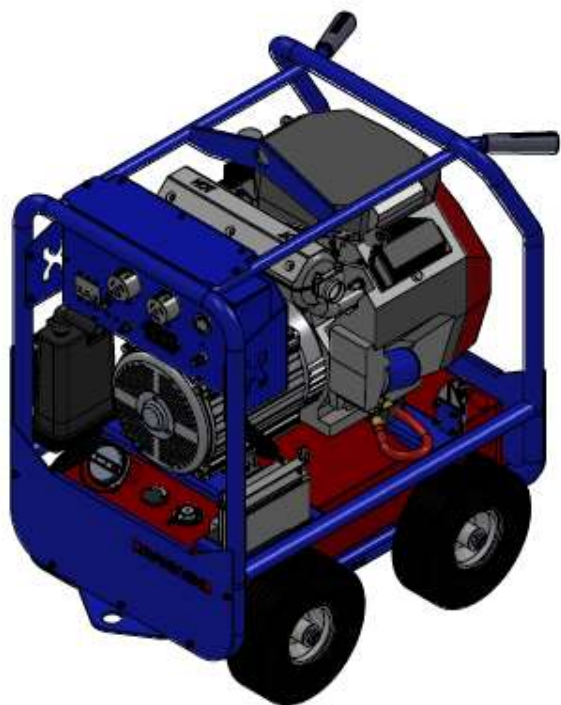




GENERATOR

GEN-16P-US-240-V2



OPERATOR'S MANUAL

Rev 0926

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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-16P-US-240-V2** 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.

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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 information on page 23

MODEL NO.

GEN-16P-US-240-V2

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**

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



CAUTION

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



WARNING

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



DANGER

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



PROHIBITED

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.

GENERAL SAFETY INFORMATION



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



MAKINEX GEN-16P Generator is designed for professional operators only, instruct operators in care and use of the machine before use!



Keep children away from the generator at all times.

- **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 generator's 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** 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.



DANGER

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.



DANGER

RISK TO BREATHING

- Running engine gives off Carbon Monoxide, an odourless, colourless, poisonous gas.
- Breathing Carbon Monoxide can cause nausea, fainting or death.
- Use the generator outdoors in an open and well-ventilated area, away from doors, vents, windows and other openings where carbon monoxide might enter occupied spaces.



DANGER

EXHAUST FUMES CAN BE FATAL



TOXIC HAZARD

- **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 feet) 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.

ELECTRICAL RELATED SAFETY PRECAUTIONS

 WARNING	RISK OF ELECTRICAL SHOCK • Risk of electrocution	 ELECTRICAL HAZARD
---	--	---

- **ALWAYS** store the generator under cover 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 outdoors 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

 DANGER	RISK OF EXPLOSION OR FIRE • Fuel and its vapours are extremely flammable and explosive • Fire or explosion can cause severe burns or death	 FIRE HAZARD
--	---	---

- **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 times.
- **NEVER** overfill 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.



ELECTRICAL HAZARD

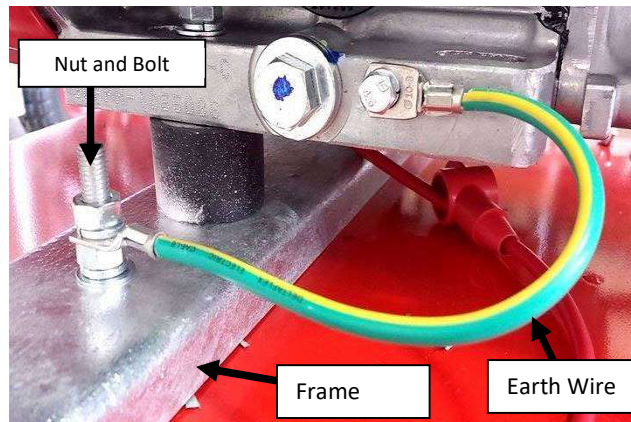


FAILURE TO PROPERLY CONNECT THE EQUIPMENT TO THE EARTHING CONDUCTOR WILL RESULT IN A RISK OF ELECTROCUTION. CONSULT WITH A QUALIFIED ELECTRICIAN IN CASE OF DOUBT WITH THE EARTHING OF THE UNIT.

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.

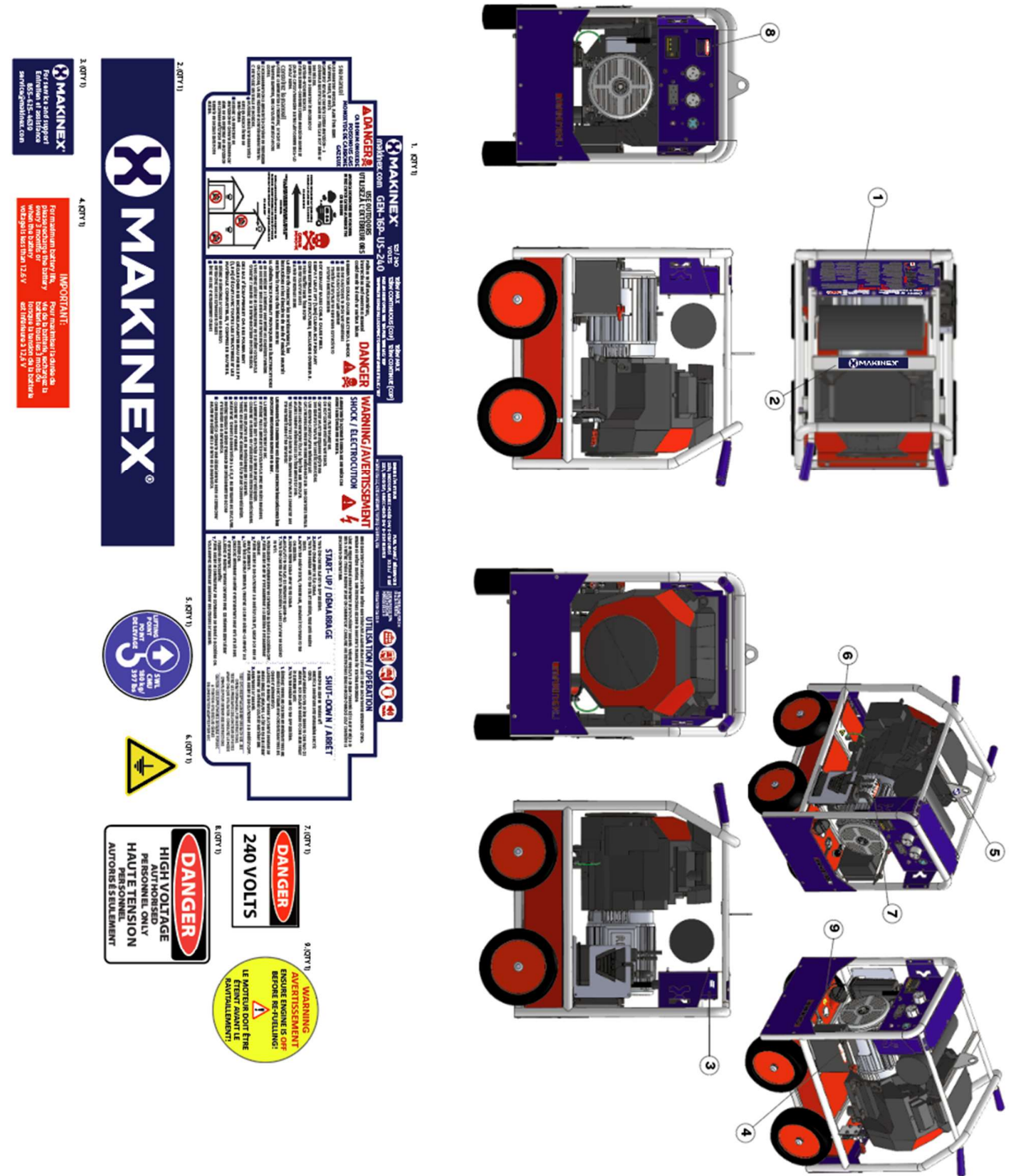


READ CAREFULLY

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.

SAFETY DECALS GEN-16P-US-240-V2

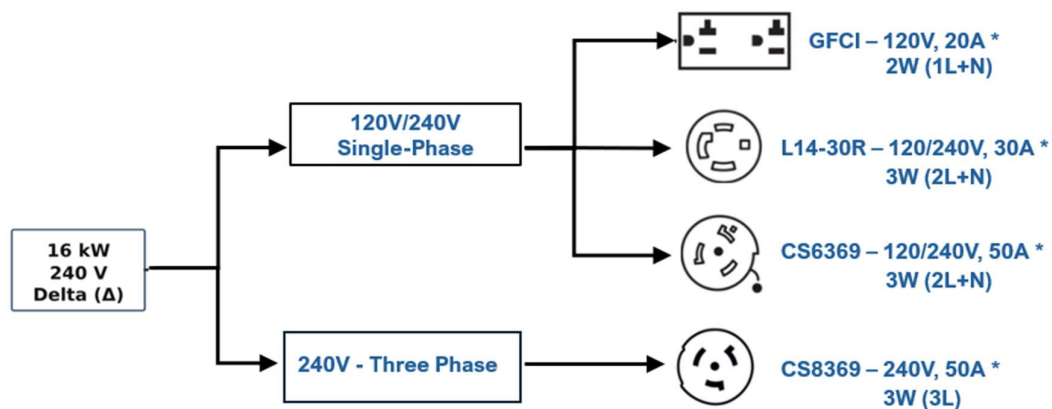


PRODUCT SPECIFICATIONS

SPECIFICATION	VALUE
VOLTAGE	120V/240V single phase, 240V three phase
FREQUENCY	60Hz
3Ø THREE PHASE POWER	Max: 16.8 kW† / Continuous: 15 kW
3Ø 240V THREE PHASE AMPS	Max: 40 A† / Continuous: 36 A
1Ø 120V/240V SINGLE PHASE AMPS (SPLIT-PHASE)	Max: 40 A† / Continuous: 36 A
1Ø 120V SINGLE PHASE AMPS	Max: 20 A / Continuous: 20 A
DRY WEIGHT	342 lbs
NOISE LEVEL (7M)	NO LOAD – 72 dB
ENGINE TYPE	Twin cylinder air cooled petrol
ENGINE MODEL	Honda GX690
STARTING SYSTEM	Electric key start
DISPLACEMENT	688 CC
FUEL ECONOMY	0.92 gal @ 50% LOAD
FUEL TANK	9.0 G (34L)
DIMENSIONS	33 in (L) x 20.8 in (W) x 36 in (H)

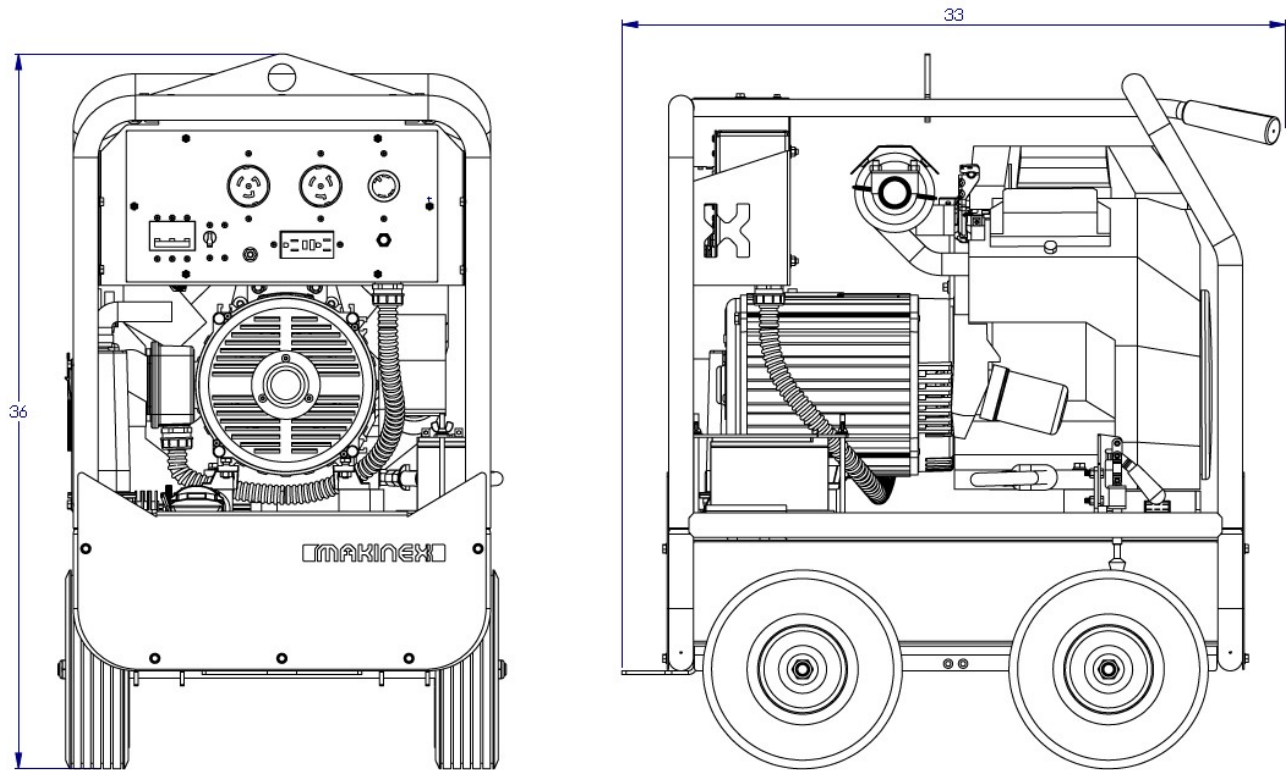
† Maximum cumulative power and current across provided receptacles.

RECEPTACLE FUNCTION TREE



*Receptacle Rating (Receptacle Maximum Rating)

OVERALL MACHINE DIMENSIONS



*Dimensions in inches

FEATURES

Powder coated frame

Electronic key start

Multi cushion isolators for vibration reduction

Compact design for easy storage and transport

Lifting and winch point for transportation

RFL permanent magnet alternator

Heavy duty wheels

ALTERNATOR SPECIFICATIONS

		RFL Alternators	
		http://www.rflalternators.com	
Frame	132	Type RF2 - 17.5	
Enclosure	IP23	PM Brushless Alternator	
Poles	2	Phase	3 Δ
RPM	3600	Volts	120/240
Frequency	60 Hz	Amps	40
Power	16.8 kW	Motor Start kVA	22.8
Weight (kg)	51	Short Cir Amps	120
Ref Temp	27 °C	Serial No.	RF2-132-150-180-3P-1
 		EC. 1282. 0E140328. RFLQ092	

ELECTRICAL PANEL SPECIFICATION

A – Circuit Breaker 1 (CB1)

B – Circuit Breaker 2 (CB2)

C – Circuit Breaker 3 (CB3)

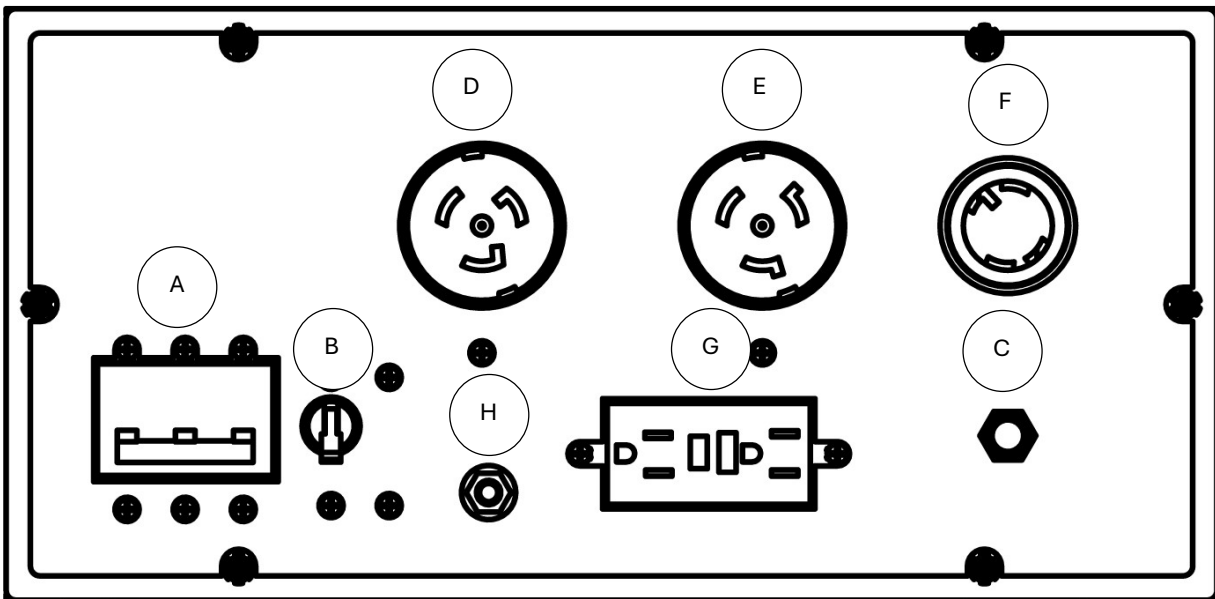
D – CS8369 – **3Φ 240V 50A (40A†)** – CB1

E – CS6369 – **1Φ 120V 50A (23A†) / 1Φ 240V 50A (40A†)** – CB1

F – L14-30R – **1Φ 120V 23A (30A†) / 1Φ 240V 30A (30A†)** – CB1 / CB2

G – GFCI – **1Φ 120V 20A (20A†)** – CB1 / CB3

H – Earth/ Ground External Connection



† Cumulative Max Output 1Φ 120V/240 40A / 3Φ 240V 40A / 1Φ 120V 20A

INSTRUCTIONS FOR USE



NEVER operate this generator without wearing the appropriate personal protective equipment (PPE) including appropriate footwear.
Assess the surrounding area for hazards.



ALWAYS seek appropriate First Aid if Injury, Poisoning or Irritation occurs due to contact with fuel, oil, battery electrolyte and exhaust gases.



ALWAYS read and adhere to all safety and operation instructions.

BEFORE USE

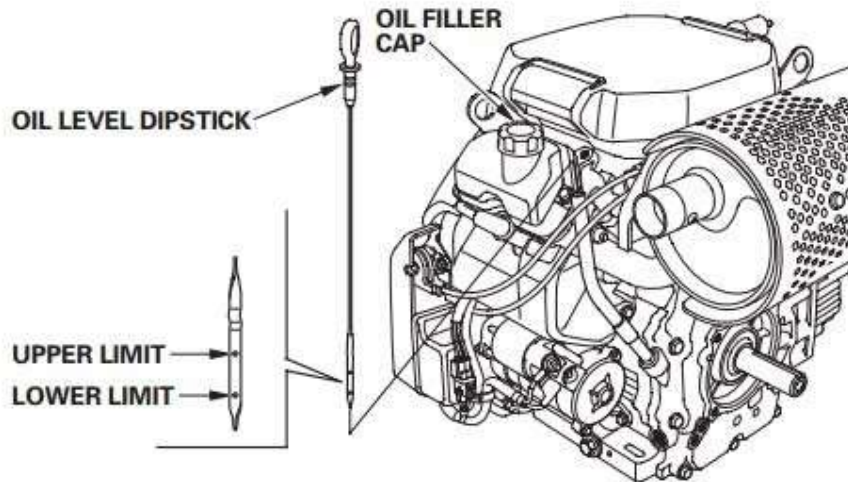
Before using the generator, ensure all the safety and operation instructions are read and the following steps are performed.

OIL LEVEL CHECK



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

1. Check the engine oil level with the engine stopped and, in a level 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

WARNING

- **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.



WARNING

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



FIRE HAZARD



WARNING

Always ensure that fuel tank is 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.	
WARNING		

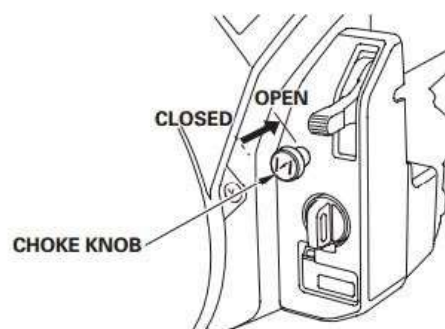
OPERATING GENERATOR

	Read and adhere to all safety and operation instructions.
WARNING	

	Always engage the brake while the generator is stationary.
WARNING	

STARTING THE GENERATOR

1. Remove all connections from the AC receptacles.
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 1P 120V AC through 1 x GFCI receptacles, 3P 240V AC through the 1 x CS8369 receptacle and 1P 120V/240V through 1 x CS6369 and 1 x L14-30R receptacles.

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 for generator.
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.



READ

CAREFULLY

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

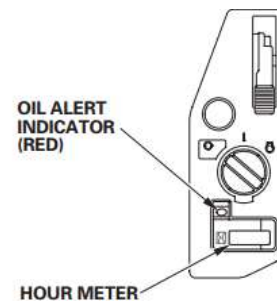
The maintenance schedule is in the Honda GX690 owner's manual.

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
- 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
ENGINE WILL NOT START	Out of fuel.	Add fresh fuel.
	Wrong fuel.	Drain fuel tank and then add fresh fuel.
	Low engine oil.	Fill up with oil.
	Choke is OPEN if the engine is cold.	Close the choke.
	Low battery.	Charge the battery.
	Engine requires servicing.	Contact authorised Makinex dealer
ENGINE LACKS POWER	Stale fuel.	Drain fuel tank and then add fresh fuel.
	Dirty air filter.	Replace or clean air filter.
	Generator is overloaded.	Reduce the load.
	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 RUNNING BUT NO AC OUTPUT	Circuit breaker tripped	Unplug all appliances from receptacles and reset the circuit breaker.
	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



WARNING

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



FIRE HAZARD

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.



WARNING

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.



WARNING

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 anticlockwise to release.

LIMITED WARRANTY

To take advantage of the MAKINEX limited warranty, you must have maintenance performed by an authorised MAKINEX dealer or MAKINEX service technician. You are free to have your MAKINEX product serviced by any suitably qualified persons 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 12 months from the date of original purchase, 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 or replace defective part(s).

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.

INSTALLATION, USE, AND MAINTENANCE

This warranty will not apply to parts and/or labor if this generator is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the generator's limits, modified, installed improperly or electrically connected incorrectly. 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, Pistons, O-rings, 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.
- Maintenance service costs.
- Freight costs.
- Improper installation including electrical connections, earthing, ventilation, fuel systems, exhaust and mounting.
- Overload beyond capacity.
- Improper or contaminated fuel.
- Consequential losses including downtime, hire or replacement equipment, travel costs, freight costs or damage to connected equipment.
- Failure to report faults promptly within warranty period.

OWNER'S RESPONSIBILITY UNDER THIS LIMITED WARRANTY

Strict adherence to the maintenance checks and schedule with **proof of scheduled maintenance service 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 repair as applicable. Maintenance services are not covered under warranty.

CLAIM PROCEDURE:

- Contact MAKINEX by lodging a warranty or service request on www.makinex.com informing us of your machine's 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.
- Where the specific warranty component (e.g., engine, alternator) is under a Manufacturer's warranty other than MAKINEX (e.g., Honda, RFL 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	<u>SALES</u> TEL 1300 795 953 or +61 2 9460 8071 WEB www.makinex.com.au <u>SERVICE, SPARE PARTS & WARRANTY</u> EMAIL service@makinex.com.au
USA	<u>SALES</u> TEL +1 855-625-4639 WEB www.makinex.com <u>SERVICE, SPARE PARTS & WARRANTY</u> EMAIL service@makinex.com

Or your nearest MAKINEX distributor

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



APPENDIX A- RISK ASSESSMENT

PRODUCT RISK/ RISK HAZARDMENT ASSESSMENT				
PRODUCT NAME:	GEN-16P-US-240	ASSESSMENT CARRIED OUT	Andy Leung / Hayden Ellis	
MANUFACTURER:	MAXINEX	DOCUMENT REVISION	001	
OPERATOR COMPETENCY:	PLANT LICENCE NOT REQUIRED	DATE CREATED	15/04/2025	

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	NEGIGIBLE	4	LOW	- BE CAUTIOUS OF HOT PARTS (SUCH AS MUFFLER). - 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 A WELL-VENTILATED AREA. (OUTSIDE, CLEAR OF IGNITION SOURCE.
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 IN CONTACT WHEN 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 CORRECT LIFTING PROCEDURE
		3.2	STRATING PORTABLE GENERATOR	3	UNLIKELY	3	MINOR	4	LOW	- MANUAL HANDLING TECHNIQUE
	NOISE	4.1	HEARING DAMAGE DUE TO LONG TERM USE	3	UNLIKELY	3	MINOR	3	MEDIUM	- ALWAYS WEAR HEARING PROTECTION WHILST OPERATION AND/ OR IN CLOSE VICINITY OF THE MACHINE

NOTES:

> THIS DOCUMENT HAS BEEN PREPARED ACCORDING TO GUIDELINES AND RECOMMENDATIONS FOUND IN:

1. 'HAZPAK' PRODUCED BY THE WORK-COVER 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**

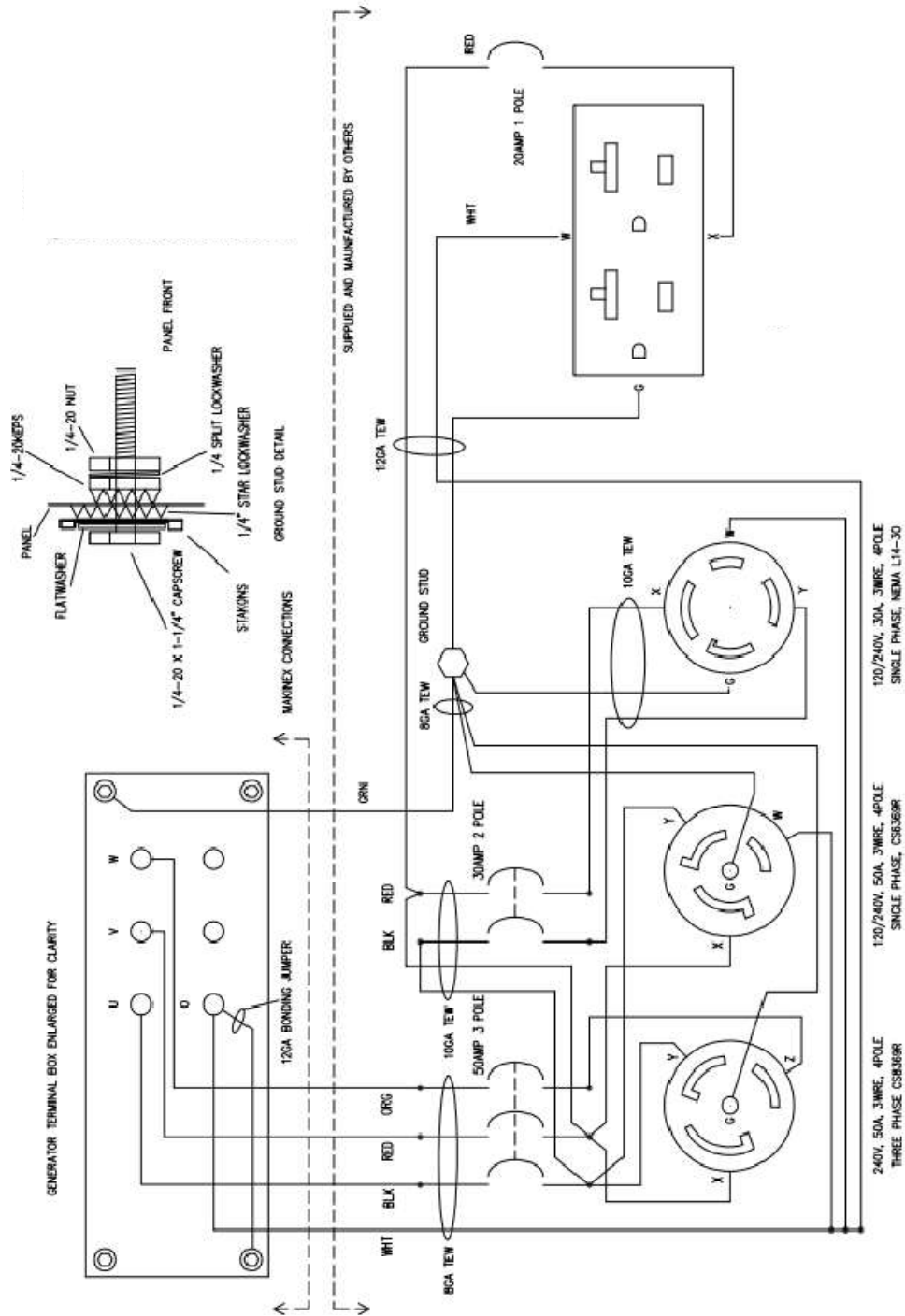
"CONSEQUENCE" REFERS TO THE SEVERITY OF INJURY CAUSED DUE TO AN EVENT OCCURRING, USING THE FOLLOWING SCALE AS DEFINED BY THE "HAZPAK" DOCUMENT:

1. **FATALITY** = INJURIES RESULT IN DEATH
2. **MAJOR** = NORMALLY IRREVERSIBLE INJURIES
3. **MINOR** = REVERSIBLE INJURIES REQUIRING SEVERAL DAYS OFF

"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

APPENDIX B- WIRING DIAGRAMS



APPENDIX C – ALTERNATOR DIAGRAMS

Generator - 16kW 240V



WARNING

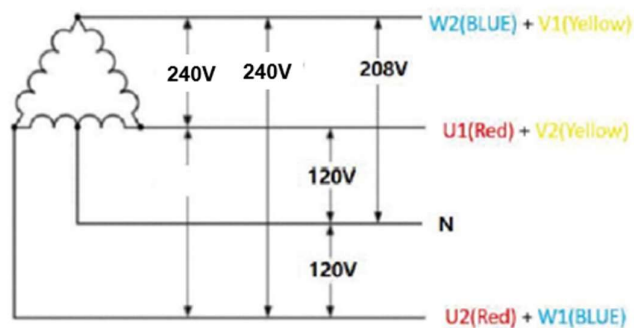
Generators and its associated systems can be dangerous. Any maintenance or repairs must be performed by qualified persons as per local regulations. If you are unsure, do not proceed.

Voltage Diagram

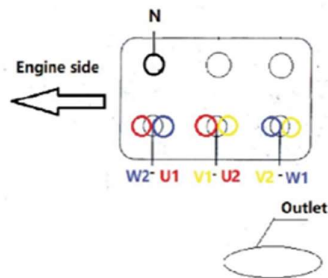
RF2-17.5-7

60Hz, 120V/240V, 3P, USA

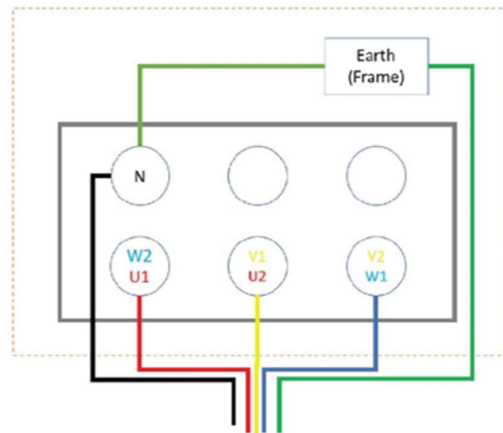
Please note: The alternator is configured in a delta (Δ) connection with a tapped in earth. This will differ from a star (Y) configuration whereby one phase to neutral will have a larger voltage to the rest (i.e. 208V).



Terminal Block & Connections



Please note: Colours depicted are used as a reference between diagrams only and may differ from local wire colour standards.



Output 1: 3P 240V, W2U1 - V1U2 - V2W1
Output 2: 1P 240V, W2U1 - V1U2 - N / 120V, W2U1 - N
Output 3: 1P 240V, W2U1 - V1U2 - N / 120V, W2U1 - N
Output 4: 1P 120V, W2U1 - N

