



## Makinex 9kW Generator

### GEN-9P USA SPEC

3-PHASE GENERATOR



## OPERATOR'S MANUAL

REV1117

## Table of Contents

<b>DISCLAIMER</b>	<b>3</b>
<b>ABOUT THIS MANUAL</b>	<b>4</b>
KEY TERMS	4
<b>PRODUCT INFORMATION</b>	<b>5</b>
PROPOSITION 65 WARNINGS	5
SAFETY INFORMATION	5
<i>GENERAL SAFETY PRECAUTIONS</i>	5
<i>ELECTRICITY RELATED SAFETY PRECAUTIONS</i>	7
EARTHING OF GENERATOR	8
SAFETY DECAL	10
<b>PRODUCT SPECIFICATIONS</b>	<b>11</b>
GEN-9P-US WITH 2X30A, 2X20A OUTLETS WITH GFCI PROTECTION	11
FEATURES	11
OVERALL MACHINE DIMENSIONS	12
ALTERNATOR SPECIFICATIONS	12
<b>OPERATION</b>	<b>12</b>
BEFORE USE	13
ADDING FUEL	13
<b>OPERATING GENERATOR</b>	<b>15</b>
CONNECTING ELECTRICAL DEVICES	15
SHUTTING DOWN THE GENERATOR	15
<b>MAINTENANCE</b>	<b>16</b>
GENERAL RECOMMENDATIONS:	16
<i>CHECK YOUR GENERATOR</i>	16
<b>STORAGE</b>	<b>17</b>
<b>LIMITED WARRANTY</b>	<b>18</b>
NORMAL WEAR	18
INSTALLATION, USE, AND MAINTENANCE	19
OTHER EXCLUSIONS	19
<b>CONTACT INFORMATION</b>	<b>21</b>
APPENDIX A- RISK ASSESSMENT	22
APPENDIX B- WIRING DIAGRAMS	23

## **INTRODUCTION**

Thank you for purchasing a MAKINEX product.

This manual provides information and procedures to safely operate and maintain the **GEN-9P-US** 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. Please follow the operating instructions carefully. If there are any questions regarding operating or servicing of this machine, please contact MAKINEX.

All rights, especially copying and distribution rights are reserved.

Copyright 2017 by MAKINEX

No part of this publication may be reproduced in any form or by any means, electronic or mechanical, including photocopying, without express written permission from MAKINEX

Any type of reproduction or distribution not authorised 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
1-855-Makinex ( <a href="tel:855-625-4639">855-625-4639</a> )
MODEL NO.
GEN-9P-US
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	<b>READ CAREFULLY</b> – refers to <i>important information</i> that should be paid careful attention.
 CAUTION	<b>CAUTION</b> - indicates a potential hazardous situation which, if not avoided, <i>may</i> result in minor or moderate injury
 WARNING	<b>WARNING</b> – indicates a potentially hazardous situation which, if not avoided, <i>could</i> result in death or serious injury
 DANGER	<b>DANGER</b> – indicates a imminently hazardous situation which, if not avoided, <i>will</i> result in death or serious injury
 PROHIBITED	<b>PROHIBITED</b> – identifies actions that <i>should never</i> be carried out by anyone interacting with the machine.

## PRODUCT INFORMATION

---

### PROPOSITION 65 WARNINGS



THIS PRODUCT CONTAINS ONE OR MORE CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.



EXHAUST GASES FROM THIS PRODUCT CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

## **WASH HANDS AFTER HANDLING THIS PRODUCT**

### SAFETY INFORMATION



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



MAKINEX GEN-9P-US Generator designed for professional operators only, instruct operators in care and use of the machine before use!

### GENERAL SAFETY PRECAUTIONS

- **ALWAYS** use in a well-ventilated area.
- **ALWAYS** ensure the applied load does not exceed the generator's rating. Overloading the generator is dangerous and could cause serious damage.
- **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 GFCI's before use.
- **ALWAYS** check the generator for damage before use.
- **ALWAYS** keep well clear of all moving parts on the generator at all times.
- **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** alter or tamper with the internal wiring of the generator.
- **NEVER** climb or stand on the generator as dents may cause overheating of the acoustic lining.
- **NEVER** touch any part of the engine, alternator, or exhaust when the generator is in use as these get hot and could burn.



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

- Fuel and its vapours are extremely flammable and explosive
- 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.
- **NEVER** overfill fill the tank, fill to the level specified.
- **NEVER** smoke whilst refuelling and avoid smoking or using 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.



#### **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.

### **WARNING: 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. (i.e. in warehouse, tunnel, well or a hold).

## **ELECTRICITY RELATED SAFETY PRECAUTIONS**



### **RISK OF ELECTRICAL SHOCK**

- Risk of electrocution.

- **ALWAYS** test the GFCI's before use.
- **ALWAYS** store the generator undercover when not in use and away from damp or wet conditions.
- **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.



### **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. Keep children away from the generator at all times. They may not be able to recognise the hazards of this product.



### **POSITIONING THE GENERATOR FOR USE**

- **ALWAYS** leave at least a 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.
- **Be aware** of the weight of the generator, do not attempt to lift or move the generator without the assistance of other persons or suitable lifting equipment.

## **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.



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

To connect the generator to an appropriate earth source, a hex nut and an earth terminal should be used. An #8 earth wire must be used to establish the earth path for the electrical current. Connect the terminal of one end of the earth wire to the frame in-between a spring washer and two hex nuts then tighten the nuts securely. The other end of the wire should be bolted securely onto an appropriate ground source.

Portable generators are inherently more dangerous than fixed generators as they are not permanently earthed. Therefore, appropriate measures must be taken to properly set up the earthing of the generators. The National Electric Code (NEC) contains several methods that can be used to establish a suitable earthing source for the portable generator unit. Some examples of these methods are summarised in the following points.



- A suitable earthing source can be a metal underground water pipe in direct contact with the earth at a minimum depth of 10 feet.
- If a pipe is unavailable, an 8-foot length pipe or rod can also be used as a suitable earthing source.
- Pipes used as an earthing source must be 3/4 inch trade size or larger with a non-corrosive outer surface.
- Steel or iron rods must be at least 5/8 diameter, and at least 1/2 inch diameter for non-ferrous rods. Ensure that the non-ferrous material used is earthing suitable.
- Rod or pipe should be driven 8 feet deep into the ground. If a rock bottom is met within 4 feet, the rod or pipe can be buried in a trench.

- All electrical tools and appliances powered by the generator, must be properly earthed by either a third wire or “double insulated”.

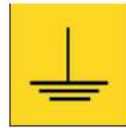
**Recommendations:**

1. Use electrical devices with 3-prong power cords
2. Use extension cords with a 3-hole receptacle and a 3-prong plug on opposite ends to maintain earth protection from the generator to the appliance.

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

**THIS INSTALLATION MUST BE CARRIED OUT BY A LICENSED ELECTRICIAN  
AND ALL LOCAL CODES MUST BE FOLLOWED**

## SAFETY DECAL



<b>MAKINEX</b> GEN-9P-US-240		9000 MAXIMUM WATTAGE 8500 CONTINUOUS WATTAGE	ENGINE 389cc Honda OHV pull start	FUEL TANK 6.1L / 1.6 Gal		makinex.com	SCAN QR CODE TO FIND OUT MORE
<b>⚠ DANGER</b> <b>CARBON MONOXIDE POISONOUS GAS</b> See Manual	<b>USE OUTDOORS</b> AVOID CARBON MONOXIDE POISONING	<b>⚠ DANGER</b> <b>GENERATOR COULD CAUSE ELECTRICAL SHOCK</b>	<b>⚠ WARNING</b> <b>SHOCK</b>		<b>OPERATION</b>		
<ul style="list-style-type: none"> <li>Use generator outdoors, away from open windows, vents, or doors.</li> <li>Generator exhaust contains carbon monoxide – a poisonous gas that can kill you. You CAN NOT smell or see this gas.</li> <li>Never use a generator in enclosed or partially-enclosed spaces.</li> <li>Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up in your home.</li> </ul>		<p>Failure to follow warnings, instructions and operators manual could result in death or serious injury</p> <p><b>GENERATOR COULD CAUSE ELECTRICAL SHOCK</b></p> <ul style="list-style-type: none"> <li>Do not run indoors to avoid wet conditions.</li> <li>Do not run in rain or wet weather</li> <li>Transfer switch must be used when connecting to a home's electrical system</li> </ul> <p><b>HOT EXHAUST GASES COULD CAUSE FIRES. KEEP AT LEAST 5FT (1.5M) CLEARANCE FROM ANY COMBUSTIBLES OR STRUCTURES, INCLUDING OVERHEAD.</b></p> <ul style="list-style-type: none"> <li>Point muffler away from home</li> <li>Do not touch hot parts</li> <li>Avoid hot exhaust gases</li> </ul>	<p>A generator is a potential shock hazard which can result in serious injury or death.</p> <ul style="list-style-type: none"> <li>Generator must be kept dry.</li> <li>Do NOT operate unit with wet hands.</li> <li>Generator MUST be grounded before use.</li> <li>See operators manual for specific instructions.</li> <li>Use extreme caution when refueling unit.</li> <li>GFCI receptacles must be tested before each use. See operators manual.</li> <li>Always keep generator four (4) feet from any structure.</li> <li>Always remove refueling gas can from generator area.</li> <li>This generator has an internal link between the neutral conductor and the earthed frame of the generator.</li> </ul>		<p>Read Operator's Manual carefully before operating unit. Always make sure unit is level and properly grounded. Check engine oil before starting. See instructions located in operator's manual for starting procedure.</p> <div> <div> <b>START-UP</b> <ol style="list-style-type: none"> <li>Turn on engine switch.</li> <li>Turn on fuel valve.</li> <li>Move choke lever to full choke.</li> <li>Pull the rope lightly until you feel some resistance, then apply a fast pull</li> <li>When the engine starts slowly move choke lever to no choke.</li> <li>Allow unit to run two (2) minutes to warm-up with no load.</li> <li>Loads can now be applied to unit.</li> </ol> </div> <div> <b>SHUT-DOWN</b> <ol style="list-style-type: none"> <li>Remove all load by turning off electrical appliances and unplugging electric cords.</li> <li>Allow engine to run at idle speed to cool two (2) minutes. Not allowing engine to cool may result in damage to unit.</li> <li>Turn the engine key to the OFF position.</li> </ol> </div> </div> <p>TEST GFCI RECEPTACLE(S) BEFORE EACH USE. SEE OPERATORS MANUAL FOR INSTRUCTIONS.</p>		



\*May vary by model

## PRODUCT SPECIFICATIONS

---

### **GEN-9P-US WITH 2X30A, 2X20A OUTLETS WITH GFCI PROTECTION**

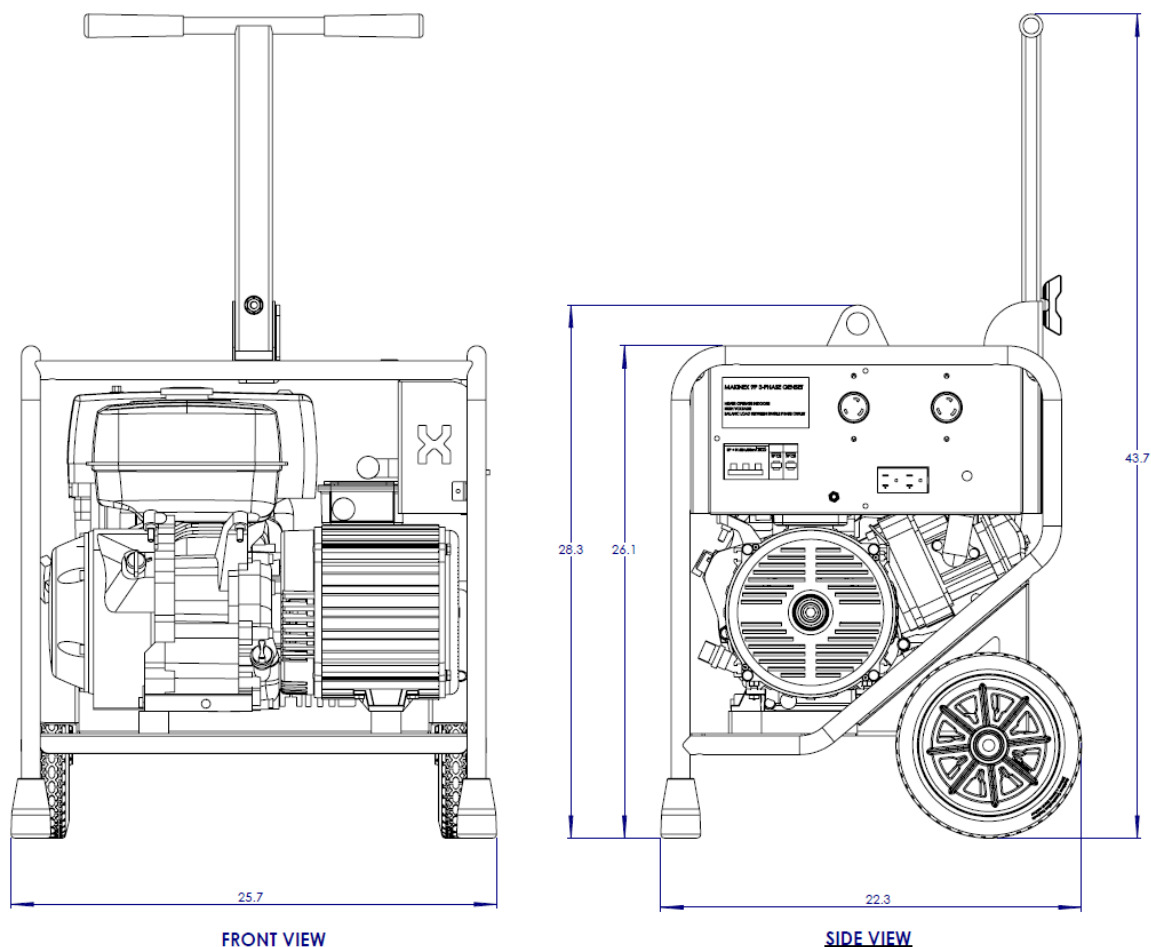
(may vary by model)

<b>GENERATOR:</b>	
MAX OUTPUT	8,700W
FREQUENCY	60Hz
VOLTAGE	120/208V, <b>OR</b> 120/240V
CONTINUOUS OUTPUT	8,000W
SOCKETS	2x30A, 2x20A outlets with GFCI protection (240V)
WEIGHT	100 kg (220 lbs)
NOISE LEVEL (7M)	NO LOAD - 72dB
	50% LOAD - 76dB
	100% LOAD - 78dB
RATED POWER FACTOR	0.8
<b>ENGINE:</b>	
TYPE	AIR-COOLED 4-STROKE OHV
MODEL	HONDA GX390
STARTING SYSTEM	PULL START
DISPLACEMENT	389CC
FUEL ECONOMY	2.3 L(0.6 gallon)/h @ 50% LOAD
FUEL TANK	6.1 L (1.6 gallon)




### **FEATURES**

Durable Galvanised frame
Multi cushion isolators for vibration reduction
Compact design for easy storage and transport

## OVERALL MACHINE DIMENSIONS



## ALTERNATOR SPECIFICATIONS

 <b>RFL Alternators</b> <a href="http://www.rflalternators.com">http://www.rflalternators.com</a>			
<b>Frame</b>	132	<b>Type RF2 - 12.5</b>	
<b>Enclosure</b>	IP23	<b>PM Brushless Alternator</b>	
<b>Poles</b>	2	<b>Phase</b>	3 Δ
<b>RPM</b>	3600	<b>Volts</b>	120/240
<b>Frequency</b>	60 Hz	<b>Amps</b>	28.8
<b>Power</b>	12.0 kW	<b>Motor Start kVA</b>	16.8
<b>Weight (kg)</b>	40	<b>Short Cir Amps</b>	86.4
<b>Ref Temp</b>	27 °C	<b>Serial No.</b>	RF2-132-115-135-3P-1
 		<b>EC. 1282. 0E140328. RFLQ092</b>	

*\*Figures vary by model, 240V model shown*

## OPERATION

### **BEFORE USE**

1. Add Engine Oil (New machines will be pre-oiled from MAKINEX)
  - 1.1 Place generator on a flat, level surface.
  - 1.2 Clean area around oil fill and remove oil fill cap.
  - 1.3 Using oil funnel (optional), slowly pour contents into oil fill opening.
  - 1.4 Replace oil fill cap and tighten.

**NOTE:** IMPROPER treatment of generator can damage it and shorten its life. DO NOT attempt to start the engine before it has been properly serviced with the recommended oil. This may result in an engine failure.

### **ADDING FUEL**

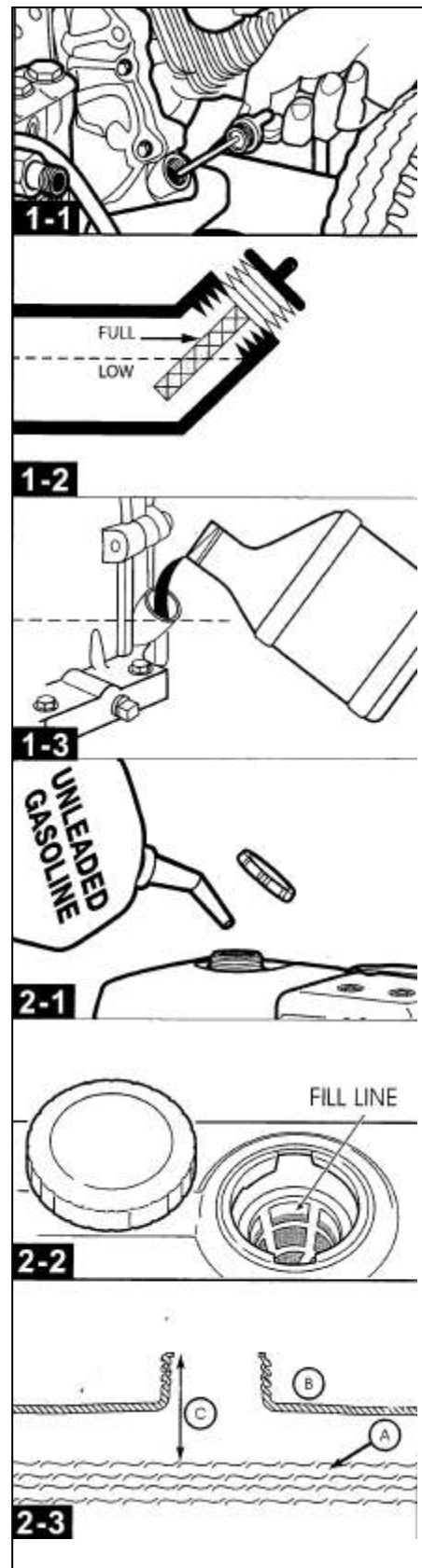


**FAILURE TO USE FUEL AS  
RECOMMENDED IN THIS MANUAL WILL  
VOID WARRANTY**

- DO NOT use unapproved gasoline such as E85 (85% ethanol/15% gasoline).
- 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.**



**WHEN ADDING FUEL TO GENERATOR, OBSERVE THE FOLLOWING STEPS:**

- 2.0 Always ensure that fuel tanks are filled outdoors.
- 2.1 Turn generator OFF and let it cool for at least two minutes before removing fuel cap.
- 2.2 Loosen fuel cap slowly to release pressure.
- 2.2 Slowly add unleaded gasoline to fuel tank. DO NOT fill fuel above FILL LINE. This allows appropriate space for fuel expansion.
- 2.3 Wait for spilled fuel to evaporate before starting the engine.
- 2.5 Keep fuel away from sparks, open flames, pilot lights, heat and other ignition sources.
- 2.6 DO NOT light a cigarette or smoke near open fuel tank or container.

## OPERATING GENERATOR

---

### STARTING THE ENGINE

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. If you are starting the generator 'cold' set the choke lever to the 'ON' position.  
If the generator is warm skip this step.
4. Turn the engine switch to the 'ON' position.
5. Pull the starting handle lightly until you start to feel resistance and then pull up sharply to start the generator.
6. Once the engine has warmed up, set the choke lever to the 'OFF' position.

### CONNECTING ELECTRICAL DEVICES

The generator can supply 120V AC through 2x20A sockets or 208V **OR** 240V AC through 1x30A socket, and 208V **OR** 240V (3-Phase) AC through 1x30A 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 engine switch to the 'OFF' position.

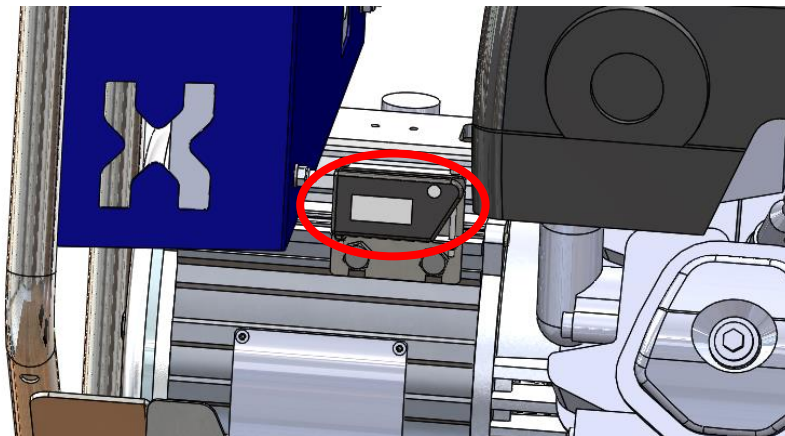
## MAINTENANCE

---

### 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 engine manual, including proper storage.



**NOTE:** An hour meter is installed on the machine to help with tracking operation hours.

**Refer to Honda GX390 user manual (*provided at sale*) for engine related maintenance.**

Should you have questions about replacing components on your generator, please contact dealer for assistance.

### **CHECK YOUR GENERATOR**

It is considered good practise to inspect a generator before and after use, looking at:

- Condition of tyres
- Condition of electrical components
- Earthing bolts are tight
- All 4 generator mounting bolts are tight
- Fuel lines are not damaged
- Oil and fuel levels
- Condition of starter cord

## STORAGE

---

### Long term storage instructions (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, add a fuel stabiliser liquid additive to fuel. The fuel stabiliser is available at most auto parts stores.

Draining gasoline is unnecessary if the fuel stabiliser is used according to the instructions that come with it. Run engine for a minimum of two minutes, after stabiliser is added to fuel, to allow it to circulate throughout the engine. The engine and fuel can be stored up to 24 months.



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

### To protect against rust formation during storage, oil the cylinder bore:

1. Remove spark plug and pour approx. 15ml (1/2oz) of clean engine oil into the cylinder.
2. Install spark plug and pull cord key with engine switch 'OFF' 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.

## LIMITED WARRANTY

---

In order to take advantage of the MAKINEX limited warranty, you must have maintenance performed according to the schedule (contained in relevant 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.

In order to ensure your safety, we strongly recommend that you only use an authorised MAKINEX dealer for servicing. Only authorised MAKINEX dealers have access to all the special tools, technical information, parts and training required to maintain your MAKINEX product in peak operating condition.

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.

### **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 (1) year from the original date of purchase.
- Honda GX Engine is subject to (3) years warranty. Please see [www.hondapowerequipment.com](http://www.hondapowerequipment.com) for details.
- 3 years warranty on RFL alternators
- 1 year warranty for electrical components
- 6 months warranty for battery

### **WARRANTY EXCLUSIONS**

This warranty does not cover the following repairs and equipment:

#### **NORMAL WEAR**

Generator needs periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

## **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:

- Cosmetic defects such as paint, decals, etc.
- Wear items such as filter elements, etc.
- Accessory parts such as starting batteries, 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 original MAKINEX parts.

## **Responsibility of the consumer under this Limited Warranty:**

- Strict adherence to the maintenance checks and schedule with proof of scheduled maintenance service required by an authorised agent or qualified mechanic.
- Maintenance services are not covered under warranty.
- 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.

**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 premises 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 territory, USA units will be delivered within USA territory 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 part orders, please call

	SALES	SERVICE, SPARE PARTS & WARRANTY
AUSTRALIA	<b>TEL</b> +61 2 9460 8071 <b>FAX</b> +61 2 9439 9815 <b>EMAIL</b> <a href="mailto:sales@makinex.com.au">sales@makinex.com.au</a> <b>ADDRESS</b> 15 Waltham Street Artarmon NSW 2064	<b>TEL</b> 1300 795 953 or +61 2 9460 8071 <b>EMAIL</b> <a href="mailto:service@makinex.com.au">service@makinex.com.au</a>
USA	<b>TEL</b> 855-625-4639 <b>EMAIL</b> <a href="mailto:sales@makinex.com">sales@makinex.com</a> <b>ADDRESS</b> 811 North Catalina Avenue Suite 1310 Redondo Beach CA 90277 USA	<b>TEL</b> 855-625-4639 <b>EMAIL</b> <a href="mailto:service@makinex.com">service@makinex.com</a>
EUROPE	<b>TEL</b> +31 (0)6 24881203 or +31 (0)6 50841849 <b>EMAIL</b> <a href="mailto:info@mttools.eu">info@mttools.eu</a> <b>ADDRESS</b> Rietdijk 4 3994 AJ Houten The Netherlands	<b>TEL</b> +31 (0)6 24881203 or +31 (0)6 50841849 <b>EMAIL</b> <a href="mailto:info@mttools.eu">info@mttools.eu</a>
CHINA	<b>TEL</b> 18951118278 <b>EMAIL</b> <a href="mailto:sales@makinex.com.cn">sales@makinex.com.cn</a> <b>ADDRESS</b> Suzhou Industrial Park Xinghai Street on the 16th Jinying Pioneering Park, 2nd Floor, Area C	<b>TEL</b> 18951118278 <b>EMAIL</b> <a href="mailto:sales@makinex.com.cn">sales@makinex.com.cn</a>

Or your nearest MAKINEX distributor

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



## APPENDIX A- RISK ASSESSMENT

PRODUCT RISK / HAZARD ASSESSMENT TABLE										
PRODUCT NAME:		GEN-9P Generator 208/240V USA SPEC			Assessment Carried Out By:			Nathan McMillan		
MANUFACTURER:		MAKINEX			Document Revision Number:			002		
OPERATOR COMPETENCY:		PLANT LICENCE NOT REQUIRED			Date Created:			02/05/2017		
No:	TYPE / NATURE OF RISK or HAZARD			LIKELIHOOD		CONSEQUENCE		RISK LEVEL		CONTROL ACTION
1.0	BURNS/FIRE	1.1	PERSONAL INJURY – BURNS WHILST PERFORMING MAINTENANCE ON MACHINE	2	LIKELY	4	NEGLECTIBLE	4	LOW	• BE CAUTIOUS OF HOT PARTS (SUCH AS MUFFLERS). ALLOW TO COOL BEFORE MAINTENANCE/ADJUSTMENTS
		1.2	FIRE/EXPLOSION WHILST REFUELING ENGINE	3	UNLIKELY	2	MAJOR	3	MEDIUM	• SHUT OFF MACHINE AND ALLOW TO COOL BEFORE REFUELING. NEVER REFUEL WHILE MOTOR IS RUNNING. • DO NOT SMOKE AND ENSURE REFUELING IS UNDERTAKEN IN WELL VENTILATED AREA (OUTSIDE, CLEAR OF IGNITION SOURCES)
2.0	ELECTROCUTION	2.1	LOW RISK OF POSSIBLE MINOR BURNS FROM MAINS ELECTRICAL CONNECTIONS ON GENERATOR	3	UNLIKELY	1	FATALITY	2	HIGH	• ENSURE THAT NO PART OF BODY IS IN CONTACT WITH TERMINALS WHEN STARTING / USING GENERATOR
3.0	ERGONOMIC INJURY	3.1	PERSONAL INJURY WHEN LIFTING/OR MOVEMENT ON SITE	2	LIKELY	2	MAJOR	2	HIGH	• STAFF TRAINING ON CORRECT LIFTING PROCEDURE
		3.2	STARTING PORTABLE GENERATOR	3	UNLIKELY	3	MINOR	4	LOW	• MANUAL HANDLING TRAINING
4.0	NOISE	4.1	HEARING DAMAGE DUE TO LONG TERM USE	3	UNLIKELY	3	MAJOR	3	MEDIUM	• ALWAYS WEAR HEARING PROTECTION WHILST OPERATING AND/OR IN CLOSE VICINITY OF THE MACHINE

### NOTES:

- > THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED AS A GENERATOR ONLY
- > THIS DOCUMENT HAS BEEN PREPARED ACCORDING TO GUIDELINES AND RECOMMENDATIONS FOUND IN:
  1. "HAZPAK" PRODUCED BY THE WORKCOVER AUTHORITY AND
  2. THE AUSTRALIAN STANDARDS 4024.1.4/5 - 1996 "SAFEGUARDING OF MACHINERY - PART 1: GENERAL PRINCIPLES AUSTRALIAN STANDARD, AS/NZS 3760 IN-SERVICE SAFETY INSPECTION AND TESTING OF ELECTRICAL EQUIPMENT.

"LIKELIHOOD LEVEL" REFERS TO THE PROBABILITY OF AN EVENT HAPPENING. THE FOLLOWING SCALE HAS BEEN USED TO DESCRIBE THE LIKELIHOOD OF A DEFINED RISK / HAZARD EVENT OCCURRING DURING NORMAL OPERATION OF THE EQUIPMENT. NOTE THAT LIKELIHOOD EVALUATION IS QUALITATIVE AND BASED ON BEST ESTIMATION VIA CONSULTATION AND EXPERIENCE:

1. VERY LIKELY
2. LIKELY
3. UNLIKELY
4. VERY UNLIKELY

"CONSEQUENCE" REFERS TO THE SEVERITY OF INJURY CAUSED DUE TO AN EVENT OCCURRING. USING THE FOLLOWING SCALE AS DEFINED BY THE "HAZPAK" DOCUMENT:

1. FATALITY = INJURIES RESULT IN DEATH
2. MAJOR = NORMALLY IRREVERSIBLE INJURIES
3. MINOR = REVERSIBLE INJURIES REQUIRING SEVERAL DAYS OFF
4. NEGLECTIBLE = ABLE TO BE TREATED USING FIRST AID

"RISK LEVEL" REFERS TO THE SEVERITY OF A RISK BASED ON THE "LIKELIHOOD LEVEL" AND "INJURY LEVEL". INHERENTLY, AS THE CONSEQUENCE INCREASES IN SEVERITY, RISK INCREASES - EVEN WHEN LIKELIHOOD IS LOW - THE FOLLOWING SCALE HAS BEEN USED:

1. HIGH = POTENTIAL DEATH, PERMANENT DISABILITY, OR MAJOR STRUCTURAL DAMAGE.
2. MEDIUM = POTENTIAL TEMPORARY, DISABILITY, OR MINOR STRUCTURAL DAMAGE.
3. LOW = POTENTIAL INCIDENT THAT HAS THE POTENTIAL TO CAUSE PERSONS TO REQUIRE FIRST AID.

## **APPENDIX B- WIRING DIAGRAMS**

### **GEN-9P-US 208V/240V WIRING DIAGRAM**

