

HYUNDAI

ELECTRIC AIR COMPRESSOR

Model HY2524



User Manual

Licensed by Hyundai Corporation, Korea

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1. SAFETY.  

1.1. The operator of the machine;

1.1.1. Is responsible for and has a duty of care in making sure that the compressor is operated safely and in accordance with the instructions in this user manual.

1.1.2. Should never leave it in a condition which would allow an untrained or unauthorised person/s to operate this compressor.





















1.1.2.1. Should take care and show due diligence for the safety of and with regard to those around whilst using the machine, to include but not limited to;

1.1.2.1.1. Elderly, children, pets, livestock and property.

1.2. Some or all of the following PPE, Warning Signs and symbols may appear throughout this manual and you must adhere to their warning/s. Failure to do so may result in personal injury.

Personal Protective clothing (PPE)



<u>Warning Signs and Symbols – FOLLOW safety messages to avoid or reduce risk of injury or death.</u>					
 DANGER DANGER - indicates a hazard which if not avoided could result in serious injury or death.	 WARNING WARNING - indicates a hazard which if not avoided could result in serious injury or death.	 CAUTION CAUTION - indicates a hazard which if not avoided might result in minor or moderate injury.	 NOTE NOTE - indicates a situation that could easily result in equipment damage.	 READ MANUAL	
 EXPLOSION	 FIRE	 ELECTRIC SHOCK	 TOXIC FUMES	 KICKBACK	 FLUID INJECTION
 HOT SURFACE	 FLYING OBJECTS	 SLIPPERY	 FALL	 MOVING PARTS	 HOSES UNDER PRESSURE
 GOGGLES	 DO NOT OPEN WHEN IN USE	 RISK OF ACCIDENTAL START-UP			

1.3. Electrical Safety.

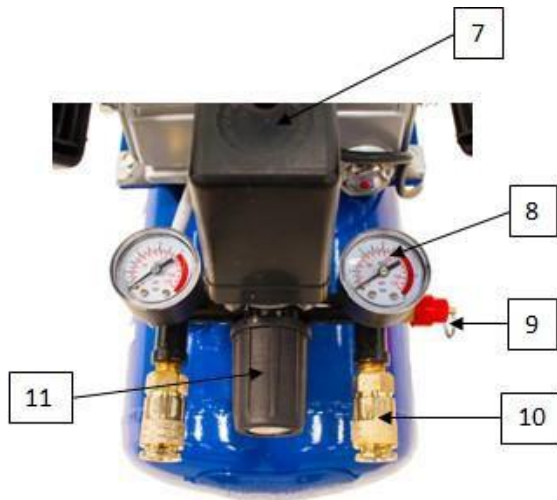
- 1.3.1. Electricity can kill - never work on LIVE/ENERGISED equipment.
- 1.3.2. Identify electrical isolation method and always isolate all electrical supplies, prior to carrying out any maintenance work.
- 1.3.3. Prior to use and with all electrical supplies isolated check all electrical cables, plugs and connections for the following.
 - 1.3.3.1. 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 should be taken out of service until the damage has been repaired by an electrically competent person.
- 1.3.4. All trailing cables should be routed so as not to cause any kind of trip hazard.
- 1.5. Never work on or near electricity with wet hands, wet clothing, and wet gloves.

2. PARTS.

Picture 1.



Picture 2.

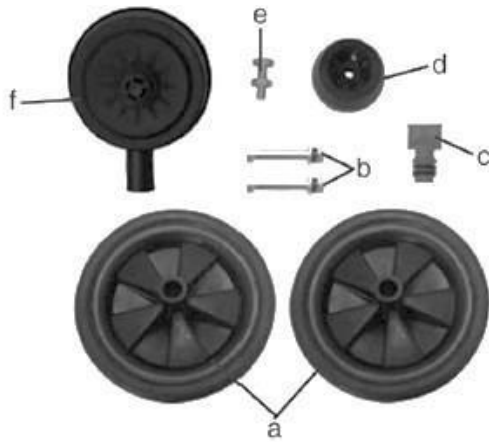


Picture 3.



1. Inlet air filter.
2. Compressor.
3. Oil level indicator.
4. Air tank.
5. Foot.
6. Handle.
7. ON- OFF switch
8. Pressure gauge
9. Pressure relief valve
10. Quick relase outlet.
11. Pressure regulator.
12. Tank drain valve

2. PARTS Continued.



- | | | |
|----|-------------------|-----|
| a. | Wheels | x 2 |
| b. | Wheel bolts | x 2 |
| c. | Oil filler cap | x 1 |
| d. | Rubber foot | x 1 |
| e. | Nut/Bolt for foot | x 1 |
| f. | Air filter | x 1 |

Accessory kit



3. APPLICATION.

This compressor is used to produce compressed air for pneumatic tools.

4. INSTALLATION INSTRUCTIONS.

4.1 Check the unit when it is delivered. Any damage should be immediately reported to the company.

4.2 Check the oil level before starting up.

4.3 Turn the machine on only if you are close to it.

4.4 Long air lines and long supply lines (extension) should be avoided.

4.5 Make sure that the air-intake is dry and has no dust.

4.6 Do not install the compressor in the damp or wet room.

4.7 The compressor is only allowed to work in suitable well ventilated areas. The working temperature is 5 °C to 40 °C).

4.7.1 The room must be free of dust, acids, and fumes, explosive or flammable gas.

4.8 The compressor is suitable for use in dry rooms.

5. ADDITIONAL SAFETY.

5.1 Safety notes

5.1.1 When using this compressor, you must prevent the electric shock, injury or fire. The following safety measures must be followed. Read and follow these instructions before using the machine.

5.1.2 Keep your work area clean, Cluttered areas and benches can cause accidents.

5.1.3 Check your work as follows.

5.1.3.1 Place the compressor where it will not get wet i.e. outside in the rain.

5.1.3.2 Do not use the compressor in the damp or wet conditions.

5.1.3.3 Provide and use adequate lighting.

5.1.3.4 Always use the compressor far away from the flammable liquids or gases.

5.1.3.4 Avoid body contact with metal objects such as pipes, radiators etc.

5.1.4 Keep children, ill and infirm persons away from the working area.

5.1.5 Do not allow other people to touch the compressor or cable, keep them away from your work area.

5.1.6 Keep your compressor safe, when not being used the compressor should be kept in a dry and locked room and it must be out of reach of children.

5.1.7 Do not overload your compressor.

5.1.7.1 At normal load, the compressor works better and safely.

5.1.8 Wear the appropriate work clothes.

5.1.8.1 Do not wear the loose clothes or jewellery. Otherwise, you may get entangled by the moving parts.


5.1.8.2 When working outdoors, rubber gloves and sturdy shoes are recommended. If you have long hair, wear a hair net.

5.1.9 DO NOT mis-use the electrical supply cable.

5.1.9.1 When you have finished working disconnect the compressor by switching it off at the supply socket, then unplug the compressor from the power source.

5.1.9.2 Keep the electrical supply cable of the compressor away from heat, oil and sharp edges.

- 5.1.10 Maintain your compressor with care.
 - 5.1.10.1 Keep your compressor clean.
 - 5.1.10.2 Follow the maintenance instructions.
 - 5.1.10.3 Regularly check the plug and electrical supply lead.
 - 5.1.10.4 Any damaged parts should be dealt with by a qualified person.
 - 5.1.10.5 Inspect extension supply leads periodically and replace them if they are found damaged.
- 5.1.11 Avoid accidental starting.
 - 5.1.11.1 Make sure that the switch is off when it is disconnected from the main supply.
- 5.1.12 Use of extension of leads outdoors.
 - 5.1.12.1 When used outdoors (in dry conditions), the extension lead must be approved and marked. It must also be protected by the use of an RCD.
- 5.1.13 Stay alert.
 - 5.1.13.1 Concentrate on your work.
 - 5.1.13.2 Use common sense.
 - 5.1.13.3 DO NOT use the compressor when you are distracted.
- 5.1.14 Check your compressor before use to prevent damage.
 - 5.1.14.1 Before using, double check the compressor's parts, and make sure all functions of the compressor are in good order and function correctly.
 - 5.1.14.2 Check that all the functional parts are fine; make sure no part is damaged.
 - 5.1.14.3 All parts must be installed correctly and the device must be checked and be in good working condition.
 - 5.1.14.4 Any broken/missing parts should be properly repaired/replaced by a qualified person.
 - 5.1.14.5 If the main supply switch or on/off switches are broken they MUST be immediately replaced.
 - 5.1.14.6 DO NOT use the compressor if it cannot be switched off.
- 5.1.15 Accessories and attachments.
 - 5.1.15.1 For your own safety, use only the accessories and attachments that are specified in the manual or recommended by the manufacturer. Use of other accessories and attachments that are not recommended in the manual can cause you personal injury.
- 5.1.16 Electrical repairs should only be carried out by a qualified electrician. Repairs done by a non-qualified person may lead to accident or injury. If the electrical supply cable is damaged, it must be replaced by the manufacturer or a qualified electrician in order to avoid a hazard.
- 5.1.17 Noise.
 - 5.1.17.1 When using the compressor hearing protection MUST be worn.

 **WARNING** There will be a risk of inhaling noxious fumes, mists and vapours.

5.2 Safety instructions for the operation of the compressed air and blow guns.

5.2.1 The compressor reaches a high temperature during operation. Touching it when hot can lead to burns.

5.2.2 The compressor must not be allowed to take in impurities in the air; otherwise it will lead to fire or explosion.

5.2.3 When loosening the hose coupling, it should be held by both hands to avoid injury.

5.2.4 When operating the blow gun, safety glasses **MUST** be worn. The flying foreign objects and parts can lead to injury.

5.2.5 Any person in operating the blow gun should wear the protective clothing.

5.3 Safety when spraying paint.

5.3.1 Do not use paints or solvents with a flash point less than 21 °C.

5.3.2 Paints and solvents must not be heated.

5.3.3 To avoid inhaling harmful liquid vapours you **MUST** wear face mask protection. You should adhere to the information provided by the manufacturers of these devices for additional measures.

5.3.4 **DO NOT** smoke in the working area and whilst using the compressor.

5.3.5 **DO NOT** allow any sources of ignition such as matches, lighters, naked flames and any other sources of ignition such as sparks from grinding etc.

5.3.6 **DO NOT** eat or drink the work area.

5.3.7 Paint fumes are harmful. The work area must be greater than 30 m² and it is necessary to ensure the sufficient air exchange during spraying and drying. Do not spray against the wind. Always pay attention when spraying on the flammable or dangerous goods, spraying must be carried out with regard to all safety regulations..

5.3.8 **DO NOT** allow PVC hoses to come into contact with white spirit, butyl alcohol and methylene chloride, it will cause a reduced lifetime.

5.4 Pressure tank.

5.4.1 The tank should be kept in good conditions. Monitor any damage. Any necessary maintenance and repair work must be done without delay and necessary safety measures to prevent use until repairs take place should be taken.

5.4.2 **DO NOT** use the tank if it is damaged or has any defects.

5.4.3 The tank should be regularly checked for damage or corrosion. When any damage or corrosion is found you **MUST** stop using machine until repair/s have been carried out.

6. INSTALLATION & COMISSIONING.

⚠ WARNING

Before commissioning, all parts should be completely installed.

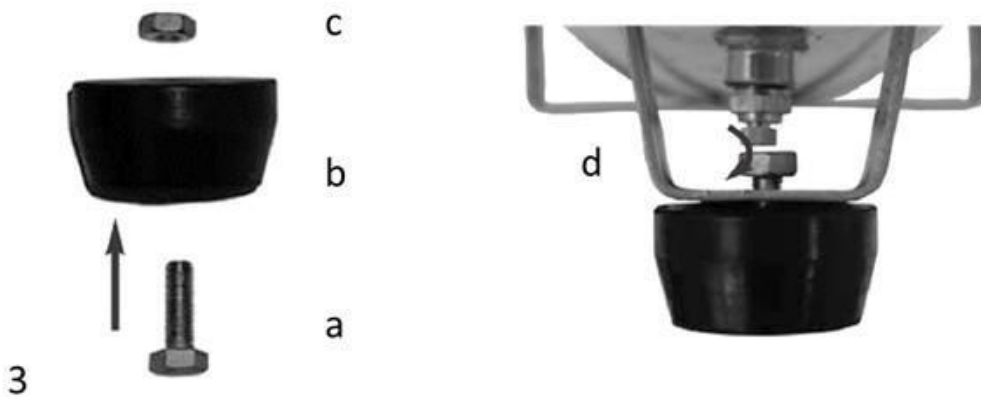
6.1 Installation of the wheels and foot.

6.1.1 Select parts as shown in image below (1).



6.1.2 Assemble as shown in (1)(2) by taking bolt (a) and pushing it through the centre hole of wheel (b), then put washer over protruding bolt (a). Then pass bolt through wheel frame (g), next put washers (d) and (e) over bolt, finally secure the bolt using nut (f). DO NOT overtighten the bolt, the wheel must be left free to spin on the bolt (axle).

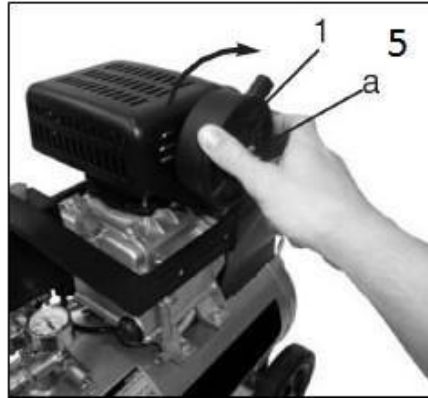
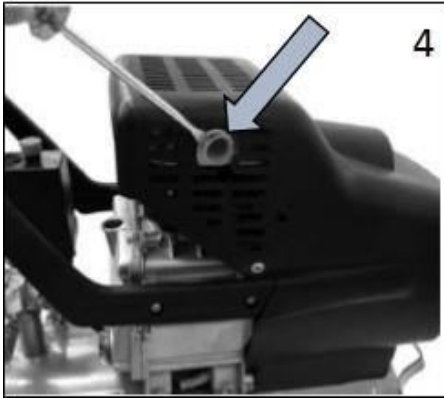
6.1.3 Using parts provided (shown in image (3)) below.



6.1.4. Assemble as shown in (3) take bolt (a) and pushing it through the centre hole of foot (b), push protruding bolt through frame (d) then finally secure the bolt using nut (c). Make sure that the nut and bolt are tightened to prevent the foot coming loose. DO NOT Overtighten.

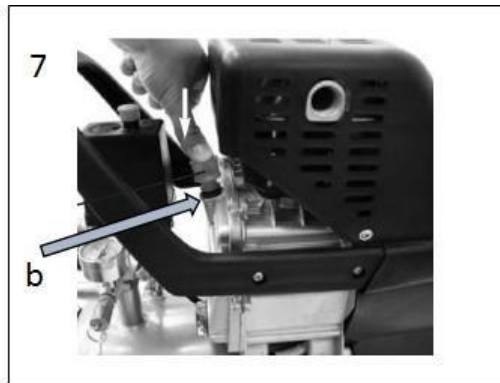
6.2 Installation (replacing) of the air filter.

6.2.1 .1 Remove the shipping plug (Picture 4) with a screwdriver or a similar tool. Unscrew the air filter (1) with the wing nut (a) attached to the machine (Picture 5).



6.3 Filling with oil.

6.3.1 Use a screwdriver to remove the oil filler cap (Picture 6 (a)) and fill with oil into machine as shown (b) in the oil filler (Picture 7).



6.4 Electrical connections..

6.4.1 The compressor is supplied with a power lead to three pin earthed plug. This can be connected to any power socket 230V ~ 50Hz, which is protected by a 16A electrical supply.

6.4.2 Before running the machine for the first time, please make sure that long supply cable, extension cables, etc, are sufficient to supply the compressor without voltage drop which can prevent the motor from starting.

6.4.3 We do not guarantee the performance and motor running at temperatures be low temperature of 5 °C .

6.5 Turning the compressor ON/OFF.

6.5.1 By pulling the red button (page 5 item 7) the compressor will be turned ON.

6.5.2 To switch it OFF , push the red button (page 5 item 7).

6.6 Quick release coupling.

6.6.1 Connecting - Pull the hose connection sleeve back then push the air hose coupling into the quick release coupling sleeve. Once the sleeve is released it will automatically back to lock the coupler in place.

6.6.2 Dis-connecting - Pull the hose connection sleeve back then pull the air hose coupling from the quick release coupling sleeve. Once the sleeve is released it will automatically return to its normal position.

7. TECHNICAL DATA.

7.1 Technical data for HY2524.

Model	HY2524
Voltage - V	230
Number of phases	1
Frequency – Hz	50
Connection method/Cable length m	3 pin plug - BS1363A/1.3
Motor power hp/kw	2.5/1.865
Rated Speed (motor) – RPM	2800
Cubic Foot per Minute @ 6.2 Bar	N/A
Maximum Pressure - PSi/Bar	145/10
Cut-out Pressure - PSi/Bar	128/8.8
Cut-in Pressure - PSi/Bar	87/6
Tank Capacity - L	24
Free air delivery - CFM - L/min	5.19/147
Displacement - CFM/L/min	7.42/210
Air Outlet	Machine - Male 3/8" tapered quick release euro/Hose - Male 3/8" euro coupling
Output pressure regulation type	Adjustable
Drive type	Direct
Overall Unit Dimensions L x W x H mm	650 x 280 x 580
Net Weight - kg	28
Tank material	Rolled steel

8. CLEANING & MAINTENANCE.

CAUTION

Before any cleaning or maintenance work, the compressor should be disconnected from the mains supply.

To prevent the risk of burning, wait until the compressor is completely cool.

8.1 Cleaning.

8.1.2 Keep the compressor clean/clear of as much dust and dirt as possible.

8.2.3 Wipe the equipment with a clean cloth or blow it with the air compressor at a low pressure.

8.3.4 We recommend that you clean the device immediately after each use.

8.4.6 Clean regularly with a damp cloth and some soft soap.

8.5.7 Do not use detergents or solvents to clean the device. They may damage the plastic parts of the device.

8.6.8 Make sure that no water gets inside the unit. If water does get inside you **MUST** make sure that unit is completely dry before applying power.

8.2 Condensation.

CAUTION

Condensation inside the tank may contain the oil residues. Dispose of the condensation in an environmentally friendly way. DO NOT put it down the drain or onto the ground.

8.2.1 You MUST remove condensed water is daily.

8.2.2 This can be achieved by opening the condensation drain plug at the bottom of the compressor.

8.3 Safety valve.

8.3.1 The safety valve has been factory set to the maximum pressure of the tank. DO NOT attempt to adjust or remove. If there is a problem you must get it checked - contact your dealer for advice.

8.4 Oil Level.

9.4.1 The oil level (6) must be visible between the red oil level and the top edge of the oil level indicator. Recommended oil: SAE 15W/40 or its equivalent.

9.4.2 The initial oil level should be checked after 100 hours of operation.

9.4.3 After every 500 hours of operation you MUST drain the oil and refill with new oil.

8.5 Oil change.

9.5.1 Turn off the compressor and disconnect from the electrical supply.

9.5.2 Release all air pressure from the air tank.

9.5.3 Place a suitable container underneath the compressor to catch the oil.

9.5.4 Unscrew the oil drain bolt on the compressor pump so that the oil runs out.

9.5.5 If the oil does not completely run out, we recommend the compressor is leant over in the direction of the drain plug.

9.5.6 Once all of the old oil has been drained, you can replace the oil drain bolt.

9.5.7 Pour new oil into the oil filler hole (page 11 picture 6), until the oil level in the visible glass (6) has reached the red point. Once the correct level of oil has been put in replace the oil plug.

9.5.8 DO NOT put unused oil down any drain or onto the ground.

8.6 Cleaning the air filter.

9.6.1 The filter prevents dust and dirt from getting into the machine.

9.6.2 It is necessary to clean these filters at least every 300 hours.

9.6.3 Blocked air filter significantly reduces the output of the compressor. 9.6.4 Remove the filter from the compressor by following 6.2.

9.6.5 Clean air filter by blowing it clean with the air compressor at a low pressure (3 bars).

8.7 Storage.

CAUTION

Disconnect the compressor from the electrical supply by switching off and unplugging the supply plug.

9.7.1 Purge compressor of all compressed air.

9.7.2 Store compressor in a secure location away from children and vulnerable persons.

9.7.3 Keep compressor in a clean and dry location. It must be kept upright.

9. DISPOSAL & RECYLING.

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.

19.2 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. TROUBLESHOOTING.

<u>Problems</u>	<u>Reasons</u>	<u>Solutions</u>
Compressor does not run.	<ol style="list-style-type: none"> 1. Voltage cuts off. 2. The main voltage is too low. 3. External temperature is too low. 4. Motor overheats. 	<ol style="list-style-type: none"> 1. Check cable, plug, fuse and outlet. 2. Avoid the long extension cords. Use the cable with the sufficient wire cross section. 3. Not operate below 5 °C 4. Cooling down the motor may eliminate the failure.
Compressor runs but has no pressure.	<ol style="list-style-type: none"> 1. The valve (18) leaks 2. The seal is broken. 3. The condensation drain plug (4) has become loose. 	<ol style="list-style-type: none"> 1. Replace check valve. 2. Get broken seal replaced by a specialist. 3. Tighten the screw by hands. Check the seals on the screw and replace it if necessary.
Compressor is running, pressure is displayed on the gauge, but tools do not run.	<ol style="list-style-type: none"> 1. Hose connections leak. 2. Quick release coupling leak. 3. The pressure is set too low 	<ol style="list-style-type: none"> 1. Check the compressed air hose and tool, replace them if necessary. 2. Check the quick release connections and replace them if necessary. 3. Increase the pressure regulator adjustment knob. Check for hose leak between regulator and tool.

11. . GENPOWER CONTACT DETAILS.

11.1 1 Postal address;

Genpower Limited, Isaac Way, Pembroke Dock, Pembrokeshire, SA72 4RW, UK.

11.2 2 Telephone and Fax contact

numbers; Office +44 (0) 1646
687880.

Fax +44 (0) 1646 686198.

11.3 3 Email contact;

Technical - service@genpower.co.uk

11.4 4 Web site;

www.hyundaipowerequipment.co.uk

12. DECLARATIONS of CONFORMITY.

12.1 Genpower Ltd confirms that this Hyundai product conform to the following CE directives.

2002/95/EC Restriction of Hazardous Substances

2004/108/EC EMC Directive

2006/42/EC Machinery Directive

2006/95/EC Low Voltage Directive

2009/105/EC Simple Pressure Directive

2000/14/EC Outdoor Noise Directive

EC DECLARATION OF CONFORMITY

The undersigned, as authorised by: Genpower Ltd

Declares that the following equipment manufactured under licence by Hyundai Korea

Conforms to the Directive: -

2000/14/EC (as amended)

of the European Parliament and of the council on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.

Equipment Category: Compressor
Product Name/Model: Hyundai HY2524
Type/Serial No: Electric Direct Drive 24L Air Compressor
Net installed power: 1.5kW
The technical documentation is kept by: Roland Llewelin, Genpower Ltd,
Isaac Way, Pembroke Dock,
Pembrokeshire, SA72 4RW.

The conformity assessment procedure followed was in according with annex VI of the Directive.

Notified Body: TÜV SÜD Industrie Service GmbH,
Service GmbH, Westenstrasse 199,
80686 MÜNCHEN, Deutschland.
Certification n° OR/015514/001

Measured Sound Power Level: 97dB(A)

Guaranteed Sound Power Level: 97dB(A)

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

Place of Declaration: Pembroke Dock, SA72 4RW.

Date: 09/04/2014
Signed by: Roland Llewelin
Position in Company: Director
Name and address of manufacturer or Authorised representative:



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

HYUNDAI

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