19	Grass bag (right)	1
20	Rear cover	1
21	Lower handle (left)	1
22	Grass bag cover	1
23	Grass bag (left)	1
24	Wire clip	1
25	Cover handle	1
26	Rear cover spring	1
27	Battery pack spring	1
28	Battery compartments	1
29	Screw with washer ST4.2*16	2
30	Screw ST4.2*9.5	11

Technical Data

Spare Part (Continued)

Drawing Number	Spare Part Name	Quantity
31	Battery pack	2
32	Battery pack lower guide slot	1
33	Key	1
34	Anti-lost rope	1
35	Key holder	1
36	Battery carrier socket	1
37	Battery pack upper guide slot	1
38	upper cover	1
39	Battery transparent cover	1
40	Wheel cover	4
41	Clip $\phi 8$	4
42	Wheel 140mm	4
43	Bolt M5	2
44	Height adjustment lever	1
45	Nut M5	2
46	Screw M4*12	4
47	Nut M4	4
48	Deck	1
49	Block	2
50	Screw with washer ST4.2*13	1
51	Screw ST4.8*35	3
52	Bolt M8*20	1
53	Spring washer $\phi 8$	1
54	Washer $\phi 8$	5
55	Blade 32cm	1
56	Screw ST4.8*18	2
57	Gearbox lower cover	1
58	Bearing 609ZZ	1
59	Gear (big)	1
60	Screw M4*12	4

Technical Data

Spare Part (Continued)

Drawing Number	Spare Part Name	Quantity
61	Gear (small)	1
62	Bearing 6002RS	1
63	Gearbox upper cover	1
64	Brushless motor	1
65	Rear wheel axle assy	1
66	Height adjustment spring	1
67	Height adjustment link bar	1
68	Height adjustment handle	1
69	Screw ST4.8*10	2
70	Wheel axle plate	4
71	Front wheel axle assy	1
72	Shaft washer $\phi 8$	1
73	Controller	1
74	Washer $\phi 6$	2
75	Controller frame	1
76	Blow molding pot assy	1
77	Screw with washer ST4.8*19	2
78	Blade fixed holder (Anti-reverse direction)	1
79	Wheel decorative ring	12
80	Plug	2

Recycling & Disposal

Recycling & Disposal

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.

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.
- Certain products contain WEEE waste which should not be disposed of in your domestic waste.
- You **MUST** recycle WEEE in accordance with your local authority or recycling centre.
- Certain products contain batteries which should not be disposed of in your domestic waste.
- You **MUST** recycle batteries in accordance with your local authority or recycling centre.
- 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.

We are a Member of the VALPAK National Compliance Scheme and our registration number is RM08660. For further information about disposal please contact your Local Authority.

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

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.

Environmental Protection

1. Environmental protection should be a priority of considerable importance when using the machine, for the benefit of both social coexistence and the environment in which we live. Try not to cause any disturbance to the surrounding area.
2. You must comply with local regulations and provisions for the disposal of packaging, oils, fuel, filters, damaged parts or any elements which have a strong impact on the environment. This waste must not be disposed of as normal waste. It needs to be separated and taken to specified waste disposal centres where the material will be recycled.
3. You must comply with local regulations for the disposal of waste materials after mowing.
4. When disposing, do not pollute the environment with the machine, but hand it over to a disposal centre, in accordance with the local laws in force.

EU Declaration Of Conformity

Importer and Authorised Representative

Genpower Ltd
Isaac Way, Pembroke Dock, SA72 4RW

Country of Origin: China

Description: Battery Powered Lawn Mower

SKU Code: HY2193

Date of Issue: 01/02/2023

Regulations and Directives of Compliance

- 2006/42/EC The Machinery Directive
- 2014/30/EU Annex II Electromagnetic Compatibility Directive
- 2011/65/EU RoHS
- 2000/14/EC Noise Emissions in the Environment by Equipment for use Outdoors

Conforming to the Following Requirements and Documents

- EN 60335-2-77:2010
- EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019
- Declaration for 2000/14/EC Noise Emissions in the Environment by Equipment for use Outdoors.

Statement of Declaration

We the importer and authorised representative of the product described confirm conformity within the provisions of applicable regulations and directives listed within this document.

Signed on Behalf of Genpower Ltd

Place of Issue: Genpower Ltd

Signatory Name: Roland Llewellyn

Position: Managing Director

R J Llewellyn

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Useful Information

Check Out Our YouTube Channel

Our videos on YouTube include:

- Unboxing
- Assembly of your machine
- How to service your machine
- Products in use
- 'How To' videos
- Product features

Go to YouTube and search '**Hyundai Power Products**'.

Warranty

Proof of purchase will be required before you make a warranty claim. Full warranty terms and conditions can be found on the HYUNDAI POWER PRODUCTS website:
www.hyundaipowerproducts.co.uk

Manual Updates

Our manuals are constantly being reviewed and updated. Should you find an error, omission or something unclear, please contact us for assistance. We reserve the right to make any modifications without prior notice whenever necessary. Our latest manuals are also placed online. All our manuals can be downloaded at:
www.hyundaipowerproducts.co.uk

Returning Your Product

If you are returning your product, please contact the dealer for their returns policy.

Leaving A Review

We work very hard to give all of our customers the best possible service. If you have any problems, before leaving negative feedback, please contact us to give us a chance to resolve the issue. We would be delighted if you left us positive feedback! To leave a review, please go to:
uk.trustpilot.com/review/hyundaipowerequipment.co.uk

Ordering Spare Parts

You can find the spare part you are looking for at **power-spares.co.uk**

Product Record

Information

As soon as you have purchased the machine, we recommend that you fill out the following. If you need to contact an authorised dealer or customer service for information on servicing, you may need to provide the following information.

Date Of Purchase:.....

Dealer Name:.....

Dealer Phone:.....

Model Number:.....

Serial/Batch Number:.....

Contact Us

Need Help? Talk To Our Experts

Our friendly aftersales team will be more than happy to help you.



Phone

Call our team on 01646 687 880



Email

aftersales@hyundaipowerproducts.co.uk



Online Live Chat

Go to www.hyundaipowerproducts.co.uk



Post

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



Hyundai Support Website

Go to hyundaisupport.co.uk

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