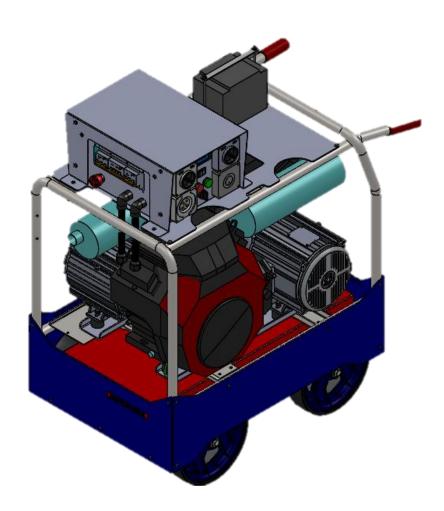


# **Makinex 32kVA Generator**

# **GEN-32P**

- 2x15A Single Phase + 2x32A 3 Phase Outlets



OPERATOR'S MANUAL

Rev 0920

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## INTRODUCTION

Thank you for purchasing a MAKINEX product.

This manual provides information and procedures to safely operate and maintain the **GEN-32P** Generator. For your own safety and protection from injury, carefully read, understand, and observe the safety instructions described in this manual.

Keep this manual or a copy of it with the machine. If you lose this manual or need an additional copy, please contact MAKINEX. This machine is designed and built with user safety in mind; however, it can present hazards if improperly operated and serviced. If there are any questions regarding operating or servicing of this machine, please contact MAKINEX.

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Any type of reproduction or distribution not authorised by MAKINEX represents an infringement of valid copyrights and will be prosecuted. We expressly reserve the right to make technical modifications, even without due notice, which aim at improving our machines or their safety standards.

#### **DISCLAIMER**

MAKINEX and its affiliates take no responsibility for any damage, injury or death resulting from the incorrect or unsafe use of this product. Use of this product should be undertaken by competent persons only. It is the operator's responsibility to ensure that the following safety procedures are followed. If you are unsure, do not operate this product.

Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty inquiries.

MAKINEX SUPPORT
Refer to contact details on pg. 19
MODEL NO.
GEN-32P
SERIAL NO.
DATE OF PURCHASE
PURCHASE LOCATION

#### ABOUT THIS MANUAL

This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment. Follow all safety messages to avoid or reduce the risk of serious injury or death.

#### **KEY TERMS**



**READ CAREFULLY** – refers to *important information* that should be paid careful attention.



**CAUTION** - indicates a potential hazardous situation which, if not avoided, *may* result in minor or moderate injury



**WARNING** – indicates a potentially hazardous situation which, if not avoided, *could* result in death or serious injury



**DANGER** – indicates an imminently hazardous situation which, if not avoided, *will* result in death or serious injury



**PROHIBITED** – identifies actions that **should never** be carried out by anyone interacting with the machine.

These safety warnings do not eliminate all possible hazards that could occur therefore it is essential to use common sense and to strictly follow any instructions to prevent accidents.

#### SAFETY INFORMATION

#### GENERAL SAFETY INFORMATION



Read this manual **thoroughly** before operating your generator. Failure to follow instructions could result in serious injury or death.



MAKINEX GEN-32P Generator designed for professional operators only, instruct operators in care and use of the machine before use!



Keep children away from the generator at all time.

- ALWAYS use in a well-ventilated area.
- ALWAYS have someone alert attending the machine.
- ALWAYS wear hearing protective equipment whilst in operation.
- ALWAYS ensure the applied load does not exceed the generators rating.
- ALWAYS disconnect the generator when carrying out any maintenance.
- ALWAYS ensure the generator reaches operating speed before connecting a load.
- ALWAYS start the engine BEFORE connecting any appliances to the output receptacles.
- ALWAYS test the RCBO's before use.
- ALWAYS check the generator for damage before use.
- ALWAYS keep well clear of all moving parts on the generator.
- NEVER allow children or animals near the generator.
- NEVER connect to a commercial or mains power supply, or any other electrical source.
- NEVER allow the generator to run out of fuel when a load is connected.
- NEVER use accessories or attachments not recommended by MAKINEX.
- NEVER alter or tamper with the internal wiring of the generator.
- NEVER operate in wet conditions.
- NEVER climb or stand on the generator as dents may cause overheating of the acoustic lining.

#### **RISK OF HOT SURFACES**



- Contact with hot surfaces, such as engine's exhaust components, could result in serious burns.
- During operation, touch only the control surfaces of generator.
- **NEVER** touch any part of the engine, alternator, or exhaust when the generator is in use or immediately after use, as these get hot and could burn.

#### **RISK TO BREATHING**



- Running engine gives off Carbon Monoxide, an odourless, colourless, poisonous gas.
- Breathing Carbon Monoxide can cause nausea, fainting or death.
- Some chemicals or detergents may be harmful if inhaled or ingested, causing severe nausea, fainting, or poisoning.



#### **EXHAUST FUMES CAN BE FATAL**



- ALWAYS ensure that there is adequate ventilation when using the generator.
- ALWAYS position the generator so that the exhaust is pointing away from people or animals.
- NEVER use the generator indoors or in an enclosed area.

#### **GENERATOR POSITIONING FOR SAFE USE**

- ALWAYS leave at least a 1 metre (3 foot) gap between the generator and any surrounding building or structure.
- ALWAYS ensure the generator is on a solid, flat surface.
- ALWAYS ensure the surrounding area is free from any material that could burn or be damaged by heat.
- **NEVER** move or tilt the generator whilst it is switched on.
- NEVER cover or enclose the generator whilst it is in use.
- **NEVER** use the generator at an incline above 20° otherwise the engine will malfunction whilst in operation.
- NEVER attempt to lift or move the generator without the assistance of other persons or suitable lifting equipment.

## **ELECTRICITY RELATED SAFETY PRECAUTIONS**



#### **RISK OF ELECTRICAL SHOCK**



- Risk of electrocution
- ALWAYS test the RCBOs before use.
- ALWAYS store the generator undercover when not in use and away from damp or wet conditions.
- ALWAYS disengage the battery when performing any maintenance.
- **NEVER** try to repair electrical components if not authorised or qualified.
- NEVER use the generator outdoor when it is raining or snowing or in wet or damp conditions.
- NEVER use water or any other liquids to clean the unit while it is running.
- NEVER use any damaged electrical cord sets with the generator.

#### **FIRE -RELATED SAFETY PRECAUTIONS**

#### **RISK OF EXPLOSION OR FIRE**



- Fuel and its vapours are extremely flammable and explosive
- FIRE HAZARD
- Fire or explosion can cause severe burns or death
- ALWAYS switch the engine OFF when refuelling.
- ALWAYS refuel away from any source of heat.
- ALWAYS refuel in a well-ventilated area.
- ALWAYS keep a fire extinguisher in the vicinity at all time
- **NEVER** overfill fill the tank, fill to the level specified to allow for fuel expansion.
- **NEVER** smoke or use a naked flame near the generator.
- NEVER start the engine if there is a fuel spill. Any spillage must be wiped clean and the generator allowed to dry before attempting to start the engine.
- **NEVER** leave any combustible materials near the generator.

#### EARTHING OF GENERATOR

Earthing of generators helps protect the user from electric shock or electrocution which may be caused due to malfunction or breakdown. This threat to the user is prevented by creating a path of least resistance for the electrical current to travel to the ground which inherently absorbs the over-current or short circuit.

The appropriate measures for earthing the portable generator are already in place however, the user should always inspect the earthing system before use.



DO NOT TOUCH ANY COMPONENTS IF YOU ARE NOT A QUALIFIED ELECTRICIAN.



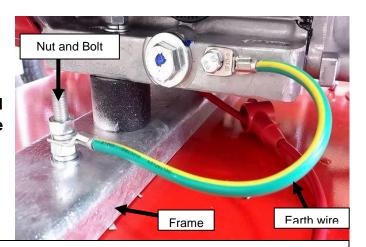


FAILURE TO PROPERLY CONNECT THE EQUIPMENT TO THE EARTHING CONDUCTOR WILL RESULT IN A RISK OF ELECTROCUTION. CONSULT WITH A QUALIFIED ELECTRICIAN INCASE OF DOUBT WITH THE EARTHING OF THE UNIT.

Referring to the example image, there are a few components that should be observed.

- Frame
- Green/yellow earth wire
- Nut and screw

Ensure both wires are secured with the nuts and screw onto the frame.





ANY OTHER GROUNDING INSTALLATION MUST BE CARRIED OUT BY A LICENSED ELECTRICIAN AND ALL LOCAL CODES MUST BE FOLLOWED.

We strongly recommend that all applicable federal, state, and local regulations relating to grounding/earthing specifications be checked and followed.

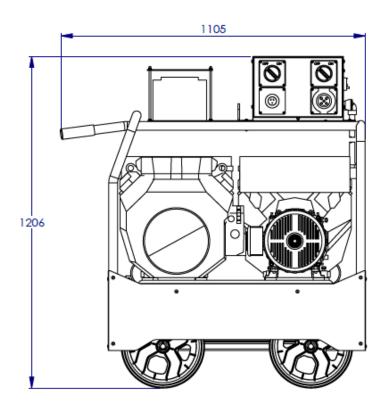


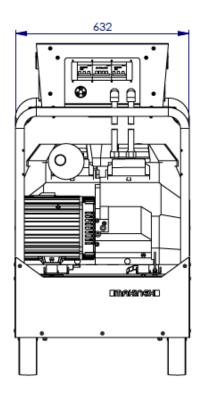
# **PRODUCT SPECIFICATIONS**

GENERATOR:	
MAX OUTPUT	32kVA (25.6kW)
RATED FREQUENCY	50Hz
RATED POWER FACTOR	0.8
OUTLET SOCKETS	
	2 X 15A SINGLE PHASE +
(all with RCBO PROTECTON)	2 X 32A 3PHASE SOCKETS
DRY WEIGHT	300 KG
DIMENSIONS	1105 x 632x 1206 mm LENGTH x WIDTH x HEIGHT APPROX
	NO LOAD – dB
NOISE LEVEL (7m)	50% LOAD – dB
	100% LOAD – dB
ENGINE:	
TYPE	TWIN CYLINDED AID COOLED DETDOL
	TWIN CYLINDER AIR COOLED PETROL
MODEL	HONDA GX690
STARTING SYSTEM	ELECTRIC KEY START
DISPLACEMENT	688CC
FUEL ECONOMY	3.5L/h @ 50% LOAD
FUEL TANK	50 L

# **FEATURES**

FEATURES
Durable Galvanised frame
Multi cushion isolators for vibration reduction
Compact design for easy storage and transport
Lifting point for transportation
RFL permanent magnet alternator





SIDE VIEW FRONT VIEW

# **ALTERNATOR SPECIFICATIONS**

RFL ₩ ALTERNATO	RS	Alternator	
Frame	132	Type RF2 - 17.5	
Enclosure	IP23	PM Brush	less Alternator
Poles	2	Phase	3
RPM	3000	Volts	415
Frequency	50 Hz	Amps	20
Power	14.0 kW	Motor Start kVA	19.0
Weight (kg)	51	Short Cir Amps	60
Ref Temp	27 °C	Serial No.	RF2-132-150-180-3P-1
(€ &	λ	EC. 1282. 0E	140328. RFLQ093

# **INSTRUCTION FOR USE**



Read and adhere to all safety and operation instructions.

#### **BEFORE USE**

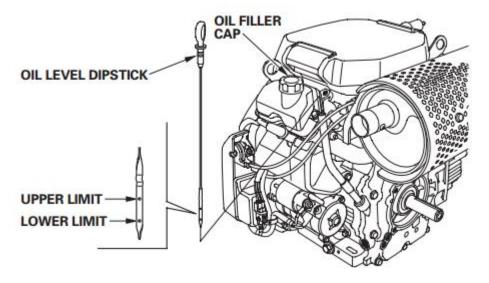
Before using the generator, ensure all the safety and operation instructions are read and the following steps are performed.

#### **OIL LEVEL CHECK**



Check the engine oil level with the engine stopped and in a levelled position

- 1. Check the engine oil level with the engine stopped and, in a levelled position.
- 2. Start the engine and let it idle for 1 or 2 minutes. Stop the engine and wait for 2 or 3 minutes.
- 3. Remove the oil level dipstick and wipe it clean.
- 4. Fully insert the oil level dipstick, then remove it to check the oil level.
- 5. If the oil level is low, remove the oil filler cap, and fill with the recommended oil to the upper limit mark on the oil level dipstick.
- 6. Reinstall the oil level dipstick and oil filler cap



NOTE: New machines will be pre-oiled from MAKINEX with: Honda Power Equipment Engine Oil – SAE 10W-30, API SJ

#### **REFUELING**



# FAILURE TO USE FUEL AS RECOMMENDED IN THIS MANUAL WILL VOID WARRANTY

- **DO NOT** use unapproved gasoline such as ethanol-based fuel.
- DO NOT mix oil with gasoline.
- DO NOT modify engine to run on alternate fuels.



Fuel and fuel vapour are extremely flammable and explosive. Fire or explosion from misuse of fuel can cause severe burns and even death.





Always ensure that fuel tanks are filled outdoors.

- 1. Turn generator **OFF** and let it cool for at least two minutes before removing fuel cap.
- 2. Loosen fuel cap slowly to release pressure.
- 3. Slowly add unleaded gasoline to fuel tank. **DO NOT** fill fuel above baffle to allow for appropriate space fuel expansion.
- 4. Wait for spilled fuel to evaporate before starting the engine.



Keep fuel away from sparks, open flames, pilot lights, heat and other ignition sources.





DO NOT light a cigarette or smoke near open fuel tank or container.

#### **OPERATING GENERATOR**



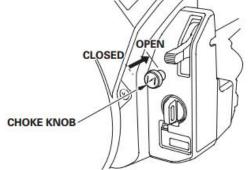
Read and adhere to all safety and operation instructions.



Always have the brake down while it is stationary.

#### **STARTING THE GENERATOR**

- 1. Remove all connections from the AC sockets.
- 2. If the fuel tank is equipped with a valve, be sure the fuel valve is in the OPEN or ON position before attempting to start the engine.
- 3. To start a cold engine, pull the choke knob out to the CLOSED position. To restart a warm engine, leave the choke knob in the OPEN position.
- 4. Turn the engine switch to the START position and hold it there until the engine starts.
- 5. When the engine starts, release the engine switch, allowing it to return to the ON position.
- 6. Once the engine has warmed up, set the choke lever to the OPEN position.



## CONNECTING ELECTRICAL DEVICES

The generator can supply 230V AC through 2 x 15amp sockets and 415V AC through the 2x32A socket.

- 1. Connect the appliance to the generator starting with the device that draws the most current.
- 2. Set the circuit breaker to 'ON'.

#### SHUTTING DOWN THE GENERATOR

- 1. Disconnect all appliances connected to the generator.
- 2. Turn the ignition key to the OFF position.
- 3. Set the fuel supply valve to OFF if the fuel tank equipped with.

**NOTE:** To stop the generator in an emergency simply turn the ignition key to the off position.

# **MAINTENANCE**

#### **GENERAL RECOMMENDATIONS:**

Regular maintenance will improve the performance and extend the life of the generator.

The generator's warranty does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the generator as instructed in this manual and in the **Honda GX690** user manual, including proper storage and regular servicing.



Regular maintenance is required to ensure performance of generator and to ensure warranty is not voided.

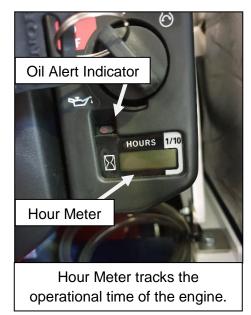
The maintenance schedule is in the Honda GX690 owner's manual.

Should you have questions about replacing components on your generator, please contact dealer for assistance. MAKINEX dealers have access to all the special tools, technical information, parts and training required to maintain your MAKINEX product in peak operating condition.

#### **GENERAL GENERATOR CHECKS**

It is considered good practise to check the generator before and after use, looking at:

- Function of brake
- Condition of electrical components (especially RCBOs)
- Earthing bolts are tight
- Condition of engine mounts
- Fuel lines conditions
- Oil and fuel levels
- Battery is well secured, and terminals are fastened tightly
- Hour meter
- Any possible leaks



# **GENERAL TROUBLESHOOTING**

PROBLEM	POSSIBLE CAUSES	CORRECTIONS
	Out of fuel.	Add fresh fuel.
	Wrong fuel.	Drain fuel tank and then add fresh fuel.
ENGINE WILL NOT	Low engine oil.	Fill up with oil.
START	Choke is OPEN if the engine is cold.	Close the choke.
	Low battery.	Charge the battery.
	Engine requires servicing.	Contact authorised Makinex dealer
	Stale fuel.	Drain fuel tank and then add fresh fuel.
	Dirty air filter.	Replace or clean air filter.
ENGINE LACKS	Generator is overloaded.	Reduce the load.
POWER	Fault in alternator.	Contact authorised Makinex dealer
	Engine throttle is in "SLOW" position.	Slide the throttle to "FAST" position.
	Engine requires servicing.	Contact authorised Makinex dealer
ENGINE IS	Circuit breaker tripped	Unplug all appliance from sockets and reset the circuit breaker.
RUNNING BUT NO AC OUTPUT	Faulty appliance.	Connect with another appliance that is in good condition.
	Fault in generator	Contact authorised Makinex dealer
UNIDENTIFIED	Contact authorised	Makinex dealer for assistance.

For other engine problems or further instructions, refer to the provided Honda GX690 user manual.

### **STORAGE WITH FUEL IN TANK**

Gasoline fuel can become stale when stored over **30 days**. Stale fuel causes acid and gum deposits to form in the fuel system or crucial carburettor parts. To keep fuel fresh:

- 1. Add a fuel stabiliser liquid additive to fuel.
- 2. Run engine for a minimum of 2 minutes to allow it to circulate throughout the engine



Fuel and fuel vapour are extremely flammable and explosive. Fire or explosion from misuse of fuel can cause severe burns and even death.



## **RUST PREVENTION IN CYLINDERS**

- 1. Remove spark plugs and pour approx. 15ml (1/2oz) of clean engine oil into the cylinder.
- 2. Install spark plug and briefly turn the key starter for 1-2 seconds to distribute oil. **DO NOT** start engine at this time.



Unintentional sparking can cause fire or electrical shock. Failure to observe this warning can cause severe property damage, severe burns and even death.

Disconnect spark plug wire from spark plug and cover tip of spark plug wire with insulating tape and place wire where it cannot come in contact with spark plug or generator frame.



Certain storage covers can be flammable or can melt in high temperatures. DO NOT place storage cover over generator until it has completely cooled.

### **BATTERY STORAGE PRECAUTIONS**

After use of the generator, follow these precautions to ensure the battery does not drain whilst in storage or not in use.

- 1. Check the key ignition is in the OFF position.
- 2. Check the battery isolator is in the OFF position by turning anti-clockwise to release.

#### LIMITED WARRANTY

To take advantage of the MAKINEX limited warranty, you must have maintenance performed according to the maintenance schedule (contained in **Honda GX690** owner's manual supplied with this product), by an authorised MAKINEX dealer or MAKINEX service technician. You are free to have your MAKINEX product serviced by any suitably qualified mechanic or electrician (depending on the mechanical or electrical requirement) and this will not affect your statutory warranties, however, failure by the owner to have the recommended servicing carried out by an authorised MAKINEX dealer/service technician means that you cannot take advantage of the MAKINEX limited warranty.

MAKINEX warrants each new generator to be free from defects in material and workmanship under normal domestic and industrial use and service for the period specified below, conditional to the limitations and exclusions printed on this page. This warranty applies only to new MAKINEX generator distributed by us and by our authorised MAKINEX dealers.

Under the limited warranty and at MAKINEX's discretion, upon evaluation, inspection and testing by a MAKINEX dealer or a MAKINEX service technician, MAKINEX will repair and replace of defective part(s).

AUSTRALIA: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

## WARRANTY: (Ex-factory/ Reseller premise)

MAKINEX warrants to the original purchaser:

- Frame and all Electrical components will be free of defects in material and workmanship for a period of one year from the original date of purchase.
- Honda GX Engine is subject to 3 years warranty.
  - Please see www.hondapowerequipment.com for details.
- 3 years warranty on RFL alternators

#### **WARRANTY EXCLUSIONS**

This warranty does not cover the following repairs and equipment:

#### **NORMAL WEAR**

Generator needs periodic service and genuine parts to perform well. This warranty does not cover repair when normal use has exhausted the life of a consumable part for example the oil filter and fuel filter.

#### **INSTALLATION, USE, AND MAINTENANCE**

This warranty will not apply to parts and/or labour if this generator is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the generator's limits, modified and installed improperly. Normal maintenance such as spark plugs, air filters, adjustments, fuel system cleaning and obstruction due to build-up is not covered by this warranty.

#### OTHER EXCLUSIONS

This warranty excludes:

- Maintenance services cost.
- Expedited freight costs.
- Cosmetic damage such as paint, decals, etc.
- Problems caused by accidents, improper storage, handling and shipping.
- Accessory parts such as starting batteries, fuses, spark plugs, and storage covers.
- Failures due to acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not from the original manufacturer.

#### OWNER'S RESPONSIBILITY UNDER LIMITED WARRANTY:

Strict adherence to the maintenance checks and with **proof of scheduled maintenance history** is required by an authorised agent or qualified mechanic. It is the consumer's responsibility to deliver the machine in question to our service premises or to the premises of our appointed agent at the consumer's expense for replacement or repair as applicable. Maintenance services are not covered under warranty.

#### **Claim Procedure:**

- Contact MAKINEX by phone or email informing us of your machines problem or defect.
- Once the extent of the claim has been assessed, we retain the right to compensate the consumer for such defect, or repair (parts & labour), or replace the machine under warranty.
- All warranties will be carried out by MAKINEX authorised staff or appointed agents at a premise to be determined by the Manufacturer.
- It is the responsibility (and cost) of MAKINEX or our appointed agent to return the
  machine to be repaired or replaced under warranty to the consumer- this is valid for
  domestic territories only (e.g. Australian units will be delivered within Australian
  territories and European units will be delivered within its designated country's
  territories).
- Where the specific warranty component (e.g. Engine) is under a Manufacturer's warranty other than MAKINEX (e.g. Honda, Hatz or Kohler etc.), the consumer can either contact MAKINEX or the applicable manufacturer for repairs where such warranty was registered with that manufacturer at purchase.
  - Warranty calls will only be carried out by our representatives and not via client's choice
    of repairer. We will not accept back charges for any work not carried out by our
    representatives or accept any charges due to equipment being un-operational for any
    reason even during its warranty period.

# **CONTACT INFORMATION**

For sales, service, warranty and parts for all MAKINEX products; please refer below.

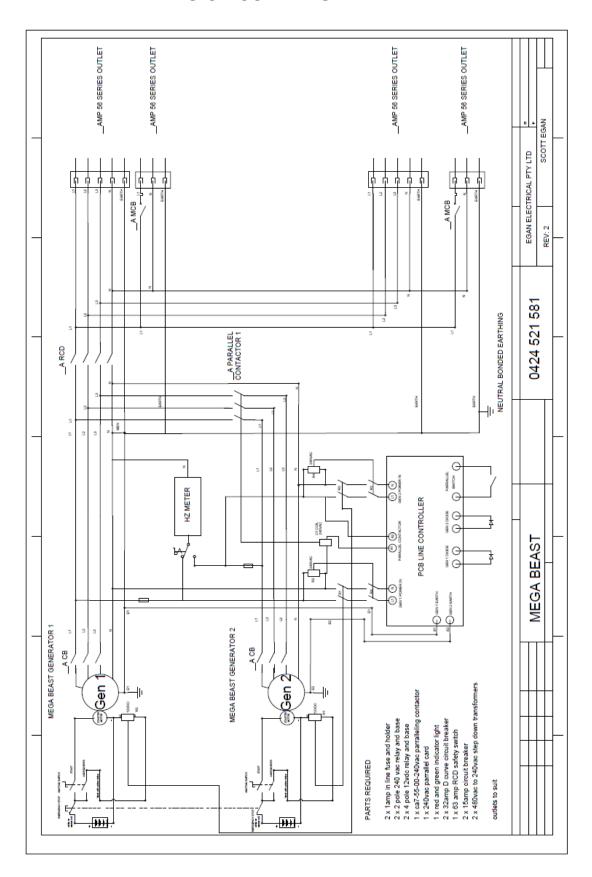
	SALES, SERVICE, SPARE PARTS & WARRANTY
	<u>SALES</u>
AUSTRALIA	<b>TEL</b> 1300 795 953 or +61 2 9460 8071 <b>WEB</b> www.makinex.com.au
7.001.0.1	SERVICE, SPARE PARTS & WARRANTY
	EMAIL service@makinex.com.au
	<u>SALES</u>
USA	TEL +1 855-625-4639 WEB <u>www.makinex.com</u>
USA	SERVICE, SPARE PARTS & WARRANTY
	EMAIL service@makinex.com
UK	WEB www.makinex.co.uk
FURORE	TEL +31 (0)6 24881203 or
EUROPE	+31 (0)6 50841849 <b>EMAIL</b> info@mtools.eu
CHINA	TEL +86 18951118278 EMAIL sales@makinex.com.cn

# Or your nearest MAKINEX distributor

We have very knowledgeable, experienced staff to assist you with help and advice.



# APPENDIX A - WIRING CIRCUIT DIAGRAM



# APPENDIX B - RISK ASSESSMENT

PRODUCT NAME: GEN-15F Generator  OPERATOR COMPETENCY: PLANT LICENCE NOT REQUIRED  10 BURNS/FIRE 1.2 FIRE/EXPLOSION WHILST DOING 2  1.2 FIRE/EXPLOSION WHILST REFUELING ENGINE 3 UNLIKELY ELECTROCUTION 2.1 PERSONAL INURY BURNS TREFUELING ENGINE 3.2 STARTING PORTABLE GENERATOR 3.1 PERSONAL INURY WHEN LIFTING/OR MOVEMENT ON 2  1.2 FIRE/EXPLOSION WHILST REFUELING ENGINE 3 UNLIKELY ELECTRICAL CONNECTIONS ON GENERATOR 3.2 STARTING PORTABLE GENERATOR 3.2 STARTING PORTABLE GENERATOR 3.3 STARTING PORTABLE GENERATOR 3.4 PERSONAL INURY WHEN LIFTING/OR MOVEMENT ON 2  1. HEARING DAMAGE DUE TO LONG TERM USE 3 UNLIKELY GENERATOR 5. THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED AS A GENERATOR ONLY THE AUSTRALIAN STANDARD ACOLAL 4/5 - 1996 1. THE STANDARD ACOLAINMENT AND CONSULT. SAFEGUMENDY OF MACHINERY PART 1. GENERAL  1. HAZDAK PRODUCT HAS BEEN PERSONAL STANDARD ACOLAINMENT AND CONSULT. SAFEGUMENDY OF MACHINERY PART 1. GENERAL  2. THE AUSTRALIAN STANDARD ACOLAINMENT AND CONSULT. SAFEGUMENDY OF MACHINERY PART 1. GENERAL  3. SAFEGUMENDING OF MACHINERY - PART 1. GENERAL  3. SAFEGUMENDING OF MACHINERY - PART 1. GENERAL  3. SAFEGUMENDING OF BLECTRICAL EQUIPMENT . 3. UNLIKELY PRODUCT BY AUSTRALIAN STANDARD AS 3760 IN-SERVICE . 3. UNLIKELY PARTOR PARTOR AND TESTING OF ELECTRICAL EQUIPMENT . 3. UNLIKELY PARTOR PARTOR AND TESTING OF ELECTRICAL EQUIPMENT . 3. UNLIKELY PARTOR PARTO	Assessment  CONSEQUENCE  A NEGLIGIBLE  MAJOR  MAJOR	PUCT RISK / HAZA  Revision Number: 1001  Date Created: 105/0  Bate Created: 105/0  LOW  HIGH  HIGH  LOW  MEDIUM  MEDIUM  MEDIUM  MEDIUM  MEDIUM  OF A DEFINED RISK / MORMAL OPERATION  G NORMAL OPERATION  INSELHODE EVALUATION  EST ESTIMATION VIA	S 8 Barna	TROL ACTION  SOLD BEFORE MAINTENANCE/ADJUSTMENTS  SOLD BEFORE MAINTENANCE/ADJUSTMENTS  ELL VENTILATED AREA (OUTSIDE, CLEAR OF IGNITION SOURCES)  ELL VENTILATED AREA (OUTSIDE, CLEAR OF IGNITION SOURCES)  ALS WHEN STARTING / USING GENERATOR  "RISK LEVEL" REFERS TO THE SEVERITY OF A RISK BASED ON THE "RISK LEVEL" REFERS TO THE SEVERITY OF A RISK BASED ON THE "NEMBLY LEVEL" REFERS TO THE SEVERITY OF A RISK INCREASES. EVEN WHEN  LIKELHOOD IS LOW - THE FOLLOWING SCALE HAS BEEN USED:  1. HIGH = POTENTIAL DEATH, PERMANENT DISABILITY, OR MAIOR  STRUCTURAL DAMAGE.  2. MEDUINA = POTENTIAL TEMPORARY, DISABILITY, OR MINOR  STRUCTURAL DAMAGE.  3. LOW = POTENTIAL INCIDENT THAT HAS THE POTENTIAL TO CAUSE  PERSONS TO REQUIRE FIRST AID.	
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