

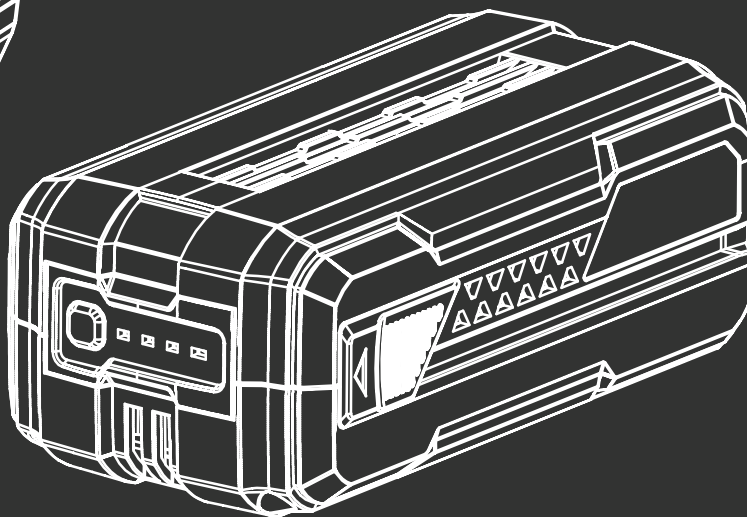
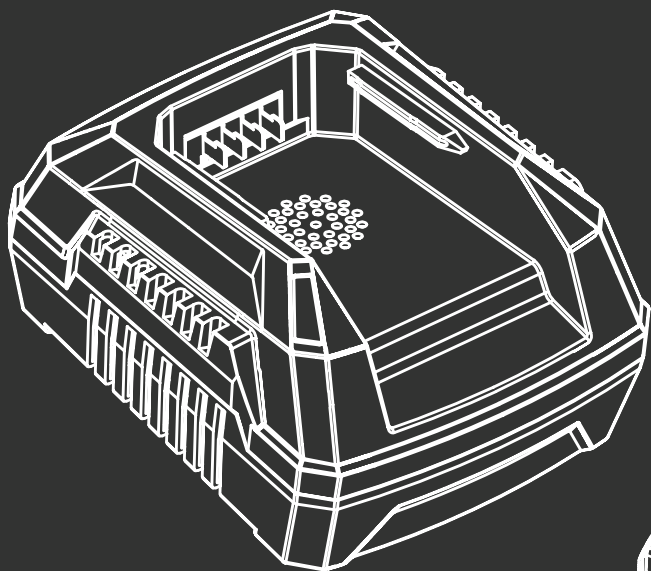
HYUNDAI
POWER PRODUCTS



BATTERY PACK & BATTERY CHARGER

HY40B2/HY40B4
HY40C2/HY40C5

Combined Instruction Manual



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.

Contents

Symbols On The Machine.....	4
Safety Information.....	5-8
Understand Your Machine.....	5
Personal Safety.....	5
Inspect Your Machine.....	6
During Use.....	6
Battery Charger.....	6
Battery Use And Care.....	7
Electrical Safety.....	8
Unboxing.....	9
Battery Information.....	10
Using The Battery.....	10
Specifications.....	10
Transport.....	10
Using The Battery.....	11
Battery Status.....	11
Charging The Battery.....	11
To Ensure A Long Battery Life.....	11
Charger Information.....	12
Using The Charger.....	12
Specifications.....	12
Using The Charger.....	13
Status Indicator Lights.....	13
Charging The Battery.....	13
Storage Of The Charger And Battery.....	13
Disposal.....	14
Useful Information.....	15
Manual Updates.....	15
Returning Your Product.....	15
Leaving A Review.....	15
Ordering Spare Parts.....	15

Symbols On The Machine

We have provided safety messages in this manual and on the product. 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 judgment.



INSTRUCTION MANUAL

Read and understand operator's manual before using the machine. Failure to follow instructions could result in death or serious injury.



GENERAL SAFETY WARNING

Indicates danger, warning or caution.



WEEE SYMBOL

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or local store for recycling advice.



CE SYMBOL

This product complies with the applicable European directives and an evaluation method of conformity for these directives was done.

Safety Information



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

⚠️ Understand Your Product

- **WARNING!** You must read these instructions carefully before operating the product. Make sure that you are familiar with the controls and properly operate the product. You must learn how to stop the product 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.
- 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.
- Know how to stop the product quickly in case of emergency. Understand the use of all controls.
- ALL MAINTENANCE other than that listed in this manual, should be carried out by professionally trained and certified personnel.

⚠️ Personal Safety

- **WARNING!** Never allow children or people unfamiliar with these instructions to use the product. Local regulations can restrict the minimum age of the operator.
- Stay alert, watch what you are doing and use common sense when operating the product. Never operate the product 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.
- 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.
- 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.
- 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.

Safety Information

Inspect Your Product

- You must check the general condition of the product before use.
- Never operate the product when it is in need of repair or is in poor mechanical condition. Replace damaged, missing, or failed parts before using it.
- Do not tamper with or disable safety systems.
- Only use manufacturer-recommended attachments.

During Use

- **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.

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 is a risk of injuries as well as damage caused by exploding batteries.
- 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.

Safety Information

Battery Use And 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.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- Liquid ejected from the battery may cause irritation or burns.
- Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks open or cracks, immediately discontinue its use and do not recharge it.
- Do not pierce the battery with nails, strike the battery with a hammer, step on the battery or otherwise subject it to strong impacts or shocks.
- Protect the battery pack against heat. Do not place the battery in direct sunlight or use or store the battery inside cars in hot weather. Doing so may cause the battery to generate heat, explode or ignite.
- Never try to charge a battery pack that is cracked or damaged in any other way. There is a danger of electric shock or electrocution.



- 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.

Safety Information



Electrical Safety


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.
- Power tool plugs 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.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

Unboxing

Unboxing

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

Carefully remove the product from the packaging and examine it for any sign of damage caused during shipping. 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. You must keep the packaging material in case the machine needs to be returned or repaired.

 **WARNING!** Some of the packaging material may be harmful to children. Keep out of reach of children.

Battery Information

Using The Battery

The HY40B2/HY40B4 is a battery from HYUNDAI. To avoid the risk of damage and injury, only use the correct charger to recharge HYUNDAI 40V batteries.

This battery 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 product. Supervise children. This will ensure that children do not play with the unit.

Specifications

Model	HY40B2	HY40B4
Product Type	Rechargeable Samsung Lithium-ion Battery Pack	Rechargeable Samsung Lithium-ion Battery Pack
Capacity	2.0Ah	4.0Ah
Output Voltage	40V	40V
LED Indicator	Battery Power	Battery Power
4 Green Lights	100% Power	100% Power
3 Green Lights	>75% Power	>75% Power
2 Green Lights	>50% Power	>50% Power
1 Green Light	>25% Power	>25% Power
Weight	0.9kg	1.0kg

Transport

The equivalent lithium content of the batteries included in the product package is below the appropriate limit values. Therefore the battery as an individual component as well as the power tool and its product package are not subject to national or international dangerous goods regulations as the standard 2.5Ah battery is not over the 100wh limit.

If several machines with lithium-ion are transported, these regulations may become relevant and special measures may be required (e.g. for the packaging).

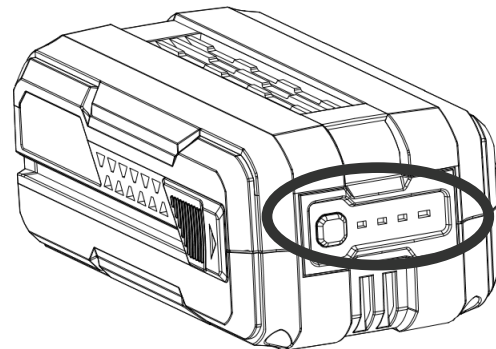
 **CAUTION!** Do not post batteries which have a damaged casing.

Using The Battery

Battery Status

The LED light indicates the state of charge of the battery.

- 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



Press the button to check the battery status.

The indicator will go out after 5 seconds.

If the LED flashes, the battery must be recharged. If the LED does not light up after the button is pressed, the battery is faulty and must be replaced.

Charging The Battery

1. Plug the charger into an AC outlet 220-250V (normal household voltage).
2. Insert the battery into the slots of the charger and slide into place until the battery locks into place.
3. The LED will flash green while the battery is charging.
4. Once the battery is fully charged, the LED indicator will show a steady green light.
5. Remove the battery by pressing and holding the latch button and sliding out of the charger.
6. Do not leave the battery on the charger. Remove it when it is fully charged.
7. Lithium-ion batteries have no memory effect - a partial charge will not damage your battery.

⚠ WARNING! Charge in a safe location away from moisture and heat sources!

To Ensure A Long Battery Life

⚠ CAUTION! Never charge batteries at temperatures below 0°C or above 40°C. Do not charge batteries in an environment which has high air humidity or at a high ambient temperature.

- Do not cover batteries and/or the battery charger during the charging process. Battery and charger heat up during the charging process. This is perfectly normal.
- Lithium-ion batteries do not exhibit the well known “memory effect”. Before a battery is recharged, it should be fully discharged and the charging process always run to the end.

⚠ NOTE! Follow the instructions for charging the battery. Reduced operating times after recharging indicates that the battery is worn out and must be replaced.

Charger Information

Using The Charger

The HYCH402 / HYCH405 is a battery charger from HYUNDAI. This charger can be used with an input voltage of 230V and an AC frequency of 50-60Hz.

To avoid the risk of damage and injury, only use the charger to recharge HYUNDAI 40V batteries. Never try to recharge non-rechargeable batteries.

This charger 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 product. Supervise children. This will ensure that children do not play with the unit.

Specifications

Model	HY40C2
Input Voltage	230V
Input Power	100W (Max.)
Input Frequency	50-60Hz
Input Current	2A (Max.)
Output Voltage	40V
Output Current	2A
Weight	0.8kg

Model	HY40C5
Input Voltage	230V
Input Power	300W (Max.)
Input Frequency	50-60Hz
Input Current	5A (Max.)
Output Voltage	40V
Output Current	5A
Weight	0.9kg

Using The Charger

WARNING: If the charger is plugged in and no LED lights are illuminated, check that the power cord is firmly plugged into the side of the charger and that the electrical outlet is live, by testing with a different electrical appliance. If the charger still does not illuminate it check with your nearest authorized service centre. Do not attempt to use the charger.


Status Indicator Lights

The LED light indicates the operating status and the state of charge of the battery.

- LED steady red : The charger is ready to charge, but no battery is connected.
- LED flashes green : Battery is charging.
- LED steady green : The battery is fully charged and should be removed.
- LED flashes red : Battery fault or overheat.

Charging The Battery

1. Plug the charger into an AC outlet 220-250V (normal household voltage).
2. Insert the battery into the slots of the charger and slide into place until the battery locks into place.
3. The LED will flash green while the battery is charging.
4. Once the battery is fully charged, the LED indicator will show a steady green light.
5. Remove the battery by pressing and holding the latch button and sliding out of the charger.
6. Do not leave the battery on the charger. Remove it when it is fully charged.
7. Lithium-ion batteries have no memory effect - a partial charge will not damage your battery.

 **WARNING!** Charge in a safe location away from moisture and heat sources!

Storage Of The Charger And Battery

- For long term storage (more than 1 month), it is preferable that the battery is fully charged and stored in a dry place at a temperature between 10-25°C.
- The charger should be stored in the same conditions as the battery, taking care that no foreign objects such as metal chips enter through the ventilation slots of the charger, or across the battery charging terminals.
- Ensure that the battery is stored away from anything that might short out the power connectors on the battery.

Disposal

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, petrol, 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.

Recycling And 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.

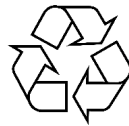
Certain products contain WEEE waste which should not be disposed of in your domestic waste.

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.



This symbol means you should 'Reduce - Reuse - Recycle'

For further information about disposal please contact your Local Authority.

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.

Useful Information

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.

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!

Ordering Spare Parts

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.

HYUNDAI
POWER PRODUCTS

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