

HYUNDAI

230V 250W SANDER

Model HY2160



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 sander is intended for sanding materials within its capability.


2. SPECIFIC SAFETY INSTRUCTIONS

 WARNING	<p>Extreme Caution Required - Extreme care should be taken when sanding painted surfaces. The paint may contain LEAD which is poisonous. Any pre 1960 building may have paint containing lead on wood or metal surfaces which has been covered with additional layers of paint.</p>
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- 2.1. STOP! If you suspect that paint on surfaces in your house contains lead seek professional advice.
- 2.2. Lead based paints should only be removed by a professional and should not be removed using a sander. Once deposited on surfaces, hand to mouth contact can result in the ingestion of lead. Exposure to even low levels of lead can cause irreversible brain and nervous system damage. The young and unborn children are particularly vulnerable.
- 2.3. Some wood and wood type products especially MDF (Medium Density Fibreboard) can produce dust that can be hazardous to your health. We recommend the use of an approved face mask with replaceable filters when using this machine in addition to using the dust extraction facility.
- 2.4. Ensure that the holes in the sanding sheet align with the holes in the machine sanding pad.
- 2.5. Ensure that the sanding sheet is securely retained under the sanding sheet clamps and that the sanding sheet is taught.
- 2.6. Do not start the machine whilst it is in contact with the work piece.
- 2.7. Check the work piece for any protruding nails, screw heads or anything that could tear or damage the sanding sheet.
- 2.8. Hold the machine correctly using two hands and adopt a stable stance, make sure that the mains cable is prevented from coming into contact with the machine or getting caught up on other objects preventing completion of the sanding pass.
- 2.9. Replace the sanding sheet as soon as it becomes worn or if it is torn. Torn sanding sheets can cause deep scratches which are difficult to remove.
- 2.10. Always start sanding with coarse grade of sanding sheet working through the grades to the finest grade.
- 2.11. Wherever possible always sand in the direction of the grain and remove the sanding dust between each grade of sanding sheet.
- 2.12. Do not use this sander for sanding Gyproc or Gyproc type products.

3. GENERAL SAFETY

 DANGER Non-observance will result in the risk of serious injury or death to oneself or others.	 WARNING Non-observance will result in the risk of injury to oneself or others.	 CAUTION Indicates a hazard which, if not avoided, might result in minor or moderate injury.	 NOTE 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
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 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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3.1. Work Area Safety

- 3.1.1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- 3.1.2. 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.
- 3.1.3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

3.2. Electrical Safety.

- 3.2.1. 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.
- 3.2.2. 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.
- 3.2.3.
- 3.2.4. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 3.2.5. 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.
- 3.2.6. When operating a power tool outdoors, use an extension cord suitable for outdoor use.
- 3.2.7. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- 3.2.8. 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.

3.3. Personal Safety.

- 3.3.1. 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.
- 3.3.2. 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.
- 3.3.3. 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.
- 3.3.4. 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.
- 3.3.5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 3.3.6. 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.
- 3.3.7. 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.

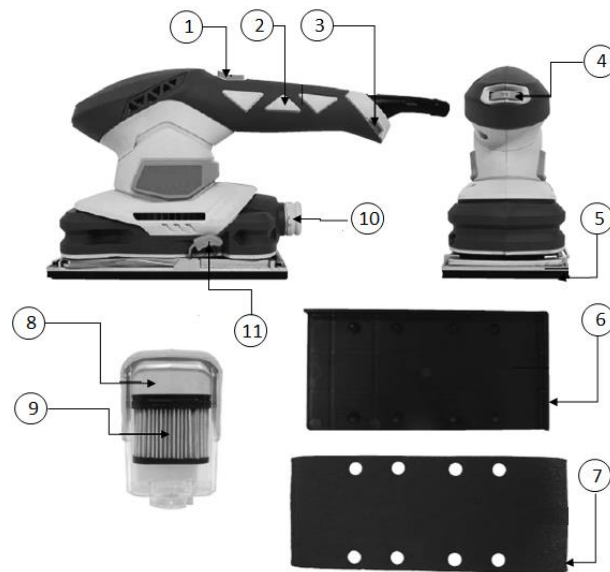
3.4. Power Tool Use and Care.

- 3.4.1. 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.
- 3.4.2. 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.
- 3.4.3. 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.
- 3.4.4. 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.
- 3.4.5. 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.
- 3.4.6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 3.4.7. Use the power tool, accessories and etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.
- 3.4.8. Use of the power tool for operations different from those intended could result in a hazardous situation.

3.5. Service.

- 3.5.1. 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.


4. QUICK REFERENCE GUIDE and USE



PARTS			
1 On/Off Switch.	2 Handle.	3 LED Power Light	4 Variable Speed Dial.
5 Vibrating Plate.	6 Sandpaper Punch Plate.	7 Sandpaper.	8 Dust Collector.
9 Dust Collector Filter.	10 Dust Extraction Outlet.	11 Clamping Lever	

TECHNICAL SPECIFICATION			
Rated Voltage.	230V – 50 Hz.	Net Weight (Machine Only).	1.9 Kg
Rated Power.	250 Watts.	Cable Length.	2 metres
No Load Speed.	600 - 12,000 strokes/min. (SPM)	Sound Pressure Level.	87 dB (L _{pA})
Base Dimensions	184 mm x 90 mm.	Sound Power Level.	98 dB (L _{WA})
Sandpaper Size.	230 mm x 90 mm.	Vibration Level	9.234 m/s ²
Eccentricity	0.8 mm.		

5. UNPACKING and ASSEMBLY

 CAUTION	This packaging contains sharp objects. Take care when unpacking. Remove the machine, together with the accessories supplied, from the packaging.
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5.1. Unpacking.

- 5.1.1. Check carefully to ensure that the machine is in good condition and account for all the accessories listed in this manual.
- 5.1.2. If any parts are found to be missing, the machine and its accessories should be returned together in their original packaging to the retailer.
- 5.1.3. Do not throw the packaging away, keep it safe throughout the guarantee period, then recycle if possible, otherwise dispose of it by the proper means.
- 5.1.4. Do not let children play with empty plastic bags due to the risk of suffocation.

5.2. Assembly

<p>NOTE</p>	<p>Before carrying out any assembly or disassembly of the unit please ensure that the unit is not connected to the electrical supply.</p>
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5.3. Fitting the Dust collector box.

<p>NOTE</p>	<p>Always use machine with Dust collector box fitted or dust extraction system.</p>
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- 5.3.1. Fit the dust collection box onto the sander by pushing the dust collection box onto the sander and locating the lugs, at the same time turn clockwise to lock into position.



5.4. Selecting correct sandpaper.

<p>WARNING</p>	<p>Do not use sander without sandpaper, doing so will damage the cushion.</p>
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- 5.4.1. Selecting the correct size, grit and type of sand paper is an extremely important step in achieving a high quality sanded finish. Aluminium oxide, silicon carbide, and other synthetic abrasives are best for power sanding. Natural abrasives, such as flint and garnet are too soft for economical use in power sanding.
- 5.4.2. In general, coarse grit will remove the most material and finer grit will produce the best finish in all sanding operations. The condition of the surface to be sanded will determine which grit will do the job. If the surface is rough, start with a coarse grit and sand until the surface is uniform. Medium grit may then be used to remove scratches left by the coarser grit and finer grit used for finishing of the surface.
- 5.4.3. Always continue sanding with each grit until surface is uniform.
- 5.4.4. Sheet/pad recommended use;
 - 5.4.4.1. Coarse sanding, 80-grit sanding sheet.
 - 5.4.4.2. Light sanding, 120-grit sanding sheet.
 - 5.4.4.3. Light sanding, 150-grit sanding sheet.

5.5. Attaching adhesive sandpaper.

<p>WARNING</p>	<p>Always disconnect the machine from the power supply before adjustment, changing accessories and maintenance.</p>
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- 5.5.1. Select an abrasive paper with the correct grit corresponding to the work to be carried out.
- 5.5.2. Inspect the sandpaper before use and do not use if broken or defective.
- 5.5.3. Align the holes in the hook and loop sandpaper/pad with the holes in the base and carefully press the fuzzy side of the sandpaper/pad against the base as firmly as possible.



NOTE

Hook and loop sandpaper/pads can be reused depending on the life of the sanding adhesive. Keep the fuzzy side of the sandpaper/pad clean by brushing lightly with a small brush to provide the best adhesion.

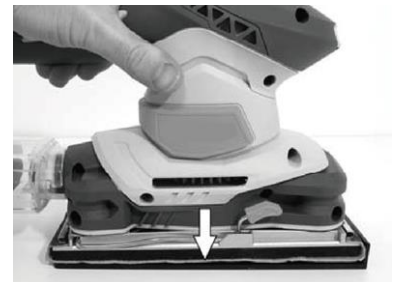
5.6. Attaching Non-Adhesive Sandpaper.

- 5.6.1. The abrasive side of the paper faces outwards from the base plate. Locate the clamps on either side of the machine.
- 5.6.2. Push the clamp lever inwards to clear the securing tag. The lever is under spring tension.
- 5.6.3. Allow the lever to rise upwards and then manoeuvre outwards and downwards.
- 5.6.4. This allows the clamp to release its grip on the sander base. Repeat the operation for other side. Position one end of the sandpaper under the clamp and re-secure.
- 5.6.5. The sandpaper should be pulled taught and follow the contours of the sander base. Ensure alignment of dust extraction holes with the holes in the sandpaper sheets. Position the other end of the sandpaper under the clamp and re-secure.




5.7. Paper Punch.

- 5.7.1. A paper punch template has been supplied with your sander for aligning and punching holes in sandpaper. The punched holes must align with the holes in the sander base.
- 5.7.2. Attach the sandpaper onto the sander.
- 5.7.3. Align the sander base over the paper punch.
- 5.7.4. Push the sander down onto the paper punch.

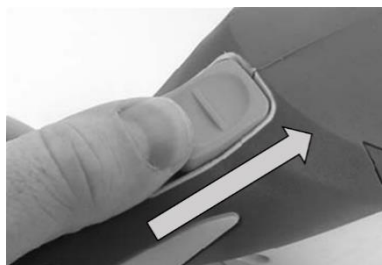


6. OPERATION

 WARNING	<p>Before connecting the sander to a power supply, make sure it is not turned on. Failure to do so could result in accidental starting of the sander resulting in possible serious injury.</p>
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6.1. Turning the sander ON and OFF.

- 6.1.1. To turn the sander ON, slide the switch to the 'I' position.
- 6.1.2. To turn the sander OFF, slide the switch to the 'O' position.





6.2. Variable Speed Control.

- 6.2.1. The variable speed control allows the sander to develop a no load speed that can be adjusted from 600 to 12000 spm. The variable speed control selector is located on the front of the sander.
- 6.2.2. The speed can be set according to the sanding purpose or work-piece's surface you will be using.
- 6.2.3. With the dial facing away from you, turn the dial clockwise to increase speed for rough surfaces or for quick removal of stock and anti-clockwise to decrease speed for the smaller, delicate sanding applications.



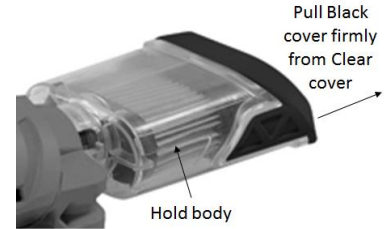
6.3. Operating the sander.

 WARNING	<p>Always wear safety goggles and a dust mask. Always hold the sander in front and away from your body. The Pad Sander is designed for dry sanding only and under no circumstances should it be used for wet sanding.</p>
 NOTE	<p>Always keep the dust extraction holes in the vibrating plate free of dirt or other obstructions. The Sander is not to be used for sanding Gypsum.</p>


- 6.3.1. Turn on the sander, gradually lower the sander onto the work piece, and then move it slowly over the work piece using small circular motions.
- 6.3.2. Ensure that the entire sandpaper surface is in contact with the work piece.
- 6.3.3. Let the sander do the work and do not apply addition pressure as this will only reduce the efficiency of the motor and rapidly wear the sandpaper.
- 6.3.4. Excessive pressure can cause damage to the motor.
- 6.3.5. If you are using the sander over an extended period the motor may overheat. If this occurs, turn the sander off and allow it to cool down.

6.4. Emptying the Dust Collection Box

- 6.4.1. We recommend the dust collection box should be emptied when it is no more than half full.
- 6.4.2. Empty and clean the dust collection box thoroughly upon completion of a sanding operation and before storage of the sander.
- 6.4.3. Ensure that the sander is switched off and unplugged from the mains supply.
- 6.4.4. Twist the dust collection box anti-clockwise and remove it away from the sander.
- 6.4.5. Remove the dust box cover by pulling firmly away from the collection box.
- 6.4.6. Take out the filter and shake both the filter and dust box over a dustbin.











7. GENERAL MAINTENANCE

 WARNING	<p>Do not at any time let brake fluids, petrol, petroleum based products, penetrating oils, etc., come in contact with plastic parts.</p> <p>Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.</p>
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- 7.1. Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.
- 7.2. Do not use caustic cleaning agents to clean the plastic housing.
- 7.3. Always keep your sander clean, regularly clean out the ventilation slots.
- 7.4. Always keep the dust extraction holes in the vibrating plate free of dirt or other obstructions.
- 7.5. Water must never come into contact with the machine.

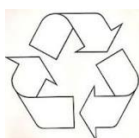
8. SYMBOLS

- 8.1. The rating plate on this product may show some or all of the following symbols.
- 8.2. These represent important information about the product or instructions on its use.

			
<p>Wear hearing protection. Wear eye protection. Wear respiratory protection.</p>	<p>Conforms to relevant safety standards.</p>	<p>Double insulated for additional protection.</p>	<p>Read the instruction manual.</p>
			
<p>Product conforms to RoHS requirements</p>	<p>General warning</p>	<p>Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.</p>	

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.



- 9.3. 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 service@genpower.co.uk
- 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



GENPOWER LTD

Isaac Way, Pembroke Dock, Pembrokeshire, UK, SA72 4RW

T: +44 (0) 1646687 880

F: +44 (0) 1646686 198

E: sales@genpower.co.uk

www.hyundaipowerequipment.co.uk