HYUNDAI 18V COMBI (HAMMER) DRILL Model HY2155



User Manual

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1. OWNER'S MANUAL & SAFETY INSTRUCTIONS

- 1.1. How to read the manual.
 - 1.1.1. Keep this manual for the safety warnings and precautions, assembly, operation, inspection, maintenance and cleaning procedures.
 - 1.1.2. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number).
 - 1.1.3. Keep this manual and the receipt in a safe and dry place for future reference.
 - 1.1.4. The term "power tool" in the warnings refers to your mains operated (corded) power tool or battery-operated (cordless) power tool.
 - 1.1.5. This combi drill is intended for inserting and removing screws and bolts within the drill's capability.

2. GENERAL SAFETY

🔔 DANGER	WARNING	AUTION	ΝΟΤΕ	
Non-observance will result in the risk of serious injury or death to oneself or others.	Non- observance will result in the risk of injury to oneself or others.	Indicates a hazard which, if not avoided, might result in minor or moderate injury.	NOTE or IMPORTANT These give details or further information on what has already been said, and aim to prevent damage to the machine or cause other damage.	Read Manual

MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.	WARNING	DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.
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2.1. Work Area Safety

- 2.1.1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- 2.1.2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- 2.1.3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2. Electrical Safety.

- 2.2.1. 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.
- 2.2.2. 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.

- 2.2.4. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 2.2.5. 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.
- 2.2.6. When operating a power tool outdoors, use an extension cord suitable for outdoor use.
- 2.2.7. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- 2.2.8. 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.

2.3. Personal Safety.

- 2.3.1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- 2.3.2. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- 2.3.3. 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 or energizing power tools that have the switch on invites accidents.
- 2.3.4. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- 2.3.5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 2.3.6. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- 2.3.7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

2.4. Power Tool Use and Care.

- 2.4.1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- 2.4.2. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- 2.4.3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- 2.4.4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- 2.4.5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- 2.4.6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.



- 2.4.7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.
- 2.4.8. Use of the power tool for operations different from those intended could result in a hazardous situation.
- 2.5. Battery Use and Care
 - 2.5.1. Recharge only with the supplied charger, and 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.
 - 2.5.2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
 - 2.5.3. 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 explosion, burns and/or a fire.
 - 2.5.4. 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.

2.6. Service.

- 2.6.1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
- 2.7. Cordless combi drill safety warnings.
 - 2.7.1. Wear ear protectors when drilling. Exposure to noise can cause hearing loss.
 - 2.7.2. Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.
 - 2.7.3. Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
 - 2.7.4. Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.
 - 2.7.5. Hold the tool firmly.
 - 2.7.6. Keep hands away from rotating parts.
 - 2.7.7. Do not leave the tool running. Operate the tool only when hand-held.
 - 2.7.8. Do not touch the bit or the work piece immediately after operation; they may be extremely hot and could burn your skin.
 - 2.7.9. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.

3. BATTERY PACK

- 3.1. Before use.
 - 3.1.1. Before using battery pack, read all instructions and cautionary markings on battery charger, battery, and tool using battery.
 - 3.1.2. Do not disassemble battery cartridge.

- 3.1.3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
- 3.1.4. If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
- 3.1.5. Do not short the battery cartridge, shorting the terminal may cause explosion, burns and/or fire
- 3.1.6. Do not touch the terminals with any conductive material.
- 3.1.7. Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
- 3.1.8. Do not expose battery cartridge to water or rain. Battery short circuit can cause a large current flow, which may result in an explosion, overheating, possible burns and even a breakdown.
- 3.1.9. Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50 ° C (122 ° F).
- 3.1.10. Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
- 3.1.11. Be careful not to drop or damage battery pack.
- 3.1.12. Do not use a damaged battery.
- 3.2. Tips for maintaining maximum battery life
 - 3.2.1. Charge the battery cartridge before completely discharged.
 - 3.2.2. Always stop tool operation and charge the battery cartridge when you notice less tool power.
 - 3.2.3. Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
 - 3.2.4. Charge the battery cartridge with room temperature at 10 °C 40 °C (50 °F 104 °F). Let a hot battery cartridge cool down before charging it. Charge the battery cartridge once in every six months if you do not use it for a long period of time.

4. CHARGING

🕂 WARNING	Make sure that you charge the battery for at least 1 hour before operation.
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- 4.1. Plug the charger into the mains outlet socket (230v).
- 4.2. The battery is supplied partially charged. Therefore to ensure full capacity of the battery, completely charge the battery in the battery charger before using your power tool for the first time.
- 4.3. A fully discharged battery pack will charge in about 60 minutes in a surrounding temperature between 32°F (0°C) and 104°F (40°C).
- 4.4. Charge the Lithium-ion battery pack with the correct charger.
- 4.5. Align the raised ribs of the battery pack with the slot in the charger.
- 4.6. Slide the battery pack onto the charger.
- 4.7. The charger will communicate with the battery pack to evaluate the condition of the battery pack.
- 4.8. The RED light will be ON continuously and GREEN light will FLASH continuously when charging is in progress, this is normal part of the charging operation.



4.9. After charging is complete, the GREEN LED on the charger will come ON and the RED light will go OFF,

^{4.10.} The battery pack will fully charge if left on the charger, but it will not overcharge.

Led Indicator	Battery Pack	Red Led	Green Led	Action
📕 Hi/Lo Temp 🏅	Hot/Cold battery	Flashing	Flashing	Charging will begin when battery returns to 5°C-40°C
Defective battery	Defective	Flashing	OFF	Battery pack or charger is defective
Battery Charging 🛨	Charging	ON	Flashing	Charging
Battery O Full O	Fully charged	OFF	ON	Charging is complete Maintenance charging

5. INSERTING / REMOVING BATTERY PACK



Always switch off the tool before installing or removing of the battery cartridge. To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge. Always install the battery cartridge fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you. Do not use force when installing the battery cartridge. If the cartridge does not slide in easily, it is not being inserted correctly.

5.1. Inserting/removing battery pack.

- 5.1.1. Insert battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a click. If you can see the red indicator on the upper side of the button, it is not locked completely.
- 5.1.2. To remove battery press battery unlock button (1) and slide in direction of arrow (2).



5.2. Battery protection system.

- 5.2.1. The tool will automatically stop during operation if the tool and/or battery are placed under one of the following conditions;
 - 5.2.1.1. Overloaded: The tool is operated in a manner that causes it to draw an abnormally high current. In this situation, release the switch trigger on the tool and stop the application that caused the tool to become overloaded. Then pull the switch trigger again to restart. If the tool does not start, the battery is overheated. In this situation, let the battery cool before pulling the switch trigger again.
 - 5.2.1.2. Low battery voltage: The remaining battery capacity is too low and the tool will not operate. In this situation, remove and recharge the battery.

6. QUICK REFERENCE GUIDE and USE



1 Chuck Jaws.	2 Keyless Chuck.	3 Torque Setting -Drill collar.	4 Speed Selector Switch.	5 Auxiliary Handle.
6 Trigger Switch.	7 Battery Unlock button.	8 Battery Pack.	9 Reversing Switch.	10 Hook.

6.1. Installing side grip (auxiliary handle).

CAUTION Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

6.1.1. Always use the side grip to ensure operating safety. Insert the side grip so that the protrusions on the grip base and steel band fit in between the grooves on the tool barrel. Then tighten the grip by turning clockwise. When you turn the side grip, loosen and remove the grip, then turn the grip and insert it again. N.B. Rotate clockwise to tighten and anticlockwise to loosen.



- 6.2. Installing or removing driver bit or drill bit
 - 6.2.1. Turn the sleeve counter clockwise to open the chuck jaws. Place the bit in the chuck as far as it will go.
 - 6.2.2. Turn the sleeve clockwise to tighten the chuck. To remove the bit, turn the sleeve counter clockwise.



- 6.3. Installing bit holder
 - 6.3.1. Put the bit holder into the chuck jaws and secure it into place by rotating the chuck in a clockwise direction, to remove rotate chuck in an anticlockwise direction.
 - 6.3.2. When not using the driver bit, keep it in the bit holder on side of tool, bits 45 mm long can be kept there.
- 6.4. Adjustable depth rod (where available).
 - 6.4.1. The adjustable depth rod is used to drill holes of uniform depth. Loosen the clamp screw, set to desired position, and then tighten the clamp screw.

6.5. Hook

- 6.5.1. The hook is convenient for temporarily hanging the tool.
- 6.5.2. This can be installed on either side of the tool.
- 6.5.3. To install the hook, insert it into a groove in the tool housing on either side and then secure it with a screw. To remove, loosen the screw and then take it out.

6.6. Turning on.

switch trigger returns to the "OFF" position when released.	Before inserting the battery cartridge into the tool, always check to see that the
56 I	switch trigger returns to the "OFF" position when released.

6.6.1. To start the tool, simply pull the switch trigger. Tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop.



6.7. LED Lamp.

CAUTION	Do not look in the light or see the source of light directly.
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- 6.7.1. Pull the switch trigger to light up the lamp.
- 6.7.2. The lamp will stay ON whilst the switch trigger is being pulled. The lamp goes out 10 -15 seconds after releasing the trigger.
- 6.7.3. NOTE: Use a dry cloth to wipe the dirt off the lens of lamp.
- 6.7.4. Be careful not to scratch the lens of lamp, or it may lower the illumination.



6.8. Reversing switch.

CAUTION	Always check the direction of rotation before operation. Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool. When not operating the tool, always set the reversing switch lever to the neutral position.
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6.8.1. This tool has a reversing switch to change the direction of rotation. Depress the reversing switch lever from the side for clockwise rotation or from the B side for counter clockwise rotation.

6.8.2. When the reversing switch lever is in the neutral position, the

switch trigger cannot be pulled.



6.9. Speed change.

AUTION	Do not use the speed change lever while the tool is running. The tool may be damaged. Always set the speed change lever fully to the correct position. If you operate the tool with the speed change lever positioned halfway between the "1" side and, "2" side, the tool may be damaged.
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6.9.1. To change the speed, first switch off the tool and then slide the speed change lever to the "2" side for high speed or, "1" side for low speed. Be sure that the speed change lever is set to the correct position before operation. Use the right speed for your job.



6.10. Selecting mode.

•	Always set the mode selection ring correctly to your desired mode mark. If you
CAUTION	operate the tool with the ring positioned halfway between the mode marks, the
	tool may be damaged.

- 6.10.1. This tool employs an action mode changing ring. Select one of the three modes suitable for your work needs by using this ring.
- 6.10.2. For rotation only drilling without hammer, turn the ring so that the arrow on the tool body points toward the mark on the ring.
- 6.10.3. For rotation with hammer mode, turn the ring so that the arrow points toward the \mathbb{T} mark on the ring.
- 6.10.4. For rotation with clutch (inserting/removing screws, turn the ring so that the arrow points

toward the 📕 mark on the ring.



6.11. Adjusting torque, screwdriver mode

NOTEThe adjusting ring does not lock when the pointer is positioned only halfway
between the graduations.

- 6.11.1. The torque can be adjusted in 21 steps by turning the adjusting ring so that its graduations are aligned with the pointer on the tool body.
- 6.11.2. First, rotate the action mode ring lever to the position of required mode.
- 6.11.3. Torque is at a minimum when the number 1 is aligned with the pointer, and maximum when the marking is aligned with the pointer. The clutch will slip at various torque levels when set at the number 1 to 21.
- 6.11.4. Before actual operation, drive a trial screw into a test piece of duplicate material to determine which torque level is required for a particular application.
- 6.12. Hammer drilling.

- 6.12.1. First, slide the action mode change lever so that it points to the ee T marking.
- 6.12.2. The adjusting ring can be aligned in any torque levels for this operation.
- 6.12.3. Be sure to use a tungsten-carbide tipped bit.
- 6.12.4. Position the bit at the desired location for the hole, then pull the switch trigger.
- 6.12.5. Do not force the tool. Light pressure gives best results.
- 6.12.6. Keep the tool in position and prevent it from slipping away from the hole.
- 6.12.7. Do not apply more pressure when the hole becomes clogged with chips or particles. Instead, run the tool at an idle, and then remove the bit partially from the hole. By repeating this several times, the hole will be cleaned out and normal drilling may be resumed.

6.13. Screw driving operations.

<u>∕</u> NOTE	Make sure that the driver bit is inserted straight in the screw head, or the screw and/or bit may be damaged.
	When driving wood screw, predrilled a pilot hole 2/3 the diameter of the screw. It makes driving easier and prevents splitting of the work piece.
	If the tool is operated continuously until the battery cartridge has discharged,
	allow the tool to rest for 15 minutes before proceeding with a fresh battery.

- 6.13.1. First, slide the action mode change lever so that it points to the 📕 marking.
- 6.13.2. Adjust the adjusting ring to the proper torque level for your work.
- 6.13.3. Then proceed as follows. Place the point of the driver bit in the screw head and apply pressure to the tool.
- 6.13.4. Start the tool slowly and then increase the speed gradually.
- 6.13.5. Release the switch trigger as soon as the clutch cuts in.

6.14. Drilling.

CAUTION	Pressing excessively on the tool will not speed up the drilling. In fact, this excessive
	pressure will only serve to damage the tip of your bit, decrease the tool
	performance and shorten the service life of the tool.

- 6.14.1. There is a tremendous force exerted on the tool/bit at the time of breaking through the hole. Hold the tool firmly and exert care when the bit begins to break through the work piece.
- 6.14.2. A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back out. However, the tool may back out abruptly if you do not hold it firmly.
- 6.14.3. Always secure small work pieces in a vice or similar hold-down device.
- 6.14.4. If the tool is operated continuously until the battery cartridge has discharged, allow the tool to rest for 15 minutes before proceeding with a fresh battery.
- 6.14.5. First, slide the action mode change lever so that it points to the ^a marking. The adjusting ring can be aligned in any torque levels for this operation. Then proceed as follows.
- 6.15. Drilling into wood.
 - 6.15.1. When drilling in wood, the best results are obtained with wood drills equipped with a guide screw. The guide screw makes drilling easier by pulling the bit into the work piece.



6.16. Drilling into metal

- 6.16.1. To prevent the bit from slipping when starting a hole, make an indentation with a centrepunch and hammer at the point to be drilled. Place the point of the bit in the indentation and start drilling.
 - 6.16.1.1. Use a cutting lubricant when drilling metals. The exceptions are iron and brass which should be drilled dry.

7. GENERAL MAINTENANCE

WARNING	To reduce the risk of personal injury and damage. Never immerse your power tool, battery pack or charger in liquid or allow a liquid to flow inside them. To reduce the risk of injury always unplug the charger remove the battery pack from the charger or power tool before performing any maintenance. Never disassemble the power tool, Battery pack or charger. Contact a service facility for ALL repairs.
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- 7.1. Keep your tool, battery pack and charger in good repair by adopting a regular maintenance program.
- 7.2. It is essential to keep the tool clean, remove dust or debris after each use, and pay particular attention to the ventilation slots.
- 7.3. Clean the housing with a soft cloth moistened with soapy water; do not use solvents such as: Petrol, Alcohol, ammonia, etc...
- 7.4. Ingress of dust and dirt can stop the chuck and switches operating blow out with compressed air periodically and lightly lubricate with contact spray.

Battery	18V d.c. Li-ion, 2000mAh
Chuck size	13mm, 1/2"
No Load Speed	0~400, 0~1600rpm
Impact Rate	0~5200, 0~20800bpm
Max torque	45N.m
Charging Time	70 minutes
Net Weight	1.5kgs
Charger input	230VAC, 50Hz
Charger output	18VDC, 1.7Ah

8. SPECIFICATION

9. ENVIRONMENTAL

- 9.1. Do not dispose of electric equipment together with household waste material! In observance of European Directive 2012/19/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility. If electrical appliances are disposed of in landfills or dumps hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
- 9.2. For further information on the disposal of this product, please contact your dealer or your nearest domestic waste collection service.



3. Reduce – Reuse - Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.



9.4. When the product is no longer required, it must be disposed of in a manner which is compatible with the environment.

10. GENPOWER CONTACT DETAILS

- 10.1. Postal address;Genpower Limited, Isaac Way, Pembroke Dock,Pembrokeshire, SA72 4RW, UK.
- 10.2. Telephone contact number; Office +44 (0) 1646 687880
- 10.3. Email contact; Technical <u>service@genpower.co.uk</u>
- 10.4. Web site; www.hyundaipowerequipment.co.uk

11. DECLARATIONS OF CONFORMITY

- 11.1. Genpower Ltd confirms that this Hyundai product conform to the following CE Directives;
 - 11.1.1. 2006/42/EC Machinery Directive
 - 11.1.2. 2004/108/EC EMC Directive
 - 11.1.3. 2006/95/EC Low Voltage Directive

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