

Diesel Generator

# DHY8500SELR

User Manual



**FOR YOUR SAFETY**  
You must Read and understand  
this manual before use.  
Keep this manual for future  
reference.



# HYUNDAI

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# 1. ACKNOWLEDGEMENT

**THANK YOU** for purchasing this Hyundai Diesel Generator. To get the most out of your purchase, please read the manual before using the Generator, in order to familiarise yourself with this product and after reading, please keep this manual for future reference. Failure to follow the proper protocols listed in the manual may cause personal injury to the operator or damage to equipment.

[www.hyundaipowerproducts.co.uk](http://www.hyundaipowerproducts.co.uk)

## 2. CONTENTS

<b>SAFETY</b>	<b>4</b>
<b>PREPARATION</b>	<b>12</b>
<b>OPERATION</b>	<b>12</b>
<b>STARTING PROCEDURE</b>	<b>14</b>
<b>SHUTDOWN PROCEDURE</b>	<b>16</b>
<b>USING THE GENERATOR</b>	<b>17</b>
<b>EMERGENCY SHUTDOWN</b>	<b>17</b>
<b>MAINTENANCE</b>	<b>18</b>
<b>AIR FILTER</b>	<b>20</b>
<b>BATTERY</b>	<b>21</b>
<b>STORAGE</b>	<b>21</b>
<b>TRANSPORTATION</b>	<b>21</b>
<b>TROUBLESHOOTING</b>	<b>22</b>
<b>SPECIFICATION</b>	<b>23</b>
<b>DECLARATIONS OF CONFORMITY</b>	<b>24</b>
<b>RECYCLING</b>	<b>24</b>
<b>CONTACT</b>	<b>25</b>
<b>WARRANTY</b>	<b>25</b>

### 3. SAFETY

#### 31 GENERAL SAFETY NOTES

- 32 The operator of the machine is responsible for, and has a duty of care in making sure that the machine is operated safely and in accordance with the instructions in this user manual. Keep the manual safe and pass it on if the machine is loaned or sold to another user.
- 33 Please note the following safety points.
- 34 The machine should never be left in a condition which would allow an untrained or unauthorised person/s to operate this machine.
- 35 All due care and diligence should be taken by the operator for the safety of, and with regard to those around whilst using the machine.
- 36 Some or all of the following - warning signs, symbols and/or PPE pictograms may appear throughout this manual. You **MUST** adhere to their warnings. Failure to do so may result in personal injury to yourself or those around you.



## DANGER

Indicates a hazard, which, if not avoided, could result in serious injury or death.



## WARNING

Indicates a hazard, which, if not avoided, could result in serious injury.



## CAUTION

Indicates a hazard which, if not avoided, might result in minor or moderate injury.



## NOTE

Indicates a situation that could easily result in equipment damage.

**READ** and keep the manual safe and pass it on if the machine is loaned or sold to another user. You **MUST** fully read instructions to make sure you use and operate machine safely.

Appropriate Personal Protective Equipment (PPE), **MUST** be worn at all times when machine is in use or being repaired.



HAND PROTECTION MUST BE WORN



EYE PROTECTION MUST BE WORN



PROTECTIVE CLOTHING MUST BE WORN



HEARING PROTECTION MUST BE WORN



FOOT PROTECTION MUST BE WORN



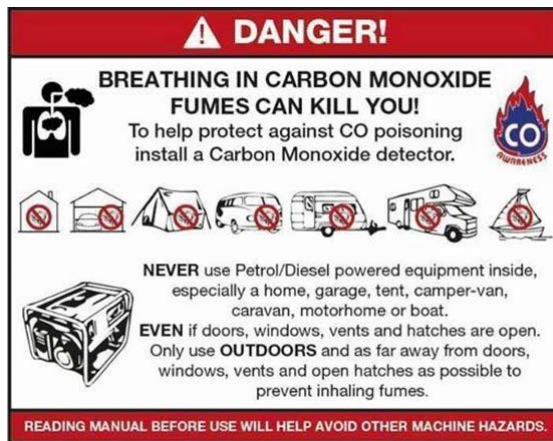
HEAD PROTECTION MUST BE WORN



RESPIRATOR MUST BE WORN



FACE SHIELD MUST BE WORN

**CARBON MONOXIDE** (where applicable).

38 Carbon monoxide is a colourless and odourless gas. Inhaling this gas can cause death as well as serious long term health problems such as brain damage.

39 The symptoms of carbon monoxide poisoning can include but are not limited to the following; Headaches, dizziness, nausea, breathlessness, collapsing or loss of consciousness.

310 Carbon monoxide poisoning symptoms are similar to flu, food poisoning, viral infections and simply tiredness. It is quite common for people to mistake this very dangerous poisoning for something else.

311 To avoid carbon monoxide poisoning **DO NOT** use Petrol/Diesel powered equipment inside any of the following; home, garage, tent, camper van, mobile home, caravan or boat. This list is not exhaustive and if you are in any doubt contact your dealer.

312 If you think you have or someone around you has been affected by carbon monoxide poisoning;

313 Get them fresh air immediately, by leaving the affected area or by opening doors and windows. If safe and practical to do so make sure that the machine is turned off. **DO NOT** enter a room you suspect of having carbon monoxide present – instead call the emergency services.

314 Contact a doctor immediately or go to hospital - let them know that you suspect carbon monoxide poisoning.

315 **DO NOT** use in an enclosed area or a moving vehicle.

316 **GENERAL FUEL SAFETY** (where applicable).

317

## **CAUTION**

### **ALL FUELS ARE FLAMMABLE**

318 Fire hazard - keep fuel away from all sources of ignition for example heaters, lamps, sparks from grinding or welding.

319 Pay attention when handling fuel. Petrol is flammable and the vapors are highly explosive.

320 Never remove the fuel cap or add fuel with the engine running. Stop the engine and allow to cool before refueling. Never fuel machine indoors or in a confined space. **DO NOT** overfill with petrol – always leave a 15mm gap at the top of the fuel tank.

321 **DO NOT** smoke while adding fuel or around machine while operating.

322 Fill your engine with SAE10w-30/15w-40 engine oil before use or serious damage will occur.

323 Never refuel or store the machine in a place where there is open flame, spark or other forms of open flames or ignition.

324 **DO NOT** attempt to start the engine if fuel is spilled. Wipe away the spillage and ensure all fuel has dried before starting the machine.

325 **ALWAYS** make sure the fuel cap is securely tightened and replaced before starting.

326 If the fuel tank needs to be drained, it should be done outdoors and into an approved container.



**DO NOT** carry out hot work on tanks that have contained fuel it is extremely dangerous.

328 **ALWAYS** keep work area clean and tidy.

329 **ALWAYS** clean up all spills promptly using correct methods i.e. absorbent granules and a lidded bin.

330 **ALWAYS** dispose of waste fuels correctly.

331 FUELING/DE-FUELING (where applicable).

332  **CAUTION**

**ALL FUELS ARE FLAMMABLE**


333 **ALWAYS** fuel and defuel in a well-ventilated area outside of buildings.

334 **ALWAYS** wear correct, suitable and fit for purpose Personal Protective Equipment (PPE), suggested items are but not limited to safety gloves and overalls.



335 When fueling/de-fueling **ALWAYS** avoid inhaling fumes.

336 When de-fueling **ALWAYS** use a propriety fuel retriever.

337  **ALWAYS** carry fuel in the correct and clearly marked container.

338 **ELECTRICAL SAFETY** (where applicable).

339 Electricity can kill - **NEVER** work on LIVE/ENERGISED equipment.


340 Prior to carrying out any maintenance work you **MUST** Identify electrical isolation methods and isolate all electrical supplies,

341 Prior to use and with all electrical supplies isolated You **MUST** check all electrical cables, plugs and connections for the following;

342 Are intact and have no signs of damage, to include but not limited to bare wires, chaffing, cuts and loose wiring.

343 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.

344 All trailing cables should be routed so as not to cause any kind of trip hazard.

345  **NEVER** work on or near electricity with wet hands, wet clothing, and wet gloves.

Risk of electric shock

346 **BATTERIES** (*where present*).

347 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 liquid or gel form.

348 Should you come into contact with electrolyte you should;

349 Remove all clothing contaminated with electrolyte. If you cannot remove then saturate in water.

350 Get medical assistance as soon as possible. You must advise the medical staff of the type acid.

351 Lead/acid battery = dilute sulfuric acid

352 Nickel/cadmium = potassium hydroxide alkali electrolyte.

353 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 the face or body.

354 If electrolyte comes into 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 the face or body.

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

356 There is an explosion risk if the battery terminals are short circuited, when connecting / Odis-connecting **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.



357 **VIBRATIONS** (*where applicable*).

358 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.

359 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 the white finger and carpal tunnel syndrome:

360 Wear gloves and keep your hands warm.

361 Take regular breaks.

362 All of the above precautions may help reduce the risk of white finger disease but not rule out 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.



363 **NOISE** (*where applicable*).

364 The operating noise of the machine can damage your hearing. Wear hearing 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 hearing protection because your ability to hear alarm warnings will be reduced.

365 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.

366  See **CERTIFICATE of CONFORMITY** section for Outdoor Noise declaration of conformity.

### 367 **MACHINE SPECIFIC SAFETY**

368 The engine and exhaust will become very hot during use do not touch, these items remain hot for some time after use.

369 Avoid operating the engine with a dust cover.

370 **DO NOT** connect the generator to mains AC socket in your building – commonly known as ‘back feeding’ it is extremely dangerous and illegal.

371 Keep the generator at least 1m from buildings or other equipment, or the engine may overheat.

372 The object of this manual is to help you use your machine safely and to give you information about how to maintain your machine. Please read the manual carefully before attempting to use the machine.

373 If after reading the user manual you are still unsure about the safety risks associated with use of the machine, you should not use the machine. Please contact your dealer for more information.

374 These safety instructions only address the basics for safe use. It would be impossible in the safety instructions to describe all possible risk situations that could arise when using the machine. You can, however, prevent accidents by always using common sense.

375 To obtain extra copies of the user manual, please contact your dealer.

### 376 **USAGE RESTRICTIONS**

377 The generator can be dangerous if used incorrectly or without due care and can lead to serious accidents, in the worst cases even fatal accidents. It is very important that you read this user manual and understand the instructions before you attempt to use the machine.

378 Under no circumstances may the original design of the machine be modified without written approval from the manufacturer. Such modifications not only affect the performance and durability of the machine but many even pose a safety risk for users and those in the vicinity. Unauthorised modifications to the design of the machine may absolve the manufacturer from liability for any resulting personal injury or property damage. Modifying the machine without written approval from the manufacturer may void the guarantee.

379 Follow all safety instructions. Failure may result in injury to yourself or others.

- 380 Accident prevention regulations, other general safety regulation, occupational safety rules and traffic regulation must be followed without fail.
- 381 All users **MUST** be trained in use of the machine. The owner is responsible for training users.
- 382 You **MUST** use an authorised workshop for all service and repairs not described in this manual.
- 383 You **MUST** learn how to use the machine and its controls safely and learn to recognise the safely labels.
- 384 Check that the machine is in a serviceable condition prior to use.
- 385 Only use the machine in daylight or in other well-lit conditions. Keep the machine a safe distance from holes or other irregularities in the ground. Pay attention to other all other possible risks.
- 386 Only allow the machine to be used by adults who are trained in its use.
- 387 **NEVER** allow children or persons not trained in the use of the machine to use or service it local by- laws may regulate the age of the user.
- 388 People and animals can distract you causing you to lose control of the machine. For this reason, you should always concentrate and focus on the task at hand.
- 389 **NEVER** leave the machine unsupervised with the engine running. You **MUST** always disable machine to stop others using it in your absence.
- 390 You **MUST** make sure that there is always another person in the safe vicinity of your work area so that help is available should an emergency arise.
- 391 The machine is tested and approved only with the equipment originally provided or recommended by the manufacturer.
- 392 The engine can become very hot. To avoid being burned, you must turn off the engine and wait until all parts have sufficiently cooled before touching the engine or exhaust.
- 393 Overexposure to vibration may lead circulatory or nerve damage, particularly in people who have impaired circulation. Contact your doctor if you experience symptoms that could have been caused by overexposure to vibration. Examples of common symptoms include numbness, pain, muscle weakness, change of skin color or an uncomfortable feeling of tingling. These symptoms appear most frequently in the fingers, hands or wrists.
- 394 **NEVER** use a generator that is damaged or incorrectly adjusted. **NEVER** use the generator if any component is missing or if it is not properly assembled. **ALWAYS** check that the cutting tools stop rotating when you fully reduce the throttle. If you find yourself in a situation where you are not sure what to do, you **MUST** always seek expert assistance. **DO NOT** try to solve any problem you are not qualified to resolve.
- 395 You **MUST** always wear appropriate personal protective equipment.

## ADDITIONAL SAFETY NOTES

- 396 The user of this machine **MUST** be over 18 years of age.
- 397 The machine should be positioned on a firm and level surface.
- 398 When working in a confined area, always make sure there is sufficient space around the machine to reduce the risk of injury and there is good ventilation from exhaust fumes.
- 399 Only one person at a time should operate the machine.
- 3100 Use only original parts for maintaining your generator, otherwise the warranty will be void.
- 3101 The generator should **ONLY** be repaired by a skilled dealer / service-point.
- 3102 When in operation the generator noise will exceed 90 dB (A). Therefore all users and onlookers must wear ear-protection.
- 3103 Keep the operation area clean and free from foreign objects.
- 3104 **DO NOT** operate the generator in the presence of flammable liquids, gas or dust.
- 3105 Keep Children, bystanders and pets away whilst operating the generator. Keep the area free of all distractions.
- 3106 Only responsible, properly instructed individuals should operate this machine.
- 3107 Inexperienced operators must always be supervised by an experienced operator.
- 3108 Don't make any alterations or modifications to your generator.

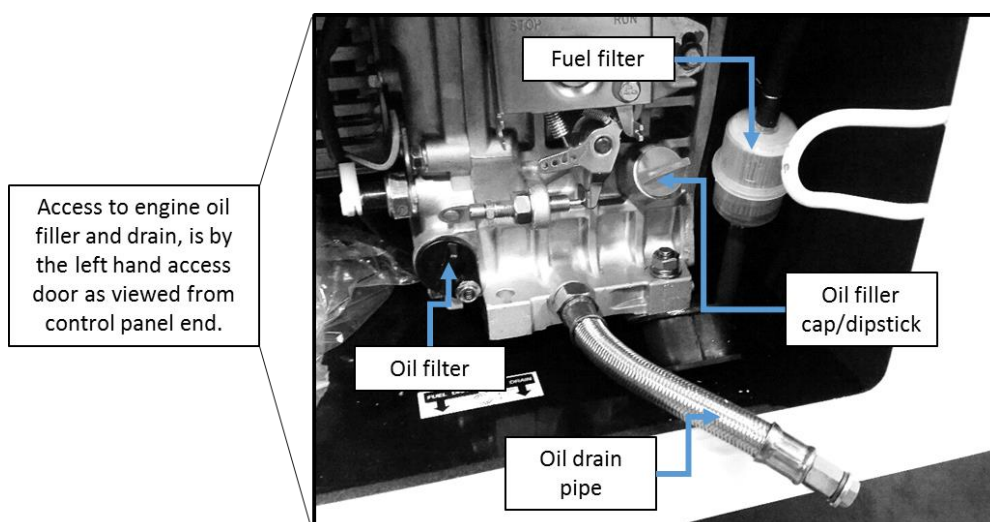
## 4. PREPARATIONS

- 41 This manual is meant to serve as a quick reference for operating your diesel generator it is for convenience and the user should read the safety section first (*pages 4-11*). This generator produces carbon monoxide a poisonous, colourless and odourless gas that can cause death or serious injury. Always handle with extreme care and in a well ventilated area.
- 42 Always remove the ignition key and disconnect the battery before carrying out any maintenance, which includes filling machine with oil and diesel fuel.
- 43 This product comes fully assembled and carefully packaged and includes user manual and warranty registration form.
- 44 **DO NOT** refill the fuel tank while the engine is running or HOT.
- 45 **DO NOT** smoke or allow flames or sparks in the area where the engine is refueled or here the fuel is stored.
- 46 **DO NOT** overfill the diesel tank and make sure the filler cap is securely closed after refueling.
- 47 Take care not to spill fuel when refueling. If any fuel is spilled, make sure the area is clean and dry before starting the engine.

## 5. OPERATION

### ADDING OIL & DIESEL TO THE ENGINE

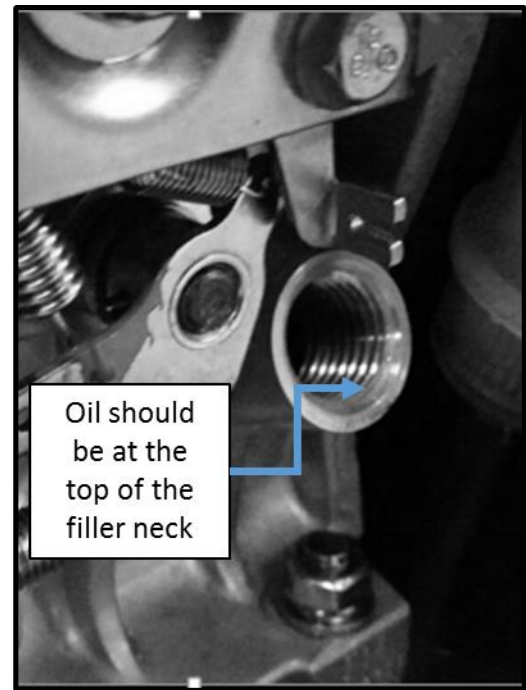
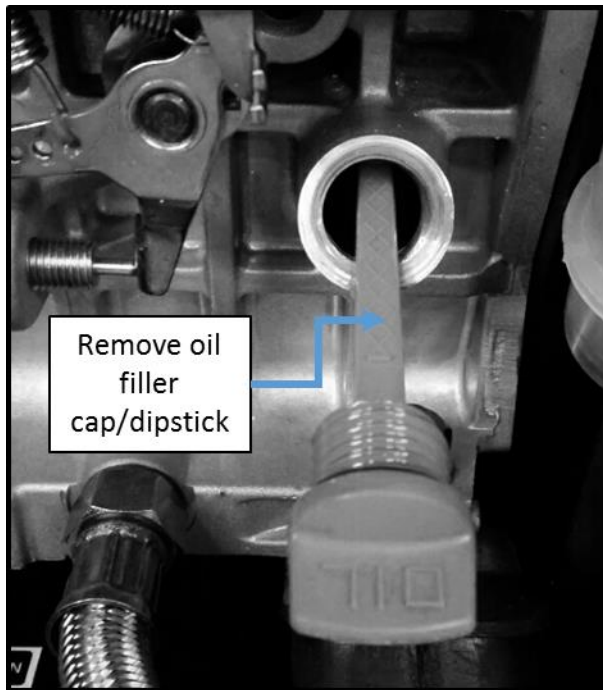
- 51 This generator is shipped with oil, however **DO NOT** start the machine until the correct oil level has been determined.
- 52 **DO NOT** change or add engine oil just after the engine has been running, the oil will be HOT and will be a burn/scald hazard. You should however drain the oil whilst the engine is still warm so the oil drains fully.
- 53 To add oil you **MUST** make sure that the generator is on a flat level and stable surface. Remove the oil filler cap/dipstick, using a suitable funnel fill with oil to the top of the oil filler thread. From empty the engine takes **1.75L** of **SAE15W30 / SAE15W40** oil. Once the engine has been filled with oil securely replace the oil filler cap/dipstick. Make sure that any spills are properly cleaned up before starting the machine. To remove any excess oil place an oil collection pan and undo the nut at the end of the oil drain pipe.



**N.B.** The engine may contain oil from its pre delivery inspection – be careful not to overfill.

54

To ensure the generator maintains optimum performance and long life change the oil after the first 20 hours, then every 100 hours use. If the incorrect engine oil is used or the engine oil is not replaced every 100 hours as required the risk of crankshaft bearing failure, piston seizure, piston ring sticking and accelerated wear of the cylinder liner, main bearing and failure of other moving components increase significantly. The generator lifespan will be greatly reduced if oil level is not checked daily and oil is not changed every 100 hours.



55

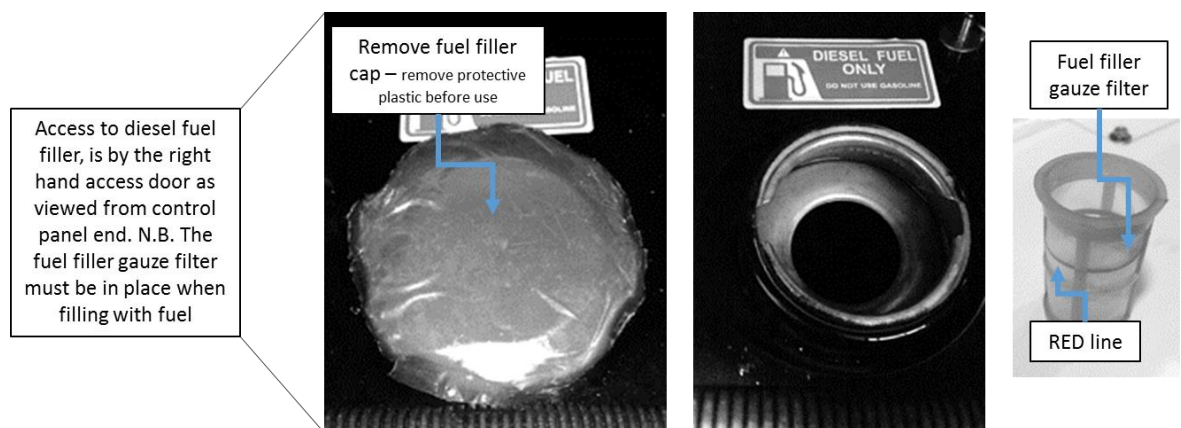
**DO NOT** add fuel or remove fuel just after the engine has been running, you **MUST** allow the engine to cool fully before carrying out this task.

56

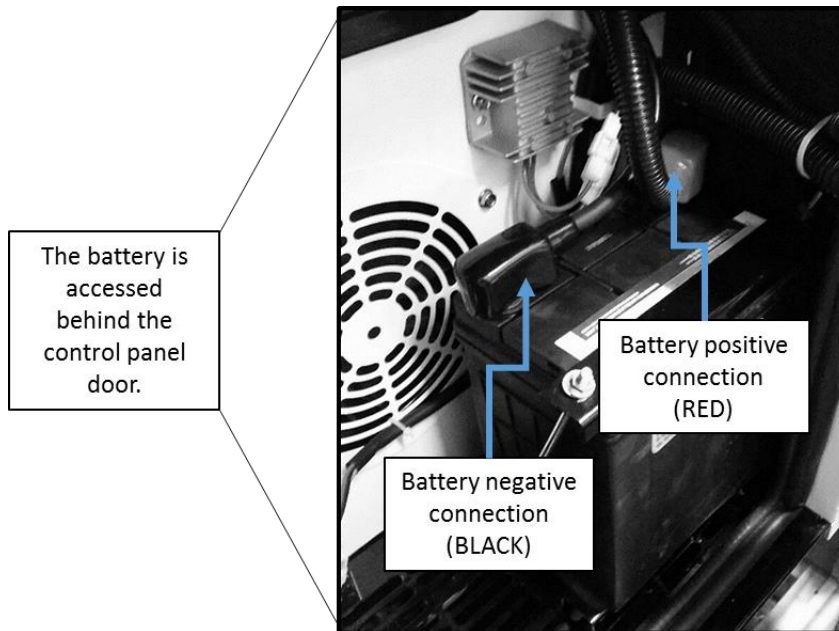
Only use standard specification diesel this can be RED or WHITE.

57

When filling the fuel tank from a drum, make sure that no dust or water is mixed in with the fuel. This can cause serious damage to the fuel injection pump or the injector nozzle.



58 The battery negative (*BLACK*) cable has been disconnected prior to shipping. Once the machine has been checked and filled with both oil and diesel you can then connect the (*BLACK*) negative cable. We advise that you use an insulated spanner to do this to prevent accidental shorting between the *POSITIVE* & *NEGATIVE* terminal of the battery.



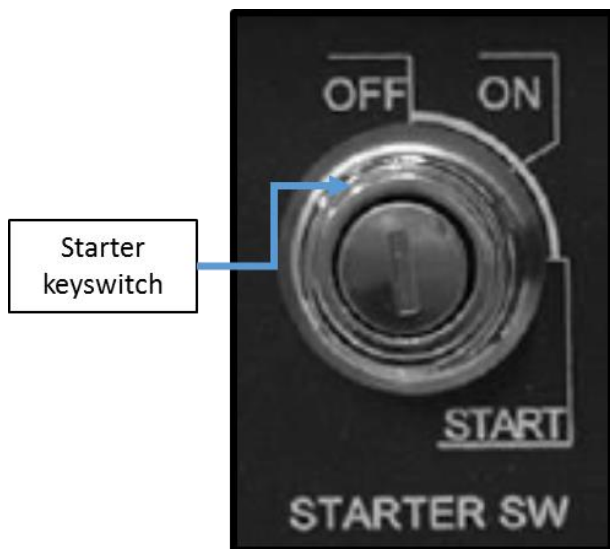
- 59 **DO NOT** use the machine if you are tired, consumed alcohol, or if you are taking other drugs or medication that can affect your vision, judgement or coordination.
- 510 **NEVER** use the machine indoors or in spaces lacking proper ventilation.
- 511 Naked flames or sparks in the vicinity of the machine are strictly forbidden. Diesel is flammable and carelessness in handling can result in personal injury or fire.
- 512 **NEVER** use a machine with a defective exhaust/muffler.

## 6. STARTING PROCEDURE

61 The machine is shipped without fuel, therefore you **MUST** fill the engine with fuel and check that the engine has correct level of oil before starting the engine. Failure to do so will result in engine damage which will not be covered by manufacturer's warranty.

### STARTING THE ENGINE

62 To start the generator turn the key switch clockwise to the ON position, the control panel will illuminate. Turn the key switch against spring tension to the START position until the engine starts. **DO NOT** hold the key in the START for longer than 10 seconds, if the engine does not start wait 15 seconds before retrying. Excessive start attempts will cause the battery to discharge and damage the starter motor. You **MUST** allow the engine to warm up a few minutes before applying any load. If the engine does not start see the trouble shooting section of the manual. Leave the key in the ON position.



### APPLYING LOADS

- 63 Before applying any load you must allow the engine to warm up for a few minutes. Check that the digital display is reading 230 volts +5% at 50 Hz. You must make sure that all appliances that are to be connected are in good working condition. **DO NOT** apply more than one load at a time.
- 64 Connect larger loads first, N.B. motors will draw large currents on initial start-up, and allow them to settle down before applying successive loads.
- 65 You can display each parameter by successive presses of the mode button. The total hours run will only display when engine is running.

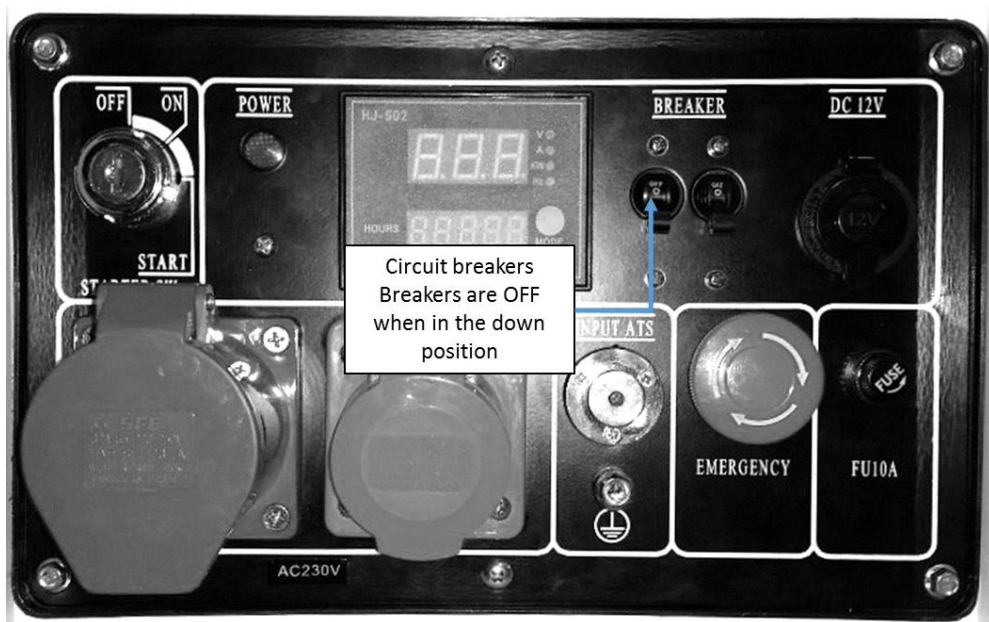


- 66 Electrical appliances, particularly motor driven equipment, will have a very high startup current. The table below provides reference for connecting these appliances to the generator.

TYPE	Wattage		Typical appliance	Example		
	Starting	Rated		Appliance	Starting	Rated
Lighting	x 1	x 1	Incandescent lamp or heating appliance	Incandescent lamp 1000 watts	100 vA	100 vA
Heating appliance						
Fluourescent lamp	x 2	x 1 to 1.5	Fluourescent lamp	Fluourescent lamp	80 vA	40 to 60 vA
Motor driven equipment	x 3 to 5	x 1 to 2	Refrigerator, electric fan, compressor or grinder	Refrigerator	450 vA to 750 vA	150 vA to 30 vA

## OVERLOAD

- 67 If the generator exceeds its load capacity the circuit breaker will trip. To reset the breaker turn off and disconnect all loads. Wait a few minutes then reset the breaker and add loads to up to the rated output.



## 7. STOPPING – SHUTDOWN PROCEDURE

- 7.1 Except in an emergency **DO NOT** stop the engine suddenly or whilst under load, this can damage the Automatic Voltage Regulator (AVR)
- Turn OFF & Unplug All Loads.
  - Turn OFF all circuit breakers.
  - Allow the machine to run without any load for a minimum of three minutes.
  - Turn the starter key switch to the OFF position and to prevent any unwanted use remove the key and store in a safe place.



## 8. USING THE GENERATOR

- 81 You **MUST STOP** using the machine if any of the following occur:
- A) The engine speed changes with no control.
  - B) In case of misfire.
  - C) In case of high vibration.
  - D) In the event of overload.
- 82 If you are not familiar with this type of machine you should seek advice and guidance from your dealer. **DO NOT** attempt to lift or move the machine while the engine/generator is in use.
- 83 **DO NOT** use the machine if you are tired, have consumed alcohol, or if you are taking other drugs or medication that can affect your vision, judgement or coordination.
- 84 Keep your hands away from all moving parts.
- 85 **NEVER** use a machine with defective exhaust/muffler.
- 86 **NEVER** use the machine with defective outlet sockets.
- 87 **NEVER** use the generator with wet hands or in wet conditions.
- 88 You **MUST** observe all electrical safety precautions whilst the generator is in use.
- 89 Be sure to turn off the main breaker switch before starting. The generator should be earthed to prevent shocks. Turn off the main breaker switch and remove all loads.
- 810 Before starting the engine, be sure to switch OFF any appliances connected to it.
- 811 Ensure that the breaker switch is OFF before switching between 115v/230v.
- 812 The first 20 hours are the break in period of the engine, for this reason, it is important to follow the following instructions during this period.
- A) Warm up the engine 5 minutes after the initial starting before applying load.
  - B) Avoid applying loads above 3kw during the first 20 hours of operation.
  - C) It is important to replace the engine oil on time.
  - D) Replace the engine oil whilst the engine is warm, after 20 hours running.
  - E) Ensure the old engine oil is drained out completely

## 9. EMERGENCY SHUTDOWN PROCEDURE

- 91 In consideration of your own safety and that of others, you should always use the following normal shutdown procedures before departing from the controls for any reason including cleaning, servicing, transporting or inspecting the generator. Never deviate from this procedure unless so instructed in this manual or in an emergency that requires it.

## 10. MAINTENANCE

### **WARNING**

Always stop the engine before doing any repairs or maintenance.

Never touch the rotating parts.

Check and maintain fuel level regularly, and check engine oil daily.

At regular intervals, check the tightness of all nuts, bolts and screws.

Before doing any repairs or maintenance, you **MUST** always stop the engine and remove the key and disconnect the battery.

If the machine vibrates badly stop the machine and take it to a service dealer.

### **CAUTION**

**ALWAYS** refuel in a well-ventilated area with the engine off.

Whilst carrying out maintenance you must wear appropriate Personal Protective Equipment (PPE). Suggested PPE Sturdy footwear, work gloves and long trousers.

### **CAUTION**

**NEVER** use a “pressure washer” to clean your generator. Water can penetrate areas of the unit and cause damage to electrics and engine. The use of pressure washers will result in shortened life and reduce serviceability. Shut down the engine, wait for all moving parts to come to a complete stop and then wait for 5 minutes before performing maintenance on the machine.

#### **NOTE**

Spare parts – if a part needs replacing you **MUST** only use parts that meet the manufacturer part number specifications. Replacement parts that **DO NOT** meet specifications may result in a safety hazard or poor operation of the generator and will **VOID** the warranty. Major servicing including installation or replacement of parts should be made by a qualified service technician.

Periodic maintenance and servicing.

	Service period				
	8 hours/Daily	First month or 20 hours	Every 3 months or 100 hours	Every 6 months or 300 hours	Every year or 1000 hours
Check and replenish fuel	O				
Check and replenish engine oil	O				
Check for fuel leakage	O				
Check for oil leakage	O				
Change engine oil		O First time	O Second and thereafter		
Clean oil filter			O Clean	O Replace	
Air cleaner element replacement	More frequent in dusty conditions			O Replace	
Clean fuel filter			O Clean/replace as required	● Replace	
Check fuel injection pump				●	
Check fuel injection nozzle				●	
Check fuel pipe				● Replace as required	
Adjust valve clearance for intake and exhaust valves					●
Check intake and exhaust valves					●
Replace piston rings					●
Check condition of battery	Monthly – recharge/replace as required				

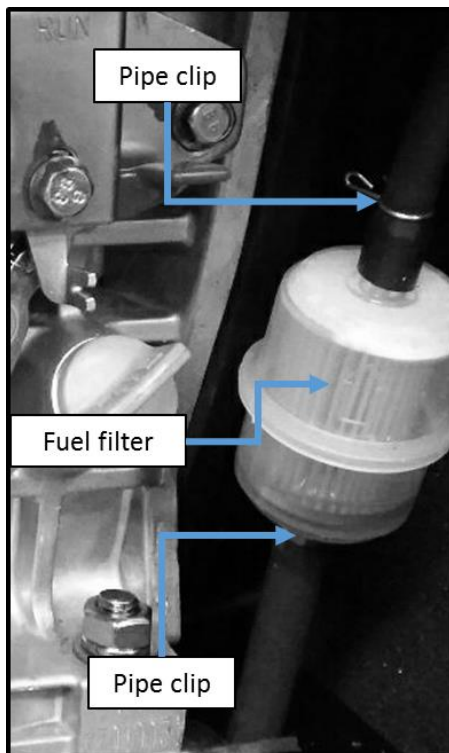
‘O’ Symbol in above chart indicates when to carry out check/s.

‘●’ Symbol in above chart indicates that special tools and skills are required – consult your dealer.

- 101 Make sure all nuts, bolts and screws are tight.
- 102 Never store the equipment with diesel in the tank and inside a building where fumes can reach an open flame or spark. Allow the engine to cool before moving the generator.
- 103 To reduce fire hazards, keep the generator and diesel storage area free of grass, dirt and excessive grease.
- 104 Replace worn or damaged parts for safety. If the fuel tank has to be drained, this should be done outdoors.
- 105 Check the oil level daily and add engine oil if required. Change engine oil every 100 hours of use or every year, whichever comes first.

## 11. AIR FILTER

- 11.1 Never let the engine run without the air filter being fitted. A dirty air filter element affects the engine performance, increases fuel consumption and makes it difficult to start. If you notice a loss of engine power, check the air filter. You **MUST** make sure that the housing is free of dust and debris **DO NOT** allow any dust or debris to enter the engine.
- 11.2 Remove the air filter cover by unscrewing the air filter cover wingnut in an anti-clockwise direction, carefully remove the cover.
- 11.3 The fuel filter has to be changed regularly to maximize the engine output. To change the fuel filter you will need to clamp the rubber pipe from the tank to prevent spillage, loosen both hose clips and remove hoses, replace filter.
- 11.4 **DO NOT** wash air filter with detergent, replace the air filter if the engine out decreases or excessive exhaust smoke is noticed.
- 11.5 **DO NOT** wash air filter with detergent, replace the air filter if the engine out decreases or excessive exhaust smoke is noticed.
- 11.6 **ALWAYS** check the generator be startup.



To remove the fuel filter – compress the upper pipe with a pipe clamp. Release the hose clip and pull pipe from the filter, put a container under end of pipe, release pipe and allow fuel to drain into the container. Repeat procedure for the lower pipe. Replace filter as required.

## 12. BATTERY

- 131 When you first install the battery, ensure that the battery's polarity is the same as the generator's battery leads.
- BLACK = NEGATIVE**  
**RED = POSITIVE**
- 132 Using a voltmeter – check the voltage is 12.5V+, if lower, the battery must be charged. Check that the voltage is correct every month. The battery should be between 12.5v and 13.6v. When the engine is running it should re-charge the battery
- 133 Make sure the battery is free from damage and is not leaking. If battery shows signs of damage or leaking **DO NOT** continue to use. Instead replace battery immediately. Make sure that all battery acid spills are correctly cleaned up straight away. The battery should be stored in a charged condition. The battery is a 12 volt 36AH sealed lead acid battery and requires no maintenance other than:
- 134 Ensure battery terminals are:
- A) Kept Clean.
  - B) Kept Tight.
  - C) Covered to prevent short circuiting.
- 135 If the battery voltage is too low, it will require charging before use.
- 136 Keep the battery in a cool, dry place. It is important to clean the battery every three months and charge every six months

## 14. STORAGE

- 141 Perform all the general maintenance that the maintenance section of your 'User Manual' is recommended.
- 142 Clean the outside of the machine.
- 143 Operate the engine for 10 minutes and then stop.
- 144 Drain the engine oil whilst the engine is still warm and refill with fresh oil.
- 145 Turn the engine for 2-3 seconds and the decompression lever set at the non-compression position. (**DO NOT** start the engine)
- 146 Wipe off the oil and dirt from the engine and store in a dry place.

## 15. TRANSPORTATION

- 151 When transporting the machine make sure that no fuel is allowed to leak out, ensure diesel ON / OFF is in the OFF position (if applicable).

## 16. TROUBLESHOOTING

- 161 If troubleshooting does not solve the problem, contact your dealer or the manufacturer directly. Use only original parts approved by the manufacturer, otherwise a hazard risk arises.

### **ENGINE WILL NOT START** **FUEL SYSTEM**

162 **POSSIBLE CAUSES**

- 1) Fuel valve is in CLOSED position (if applicable).
- 2) Fuel tank empty.
- 3) Machine stored incorrectly with regards to emptying fuel system.
- 4) Water or ice in fuel system.

**POSSIBLE CORRECTIVE ACTIONS**

- 1) Move fuel valve to OPEN position (if applicable).
- 2) Check and fill with fuel.
- 3/4) Check and clean fuel tank of sludge, fuel lines & carburetor. Refill with fresh fuel.
- 5) Contact your dealer.

## 17. SPECIFICATION

<b>DHY8500SELR</b>	
Engine Type	D475E
Power Output (HP)	5.5kW
Start Method	Electric
Displacement (CC)	474cc
Frequency (Hz)	50Hz
Engine Speed (rpm)	3000rpm
Continuous Output Power (Kw)	5.5kW
Maximum Power (Kw)	6.0kW
Voltage AC (V)	230V
Sockets	1x16A socket, 1x32A socket
Fuel Tank Capacity (L)	25L
DC Outputs (V/A)	12V
Battery (V/Ah)	36AH
Dimensions (L x W x H) (mm)	960 x 560 x 730 (mm)
Net Weight (kg)	160kg

## 18. DECLARATIONS OF CONFORMITY

181 Genpower Ltd confirms that these Hyundai products conform to the following CE Directives;

2006/42/EC Machine Directive  
2004/108/EC EMC Directive  
97/68/EC\_2010/26/EC NRMM Emissions Directive  
2000/14/EC Outdoor Noise Directive

## 19. RECYCLING & PRODUCT DISPOSAL

191 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.

192 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** circumstance must any oil and fuel be put down any drains.

193 Waste Electrical Electronic Equipment (WEEE) recycling.



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

195 You **MUST** recycle WEEE in accordance with your local authority or recycling centre.

196 Battery recycling, certain products contain batteries which should not be disposed of in your domestic waste.



197 You **MUST** recycle batteries in accordance with your local authority or recycling centre.

198 Unwanted packaging materials should be sorted and taken to a recycling centre so it can be disposed of in a manner which is compatible with the environment.

199 The following symbol means that you should 'Reduce – Reuse – Recycle'.



1910 We are a Member of the VALPAK National Compliance scheme and our registration number is RM08660.

1911 For further information about disposal please contact your Local Authority.

1912 You can also get more advice and guidance about recycling at the following website <http://www.recycle-more.co.uk>

1913 Should you pass this product onto 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 the



machine safely.

## 20. CONTACT DETAILS

- 201      **POST**  
Genpower Ltd, Isaac Way, London Road, Pembroke Dock, Pembrokeshire, SA72 4RW. UK
- TELEPHONE**  
+44 (0) 1646 687 880
- FAX**  
+44 (0) 1646 686 198
- TECHNICAL EMAIL**  
aftersales@genpower.co.uk
- PARTS EMAIL**  
parts@genpower.co.uk
- WEBSITE**  
www.hyundaipowerproducts.co.uk

## 21. MANUAL UPDATES

- 21.1      Our manuals are constantly being reviewed and updated. Should you find an error, omission or something you find unclear please contact your dealer for assistance. E&OE.
- 21.2      Our latest manuals are also placed online at [www.hyundapowerproducts.co.uk](http://www.hyundapowerproducts.co.uk).
- 21.3      We reserve the right to make any modifications without prior notice whenever necessary.

## 22. WARRANTY

- 221      Warranty cover does not include damage caused by normal wear and tear, accidents, misuse, lack of maintenance, neglect, natural disaster, or other external causes; to damage caused by operating the equipment in a manner outside that described in the instructions. The warranty is considered void if the item has been modified, altered or tampered with. Belts, seals, blades, recoil start assemblies, bearings, wheels, tyres, brake shoes, cables etc are not covered under this warranty. Please see full warranty terms and conditions on [www.hyundaipowerproducts.co.uk](http://www.hyundaipowerproducts.co.uk)
- Domestic Use:** 1 year parts & labour, upto 1000 hous.
- Rental Use:** 3 months parts and labour.



## NOTES

**HYUNDAI**

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