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# SAFE OPERATING PROCEDURE

## 40KvA Generator

### Model - Airman

The instructions recommended within this document apply to normal risk conditions. If the 40kvA Generator is to be operated in a dangerous or hostile environment, the user/client hiring this equipment from Pirie Hire Pty Ltd is responsible for conducting an appropriate risk analysis, and applying suitable controls to mitigate those additional risks.

#### GENERAL SAFETY

- This generator can only be operated if it is in a safe and sound operating condition by a competent operator.
- No drugs, alcohol or smoking is permitted.
- Do not operate near pedestrians or people.
- Ensure all generator functions are working prior to use.
- Ensure trailer brake is applied before disconnecting from vehicle.
- Operator to wear appropriate PPE while using generator.





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## **OPERATING CONDITIONS**

- Carry out a visual inspection on machine prior to use. If anything appears out of the ordinary, seek advice before continuing.
- Ensure you receive basic instructions on starting machine & operating functions.
- Ensure generator is used in a well-ventilated area.
- If applicable, always ensure earth stake is placed into the ground securely.
- Generators produce electrical current that can harm or kill. Always insulate yourself from the electrical circuit, never touch live parts, and always wear dry clothes, rubber soled footwear and dry gloves.
- Familiarize yourself with electrical isolators and engine shutdown.
- Ensure all doors are shut during operation.
- Check electrical cables regularly for damage.
- When using power tools in the auxiliary outlets, ensure the equipment is safe and has up to date test tags.
- Avoid overloading the generator. Be aware of the generators capacity and load you are applying.
- Always shutdown generators engine prior to making electrical connections.
- Keep hands and body parts away from moving parts.
- Only qualified personnel to perform maintenance and repairs.
- Only qualified electricians are to perform hard wired connections. Never hard wire generator to existing electrical installation without a licensed electrician.
- Balance single phase loads across all 3 phases evenly.
- When working in hazardous conditions, a JSA (Job Safety Analysis) is recommended to be performed prior to generator use. These conditions include damp, cramped and confined spaces.
- Always run generator on flat level surfaces.
- Perform an RCD trip test before start-up daily.
- Beware of hot parts of generator.
- Beware of generator battery as it contains harmful acid and can emit flammable fumes.
- Refer to operator's manual for all other requirements.



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## **INSPECTION AND MAINTENANCE**

- If on extended hire, generator and mechanisms are to be inspected regularly. Servicing and repairs are to be organised by Pirie Hire Pty Ltd.
- Operator to carry out daily inspections and top up fluid levels (engine oil, hydraulic oil, fuel and coolant), as required also.

**The above instructions must be followed at all times. If any one of these instructions are not possible, contact the Pirie Hire staff immediately for assistance.**

**For a basic tutorial on the operation of generator, watch this clip:**

**<https://www.youtube.com/watch?v=77w3QHKxeCg>**



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## GENERATOR RISK ASSESSMENT

Risk Area/Hazard	Consequence	Likelihood	Controls
Generator crushing somebody <ul style="list-style-type: none"> <li>Mobile Plant</li> </ul>	<ul style="list-style-type: none"> <li>Serious Injury</li> <li>Fatality</li> </ul>	<ul style="list-style-type: none"> <li>Possible</li> </ul>	<ul style="list-style-type: none"> <li>Communication where possible</li> <li>Always apply trailer brake when generator</li> </ul>
Electrocution <ul style="list-style-type: none"> <li>Electrical</li> </ul>	<ul style="list-style-type: none"> <li>Serious Injury</li> <li>Fatality</li> </ul>	<ul style="list-style-type: none"> <li>Unlikely</li> </ul>	<ul style="list-style-type: none"> <li>Always use generator as stated in the manufacturers specifications</li> <li>Use a qualified electrician for hard wired connections</li> </ul>
Hearing loss and asphyxiation from exhaust fumes <ul style="list-style-type: none"> <li>PPE</li> </ul>	<ul style="list-style-type: none"> <li>Long term hearing damage</li> <li>Breathing issues</li> </ul>	<ul style="list-style-type: none"> <li>Unlikely</li> </ul>	<ul style="list-style-type: none"> <li>Wear hearing protection</li> <li>Avoid operation in enclosed spaces</li> </ul>
Explosion or fire when refuelling <ul style="list-style-type: none"> <li>Electrical/Static</li> </ul>	<ul style="list-style-type: none"> <li>Serious Injury</li> <li>Fatality</li> </ul>	<ul style="list-style-type: none"> <li>Unlikely</li> </ul>	<ul style="list-style-type: none"> <li>Switch generator off before refuelling</li> <li>Avoid fuel touching hot engine parts</li> <li>Ensure fuel cap is sealed correctly</li> </ul>
Generator starting while maintenance being performed <ul style="list-style-type: none"> <li>Stored energy</li> </ul>	<ul style="list-style-type: none"> <li>Serious injury</li> <li>Fatality</li> </ul>	<ul style="list-style-type: none"> <li>Possible</li> </ul>	<ul style="list-style-type: none"> <li>Always isolate generator before performing any pre-start checks or maintenance</li> <li>Confirm isolation by checking main screen for zero power</li> </ul>