patron®



GH11000

OPERATORS MANUAL

1.2024

TABLE OF CONTENTS

INTRODUCTION
Introduction & Identification Numbers 3

IMPORTANT SAFETY WARNINGS
Safety Warnings..... 4

SET-UP
Component List..... 8
Assembly 9
Control Panels..... 11
Outlet Function..... 12

OPERATION
Pre-Operation Safety & Inspection Procedures 13
Start-Up Procedure 14
Shutdown Procedure 14
General Operation..... 15

MAINTENANCE
Maintenance Schedule..... 18
Spark Plug Replacement..... 19
Oil Service..... 20
Air Filter 21
Storage 22

TROUBLESHOOTING
Troubleshooting Table 23
Circuit Diagram..... 26

WARRANTY
Warranty Statement 27

INTRODUCTION & PRODUCT INFO

Congratulations on your purchase of a Rentquip Canada Limited generator. You can be confident that this generator is constructed and tested with optimum performance and quality in mind.

Reading this manual will help get you the best results for set-up, operation, maintenance and avoid personal injury or damage to your machine. By knowing how best to operate this machine, you will be better positioned to show others who may also operate the unit.

All the information in this manual is based on the latest product information available at the time of printing. Rentquip Canada Limited reserves the right to make changes at any time without notice or incurring any obligation.

All Rentquip Canada Limited Portable Generators are tested in our factory and may contain residual oil and/or fuel odour; EPA and CARB Compliant.

Owner/Operator Responsibility

The owner/operator must have a thorough understanding of the operation, maintenance and dangers associated with using this machine. It must be understood that it is ultimately up to the owner/operator to safely use this machine as outlined in this manual.

This manual is considered a part of the machine and needs to be kept in a safe location. If the machine is resold or given to someone else, this manual needs to be included.

It is recommended that you record the product identification numbers in this manual. These numbers are important to have on hand if you need to contact technical support **(1-800-818-1199).** The model and serial number can be found on the box and on a decal on the machine.

PRODUCT IDENTIFICATION

Model Number: _____

Serial Number: _____

Date of Purchase: _____

Dealer Name: _____

*** THE ACTUAL PRODUCT MAY VARY FROM THE IMAGES SHOWN IN THE MANUAL.**

SAVE THESE INSTRUCTIONS - SAFETY RULES



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

The safety alert symbol (⚠) is used with a signal word (**DANGER, CAUTION, WARNING**), a pictorial and a safety message to alert you to hazards.

DANGER indicates a hazard that, if not avoided, will result in death or serious injury.

WARNING indicates a hazard that, if not avoided, could result in death or serious injury.

CAUTION indicates a hazard that, if not avoided, might result in minor or moderate injury.

NOTICE indicates a situation that could result in equipment or property damage.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

WARNING – When using this product, the following precautions should always be observed and adhered to.

1. Read all instructions before using the product.
2. To reduce the risk of injury, close supervision is necessary when a product is used near children.
3. Know how to shut the product off. Be thoroughly familiar with the controls.
4. Stay alert. Watch what you are doing.
5. Do not operate the product when fatigued or under the influence of alcohol or drugs.
6. Do not overreach or stand on unstable support. Instead, keep solid footing and balance at all times.
7. Follow the maintenance instructions specified in the manual.

⚠ **WARNING** - Generator exhaust contains carbon monoxide, a poisonous gas that can kill you.

- Use the generator outdoors, away from open windows, vents, or doors that could allow the carbon monoxide gas to come indoors. Keep the generator at least 1 meter (3 feet) away from any structure or building during use.
- NEVER use a generator indoors, including in homes, garages, basements, crawl spaces, and other enclosed or partially-enclosed areas, even with ventilation. Opening doors and windows or using fans will not prevent carbon monoxide build-up in the home.
- Never use a generator in enclosed or partially-enclosed spaces.

  Generators can produce high levels of carbon monoxide very quickly. When you use a portable generator, remember that you cannot smell or see carbon monoxide. Even if you can't smell exhaust fumes, you may still be exposed to carbon monoxide.

- NEVER operate the generator in an explosive atmosphere, near combustible materials or where ventilation is not sufficient to carry away exhaust fumes. Exhaust fumes can cause serious injury or death.
- If you start to feel sick, dizzy, or weak while using a generator, get to fresh air RIGHT AWAY. DO NOT DELAY. The carbon monoxide from generators can rapidly lead to full incapacitation and death.
- If you experience serious symptoms, get medical attention immediately. Inform medical staff that carbon monoxide poisoning is suspected. If you experienced symptoms while indoors, have someone call the fire department to determine when it is safe to re-enter the building.

⚠ **WARNING** - Starter cord kickback (rapid retraction) will pull hand and arm toward engine faster than you can let go which could cause broken bones, fractures, bruises, or sprains resulting in serious injury.

- When starting the engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- NEVER start or stop engine with electrical devices plugged in and turned on.

⚠ **WARNING** - Fuel and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death.

- Observe all safety regulations for the safe handling of fuel. Handle fuel in safety containers. If the container does not have a spout, use a funnel.
- Do not overfill the fuel tank, leave room for the fuel to expand.
- Do not refill fuel tank while the engine is running. Before refueling the generator, turn it off and let it cool down. Gasoline spilled on hot engine parts could ignite.
- Fill the tank only on an area of bare ground. While fueling the tank, keep heat, sparks and open flame away. Carefully clean up any spilled fuel before starting engine.
- Always fill fuel tank in an area with plenty of ventilation to avoid inhaling dangerous fumes.
- NEVER store fuel for your generator in the home. Gasoline, propane, kerosene, and other flammable liquids should be stored outside of living areas in properly-labeled, non-glass safety containers. Do not store them near a fuel-burning appliance, such as a natural gas water heater in a garage. If the fuel is spilled or the container is not sealed properly, invisible vapors from the fuel can travel along the ground and can be ignited by the appliance's pilot light or by arcing from electric switches in the appliance.



This product has been designed with internal grounding or floating bonded neutral. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

⚠ **DANGER** - Improper grounding can result in a risk of electrocution. Check with a qualified electrician for your local requirements if you are in doubt as to whether the unit is properly grounded.

- This generator is equipped with a grounding terminal for added protection. Using the ground path from the generator to an external ground source as instructed in the section labeled “Grounding Instructions” in the Preparation section of this manual can be necessary. Please consult a qualified electrician for local regulations.
- The generator is a potential source of electrical shock if not kept dry.
- Keep the generator dry and do not use in rain or wet conditions. To protect from moisture, operate it on a dry surface under an open, canopy-like structure. Dry your hands if wet before touching the generator.
- Plug appliances directly into the generator. Or, use a heavy duty, outdoor-rated extension cord that is rated (in watts or amps) at least equal to the sum of the connected appliance loads. Check that the entire cord is free of cuts or tears and that the plug has all three prongs,especially a grounding pin.
- NEVER try to power the house wiring by plugging the generator into a wall outlet, a practice known as “back feeding”. This is an extremely dangerous practice that presents an electrocution risk to utility workers and neighbors served by the same utility transformer. It also bypasses some of the built-in household circuit protection devices. If you must connect the generator to the house wiring to power appliances, have a qualified electrician install the appropriate equipment in accordance with local electrical codes.

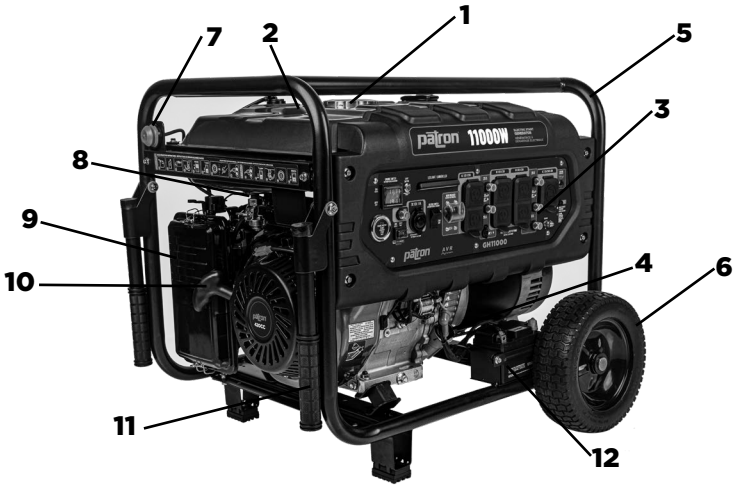
⚠ **WARNING** - To reduce the risk of injury, read this operator’s manual completely before using. When using this product, the following basic precautions should always be followed.

- Do not enclose the generator or cover it. The generator may become overheated if it is enclosed. If generator has been covered to protect if from the weather during non use, be sure to remove it and keep it well away from the area during generator use.
- Operate the generator on a level surface. It is not necessary to prepare a special foundation for the generator. However, the generator will vibrate on an irregular surface, so choose a level place. If the generator is tilted or moved during operation, fuel may spill and/or the generator may tip over, causing a hazardous situation. Proper lubrication cannot be expected if the generator is operated on a steep incline or slope. In such a case, piston seizure may occur even if the oil is above the upper level.
- Pay attention to the wiring or extension cords from the generator to the connected device. If the wire is under the generator or in contact with vibrating part, it may break and possibly cause a fire, generator burnout, or electric shock hazard. Replace damaged or worn cords immediately.

- Do not operate in rain, in wet or damp conditions, or with wet hands. The operator may suffer severe electric shock if the generator is wet due to rain or snow. If wet, wipe and dry it well before starting. Do not pour water directly over the generator, nor wash it with water.
- Be extremely careful that all necessary electrical grounding procedures are followed during each and every use. Failure to do so can be fatal.
- DO NOT smoke while charging a battery. The battery emits flammable hydrogen gas, which can explode if exposed to electric arcing or open flame. Keep the area well ventilated and keep open flames / sparks away when charging a battery.
- The engine becomes extremely hot during and for some time after operation. Keep combustible materials well away from generator area. Be very careful not to touch any parts of the hot engine especially the muffler area or serious burns may result
- Keep children and all bystanders at a safe distance from work area.
- It is absolutely essential that you know the safe and proper use of the power tool or appliance that you intend to use. All operators must read, understand and follow the tool / appliance owners manual. Tool and appliance applications and limitations must be understood. Follow all directions given on labels and warnings. Keep all instruction manuals and literature in a safe place for future reference.
- Use only “LISTED” extension cords. When a tool or appliance is used outdoors, use only extension cords marked “For Outdoor Use”. Extension cords, when not in use should be stored in a dry and well ventilated area.
- Always switch off generator’s AC circuit breaker and disconnect tools or appliances when not in use, before servicing, adjusting, or installing accessories and attachments.
- Make sure the engine is stopped before starting any maintenance, servicing or repair.

NOTE:
Ensure maintenance and repair of the generator are performed by properly trained personnel only.

SAVE THESE INSTRUCTIONS



1: Fuel Tank Cap - Provides access to the fuel tank for refueling purposes.

2: Fuel Tank - Storage for fuel

3: Control Panel - Contains all controls and plugs for the controlling the generator.

4: Magnetic Oil Dipstick - Multipurpose dip stick that absorbs iron filings that may get into your engine oil and allows the user to check oil levels. Clean the dipstick every 50 hours.

5: Generator Frame - Protects the internals of the generator and allows the user to transport the unit.

6: Wheels - Flat-free wheels that are able to navigate through rough terrain with ease.

7: Fuel Primer - Primes the engine for easier starts when pressed by pumping small amounts of fuel into the engine. It is recommended to use this when starting the engine in a cold environment or if it has been an extended period of time since the last start.

8: Fuel Valve - Prevents or allows fuel to reach the ignition system.

9: Air Filter - Prevents contaminants from reaching the intake of your engine.

10: Recoil Handle - Can be pulled to start the engine.

11: Handle - Can be used to easily transport the unit around.

12: Battery - Supplies power to the electric start system.

ASSEMBLY - PARTS

PART	DESCRIPTION	QUANTITY
	WHEELS 10” WHEEL	2
	HANDLES 32 CM	2
	SUPPORT FEET	2
	WHEEL SHAFT 19MM DIAMETER	2
	CIRCULAR GASKET 19MM DIAMETER	2
	R PIN	2
	CIRCULAR GASKET	4
	M8x45 BOLT	2
	M8x16 BOLT	4
	M8 NUT	6

SUPPORT FOOT INSTALLATION

1. Align the two holes on the support foot with the two holes on the bottom of the frame. Place two bolts through the support foot hole and the frame hole.




2. Fasten the nut to the bolt, tighten with a wrench.

Repeat the same process to install the other support foot.




WHEEL INSTALLATION

1. Slide the wheel shaft through the wheel and the circular gasket. After, slide the wheel through the hole on the frame.




2. Insert the R pin into the hole at the end of the wheel shaft to prevent the wheel from coming off.

Repeat the same process to install the other support foot.



HANDLE INSTALLATION

1. Place two washers into the holes on the left and right sides of the handle. Slide the bolt through the holes on the handle and through the holes on the frame.

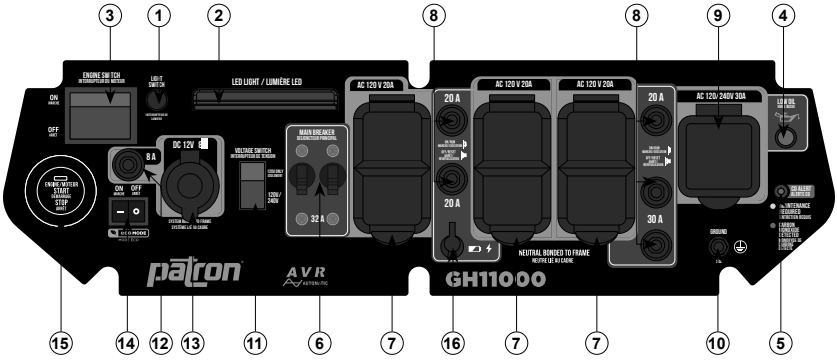



2. Fasten the nut to the bolt and tight with a wrench.

Repeat the same process to install the other handle.

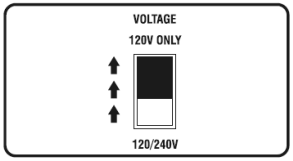


CONTROL PANEL - GH11000

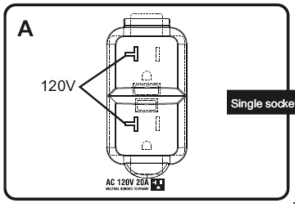


1: Light Switch - Press once to turn the LED light on. Press again to turn the light off.
2: LED Light
3: Engine Switch - Press ON to start the engine, press OFF to turn the engine off.
4: Low Oil Indicator - If this light glows red, it means the engine is low on oil.
5: Carbon Monoxide Alarm - A **flashing red light** indicates a dangerous build up of carbon monoxide gas has been detected in the area the generator is located. Vacate this area immediately until it has been aired out. A **flashing yellow light** indicates a malfunction in the carbon monoxide sensor and it needs to be serviced.
6: Main Breaker - A circuit breaker interrupts the current when the circuit has been overloaded.
7: 120V AC 20A 5-20R Outlet - The outlet is capable of carrying a maximum of 20 amps.
8: AC Protector - If the generator is overloaded, the AC protector will trip and block current.
9: 120/240V AC 30A L14-30R Outlet - The outlet is capable of carrying a maximum of 30 amps.
10: Ground Terminal - The ground terminal is used to externally ground the generator.
11: Voltage Switch - Allows the user to switch between 120 and 240 volts as needed.
12: DC Protector - If the generator is overloaded the DC protector will trip to block current
13: 12V DC Outlet - 12 volt DC 8 amp outlet.
14: ECO Mode - When turned on, the engine will conserve fuel by sensing the necessary load and running at a lower RPM to save fuel.
15: One Touch Start - Pressing this button will start the generator without having to pull the recoil.
16: Battery charging Port - Allows the user to charge their battery.

IF THE VOLTAGE SWITCH IS SET TO 120V ONLY

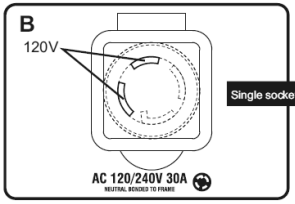


Set the voltage switch to “120V ONLY”



Single socket output

Output voltage 120V current 20A.
120V (Voltage) X 20A (Current)= 2400W (Output Power)

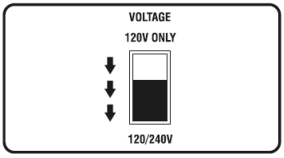


Single socket output

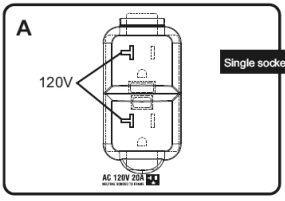
Output voltage can only be 120V and the current can only be 30A.
120V (Voltage) X 30A (Current)= 3600W (Output Power)

ATTENTION: The total power output of the socket must not exceed the rated power of the generator.

IF THE VOLTAGE SWITCH IS SET TO 120/240V



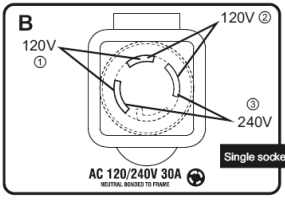
Set the voltage switch to “120V/240V”

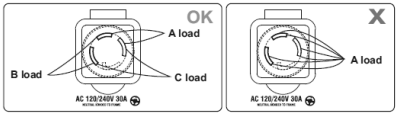


Single socket output

Output voltage 120V current 20A.
120V (Voltage) X 20A (Current)= 2400W (Output Power)

Output voltage 120V current 30A.
1&2 120V socket: 120V(Voltage) X 30A (Current)= 3600W (Output Power)





Single socket output

ATTENTION: 1&2&3 can output at the same time, the the total power output of the socket can not exceed the rated power of the generator, can not be connected to the same load.

REFUELING:

⚠ **DANGER - GASOLINE IS HIGHLY FLAMMABLE AND TOXIC. DO NOT OVERFILL THE FUEL TANK. TIGHTEN FUEL CAP ONCE YOU HAVE REFILLED THE MACHINE.**

1. Remove the fuel tank cap and add at least 87 octane gasoline.

⚠ **ATTENTION -** IF YOU SPILL FUEL WHILE REFILLING THE UNIT, BE SURE TO WIPE UP AND EXCESS FUEL THAT MAY HAVE SPILLED.

ONLY USE UNLEADED GASOLINE TO FILL THIS UNIT. USING LEADED GASOLINE WILL SERIOUSLY DAMAGE THE INTERNALS OF THE ENGINE.

OIL:

THIS GENERATOR IS SHIPPED WITHOUT OIL IN THE ENGINE. FILL YOUR UNIT WITH THE PROVIDED OIL PRIOR TO FIRST USE.

1. Ensure your unit is placed on a flat surface.
2. Unscrew the dipstick and add the provided bottle of **SAE 10W-30** oil to the engine.
3. Put your dipstick back into place and tighten it.

NOTE: If you plan on using this unit in colder climates, it is recommended to use SAE-0W30 oil.

PRE-OPERATION INSPECTION:

Prior to each use of your unit, ensure you perform these checks to prevent any potential failures.

COMPONENT	CHECK	SOLUTIONS
Fuel	Ensure your unit has fuel in it.	Fill your unit with fuel if necessary.
Oil	Check your oil levels.	Add oil if necessary.
	Check for any oil leaks.	Contact a service center for help.
Abnormal conditions during operation.	Check operating condition of the generator.	Contact a service center for help.
Battery	Check if the battery is charged.	See the “battery charging” page.

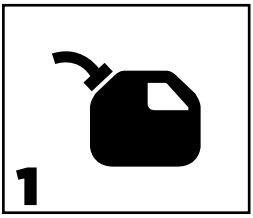
LOW TEMPERATURE ENVIRONMENTS:

Starting your generator in cold climates (-5ºC (23ºF) to -20ºC (-4ºF)) may be difficult. To help alleviate this issue, you can press the priming pump on the side of the generator, which will help by forcing fuel into the engines combustion chamber.

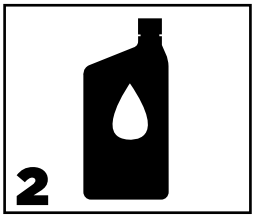
If you plan on using this unit in colder climates, it is recommended to use SAE-0W30 oil.



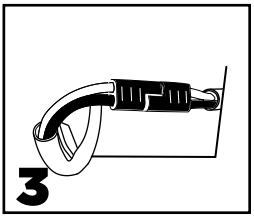
START-UP PROCEDURE



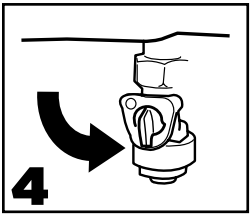
FILL THE UNIT WITH 87 OCTANE GASOLINE.



FILL UNIT WITH OIL OR CHECK OIL LEVELS AS NEEDED.



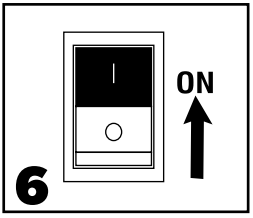
CONNECT THE BATTERY BY ATTACHING THE CLIPS.



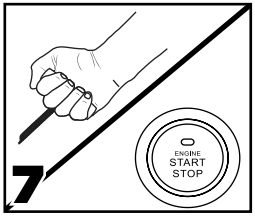
TURN FUEL SWITCH TO “ON” POSITION.



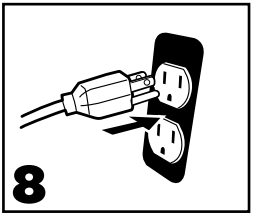
FLIP ECO MODE SWITCH TO "OFF"*



PRESS ENGINE SWITCH ON THE "ON" POSITION.

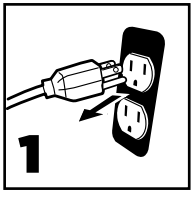


PULL THE RECOIL HANDLE OR PRESS START BUTTON.



PLUG YOUR DESIRED EQUIPMENT INTO THE UNIT.

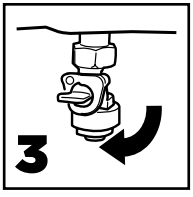
SHUT DOWN PROCEDURE



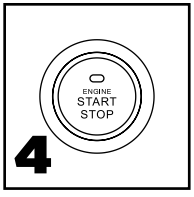
UNPLUG ALL POWER CORDS FROM THE UNIT.



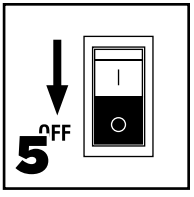
FLIP ECO MODE SWITCH TO "OFF"*



TURN FUEL SWITCH TO THE "OFF" POSITION.



PRESS STOP BUTTON TO TURN UNIT OFF.



SWITCH ENGINE SWITCH TO "OFF.

OPTIMAL ENVIRONMENT

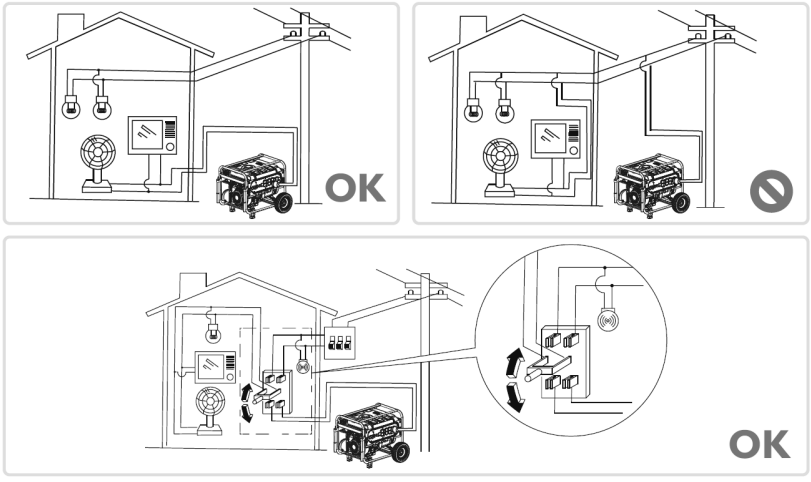
AMBIENT TEMPERATURE	-20ºC to 40ºC
OPTIMAL HUMIDITY	Below 95%
OPTIMAL ALTITUDE	Below 1,500m (At regions above 1,000m the unit will generate less power)

In certain environments, total output power can be affected.

- Every 5ºC increase in ambient temperature above optimal will reduce your units output by ~2%.
- Every 30% increase in relative humidity will reduce the total output of your generator by ~1.5%

GENERATOR WIRING

- If you decide to connect your generator to your household power as a backup power supply, ensure the task is done by a professional electrician.
- Always check any device, cable or other accessory that you plug into the generator is safe and reliable. A damaged connection may cause damage to the generator and is a potential fire hazard.
- Avoid connecting this generator directly to any commercial power outlet.
- When using extension cables, ensure the cable is suited for the load you will be applying to it. Always make sure your extension cable is not damaged.



BEFORE CONNECTING POWER

- Make sure all electrical equipment, including wires and plugs, are in good condition before connecting to the generator.
- Make sure all loads driven by the generator are within the rated load range.
- Ensure the connected load is within the rated range for current.

⚠ **ATTENTION**: IT IS RECOMMENDED TO GROUND YOUR GENERATOR BEFORE EACH USE. IF THE ELECTRICAL EQUIPMENT REQUIRES IT, YOU MUST GROUND YOUR GENERATOR AS IT CAN LEAD TO DAMAGE TO BOTH YOUR UNIT AND YOUR EQUIPMENT.

CONNECTING POWER

1. Start the engine.
2. Turn eco mode switch to the “on” position.
3. Insert plug into desired AC outlet.
4. Ensure AC indicator light is on.
5. Turn your equipment on.

TIP: BEFORE INCREASING ENGINE SPEED, ECO MODE MUST BE OFF. IF YOU ARE CONNECTING MULTIPLE LOADS TO THE GENERATOR, CONNECT THEM FROM LARGEST TO SMALLEST, ACCORDING TO THE ELECTRICAL LOAD.

GENERATOR GROUNDING

In order to prevent any damage to the generator caused by electric shock or improper electric application, it is recommended that the generator is grounded with a good conductor with insulating sheath.

1. Use a grounding wire with sufficient electrical energy capacity.
2. Connect one end of the grounding wire to the grounding bolt on the generators control panel.
3. Insert the grounding body (iron road with a diameter of 0.5 - 1cm) at least 20cm into the earth.
4. Connect the other side of the grounding wire to the grounding body.



BATTERY CHARGING

The lifespan of a battery in storage is about 6 months. If your generator isn't used for a long time, the battery will lose charge. If the battery loses charge, you can attempt to recharge it. If charging the battery does not work, you must replace the battery.

CHARGING METHODS

Starting the Generator: Use the recoil starter to start the generator. This will allow the unit to charge the battery

External Charger: Connect the charger to the battery on the generator and then connect the mains to charge the battery.

⚠ **WARNING**:DO NOT START THE GENERATOR WHILE CHARGING WITH AN EXTERNAL POWER SUPPLY. KEEP BATTERIES AWAY FROM FIRE SOURCES. KEEP THE BATTERY IN A COOL AND DRY PLACE, AWAY FROM DIRECT SUNLIGHT. KEEP BATTERIES OUT OF REACH OF CHILDREN.

Charge your battery properly:

- Keeping lithium-ion batteries properly charged and discharged can prolong battery life. Maintaining a power level of 10% - 90% in lithium-ion batteries is beneficial for battery protection.

Charge your battery at the right temperature:

- Never charge your battery if the temperature is not within 0ºC to 45ºC.

Avoid overcharging:

- Overcharging lithium-ion batteries should be avoided at all costs. Overcharging a lithium-ion battery will lead to serious degradation of battery performance, damage to the battery itself, or in some cases can cause an explosion.

MAINTENANCE SCHEDULE

Following the maintenance schedule is the best way to ensure safe, economical, and zero-failure operation. In order to maintain good condition, you must inspect your unit regularly.

ITEM \ MAINTENANCE CYCLE		EACH USE	EACH MONTH OR 20 HOURS	EVERY 3 MONTHS OR 50 HOURS	EACH YEAR OR 100 HOURS
ENGINE OIL	CHECK/FILL	✓			
	REPLACE		✓		
AIR CLEANER	INSPECTION	✓			
	CLEAN		✓		
	REPLACE			✓	
SPARK PLUG	CLEAN/ADJUST				✓*
SPARK ARRESTOR	CLEAN			✓	
IDLE SPEED	CHECK/ADJUST				✓
VALVE CLEARANCE	CHECK/ADJUST				✓
FUEL TANK AND FUEL FILTER	CLEAN				✓
FUEL LINE	INSPECTION	EVERY 2 YEARS (REPLACE IF NECESSARY)			
CYLINDER HEAD, PISTON	REMOVE CARBON DEPOSIT**	IF THE ENGINE IS LESS THAN 225CC, EVERY 125 HOURS. IF THE ENGINE IS MORE THAN 225CC, EVERY 250 HOURS.			

* REPLACE IF NECESSARY
** MUST BE SERVICED BY AN AUTHORIZED SERVICE CENTER

⚠ ATTENTION:

- If your unit is often used in environments with high temperatures or is consistently at a high load, change the oil every 25 hours.
- If your unit is often used in dusty or harsh environments, the air cleaner should be cleaned every 10 hours. If necessary, the air cleaner should be changed every 25 hours.
- If the maintenance cycle time has elapsed, perform necessary maintenance as soon as possible.

SPARK PLUG REPLACEMENT

⚠ **WARNING**: ALWAYS SHUT DOWN THE ENGINE BEFORE PERFORMING ANY MAINTENANCE. IN ORDER TO PREVENT THE ENGINE FROM STARTING, REMOVE THE SPARK PLUG CAP FROM THE SPARK PLUG.

The spark plug is an important part of the generator, which must be inspected regularly.

1. Remove the high voltage assembly.



2. Use a ratchet and 13/16 spark plug socket (included with your generator) to unscrew and remove the spark plug.



3. Check for any discolouration and remove any buildup of carbon deposits. Check the spark plug for pale or moderate brown coloration on the ceramic cores around the center electrode.



4. Check the model of spark plug and clearance.

Spark plug gap: 0.7-0.8mm



BRAND	MODEL
NGK	BPR6ES
TORCH	F6RTC

5. Install the spark plugs in reverse order of removal.

Spark plug torque: 22.5±2.5Nm (199±22 inch-lb)



TIP: IF YOU DO NOT HAVE A TORQUE WRENCH WHEN INSTALLING THE SPARK PLUG, YOU CAN INSTALL IT USING 1/4 - 1/2 TURNS

CARBURETOR ADJUSTMENT

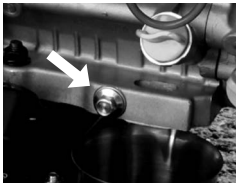
The carburetor is an important component of the engine. If the carburetor needs to be serviced, contact your service center to have a professional ensure that necessary adjustments are done correctly.

OIL REPLACEMENT

⚠ **WARNING**: DO NOT DRAIN OIL IMMEDIATELY AFTER OPERATING YOUR UNIT. THE OIL WILL BE VERY HOT AND SHOULD BE LEFT TO COOL DOWN IN ORDER TO PREVENT INJURY OR BURNS.

1. Place the generator on a flat surface.

2. Unscrew the drain bolt.





3. Place a container underneath the drain hole and tilt the machine to allow the oil to drain. Once drained, tighten the drain bolt back into place.



4. Refill oil to the correct level and tighten the dipstick.



RECOMMENDED OIL	SAE-10W30
OIL GRADE	API STANDARD MODEL SJ OR HIGHER
VOLUME	REFER TO TECHNICAL PARAMETERS TABLE

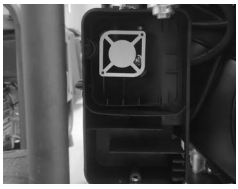
AIR FILTER SERVICE

The air filter can get dirty after prolonged use and needs to be cleaned or replaced regularly. If frequently operating in dusty environments, maintenance must be done more often.

1. Open the air filter cover.

Bolt type locking:
Remove screws to remove the cover plate





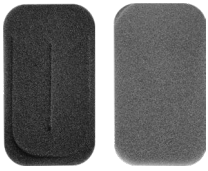
Snap on locking:
Pull the clamps on the upper and lower ends of the air filter upwards and remove the air filter cover.





2. Clean foam filter element with cleaning solvent and allow it to air dry. Place a few drops of oil on the filter.

ATTENTION: THE AIR FILTER IS DELICATE. DO NOT FORCIBLY TWIST THE FILTER TO PREVENT DAMAGE.



3. Put the foam air filter back into place.

TIP: MAKE SURE THAT THE SURFACE OF THE FILTER IS IN CLOSE CONTACT WITH THE INTAKE. MAKE SURE THERE ARE NO GAPS

DO NOT START THE ENGINE WITHOUT THE AIR FILTER IN PLACE.



4. Reinstall the cover for the air cleaner.





FUEL FILTER CLEANING

1. Remove the fuel tank cap and fuel filter screen.
2. Clean the filter screen with gasoline.
3. Wipe the filter screen dry and place back into tank.
4. Reassemble the fuel tank cap.

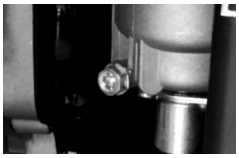


If you are planning to store your generator for **longer than 3 months**, it is important to follow the necessary storage procedure to prevent damage to the machine.

1. Follow the shutdown procedure to shut down your generator.
2. Drain the fuel from the fuel tank.
3. Start the engine in order to burn off remaining fuel from the carburetor.

TIP: DO NOT CONNECT ANY ELECTRICAL EQUIPMENT TO THE GENERATOR DURING THIS PROCESS. THE ENGINE RUN TIME WILL DEPEND ON HOW MUCH LEFTOVER FUEL WAS IN THE TANK.

4. Locate the drain bolt on the carburetor and place a container underneath it.



5. Loosen the carburetor drain bolt until you begin to see fuel draining from the carburetor.



6. Allow the fuel to drain into the container until none remains. Tighten the drain bolt back into place.



7. Follow the oil change procedure (page 20).

8. Gently pull the recoil handle until you feel resistance. This allows the inelt and outlet valves to close.



9. Place your unit is a clean and dry area.

TRANSPORT TIPS

When transporting your unit, ensure there is no way for fuel to spill out of the generator.

- Do not overfill the fuel tank.
- Do not operate the generator while in transport.
- Avoid placing the unit in direct sunlight.

TROUBLESHOOTING

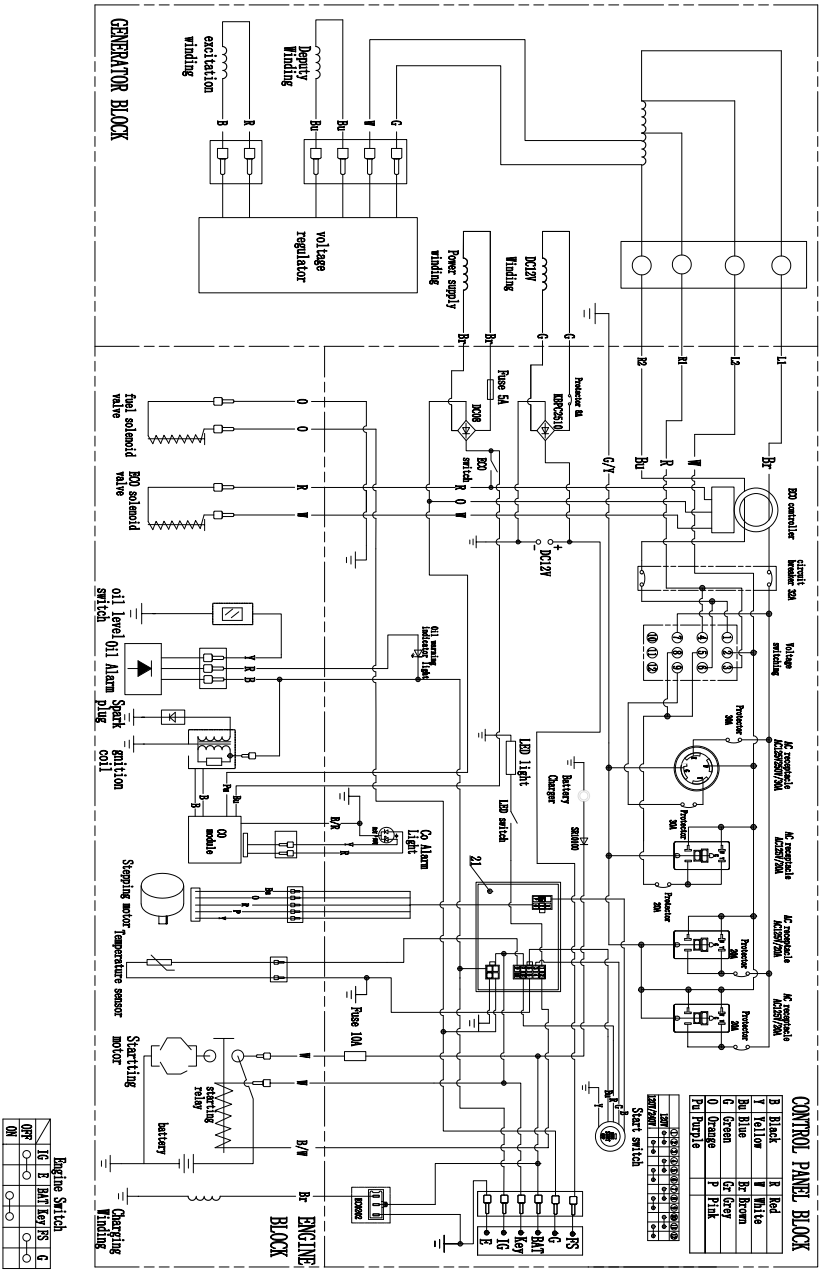
PROBLEM	POSSIBLE CAUSE	SOLUTION
ENGINE WILL NOT START	FUEL RELATED: 1. No fuel in tank or fuel valve closed.	FUEL RELATED: 1. Fill fuel tank with fresh 87+ octane gasoline and open the fuel valve. Do not use gasoline with more than 10% ethanol (E15,E20,E85 etc.)
	2. Choke not in START position/cold engine	2. Move choke to START position.
	3. Gasoline with more than 10% ethanol was used.	3. Clean out ethanol rich gasoline from fuel system. Replace components damaged by ethanol. Fill fuel tank with fresh 87+ octane gasoline and open the fuel valve. Do not use gasoline with more than 10% ethanol (E15,E20,E85 etc.)
	4. Low quality or old gasoline.	4. Fill fuel tank with fresh 87+ octane gasoline and open the fuel valve. Do not use gasoline with more than 10% ethanol (E15,E20,E85 etc.)
	5. Dirty fuel passageways.	5. Clean out passageways using fuel additive. Heavy deposits may require further cleaning.
	6. Carburetor needle stuck. Fuel can be smelled in the air.	6. Gentle tap side of carburetor flat chamber with screwdriver handle.
	7. Too much fuel in chamber.	7. Turn choke to RUN position. Remove spark plug and pull the recoil handle several times to air out the chamber. Reinstall spark plug and set the choke to START.
	8. Clogged fuel filter.	8. Replace fuel filter.
	IGNITION (SPARK RELATED): 1. Power switch in OFF position.	IGNITION (SPARK RELATED): 1. Turn power switch ON
	2. Spark plug cap not connected securely.	2. Reconnect spark plug cap
	3. Spark plug electrode wet or dirty.	3. Clean spark plug
	4. Incorrect spark plug gap.	4. Correct the spark plug cap.
	5. Spark plug cap broken.	5. Replace the spark plug cap.
	6. Circuit breaker tripped.	6. Reset circuit breaker. Check wiring and start motor if breaker continues to trip.
	7. Incorrect spark timing or faulty ignition system.	7. Have qualified repair technician diagnose/ repair ignition system.
	COMPRESSION RELATED: 1. Cylinder not lubricated. Can happen after long storage periods.	COMPRESSION RELATED: 1. Pour tablespoon of oil into sparkplug hole. Crank engine a few times and try to start.
	2. Loose or broken spark plug. (hissing noise when trying to start.)	2. Tighten spark plug. If that does not work, replace spark plug.
	3. Loose cylinder head or damaged head gasket. (hissing noise when trying to start.)	3. Tighten head, if that doesn't work, replace the head gasket.
	4. Engine valves or or tappets misaligned or stuck.	4. Have qualified repair technician adjust/ repair valves and tappets.
	ENGINE OIL RELATED: 1. Low engine oil	ENGINE OIL RELATED: 1. Fill engine oil to proper level. Check engine oil before EVERY use.
	2. Unit on slope, triggering the low oil shutdown.	2. Operate unit on a level surface. Check engine oil level.
	SPARK ARRESTOR: 1. Low engine oil	SPARK ARRESTOR: 1. Clean and replace spark arrestor.

PROBLEM	POSSIBLE CAUSE	SOLUTION
ENGINE MISFIRES	1. Spark plug cap is loose.	1. Check cap and wire connections
	2. Incorrect spark plug gap or damaged spark plug.	2. Re-gap or replace spark plug.
	3. Defective spark plug cap.	3. Replace spark plug cap.
	4. Old or low quality gasoline.	4. Fill fuel tank with fresh 87+ octane gasoline and open the fuel valve. Do not use gasoline with more than 10% ethanol (E15,E20,E85 etc.)
	5. Incorrect compression.	5. Diagnose and repair compression. (refer to Engine will not start: COMPRESSION RELATED section.)
ENGINE STOPS SUDDENLY	1. Carbon monoxide level high. Red light on carbon monoxide sensor illuminates.	1. Leave area immediately and allow area to ventilate thoroughly. Only operate generator outside.
	2. CO sensor alarm flashes yellow shortly after starting.	2. Carbon monoxide sensor malfunction. Sensor needs service. Do not use generator until fixed.
	3. CO sensor alarm flashes yellow continually after longer period of operation.	3. Make sure to operate generator within rated ambient temperature; maintain minimum 5ft' clearance on all sides.
	4. Low oil shutdown.	4. Fill engine oil to proper level. Check engine oil before each use.
	5. Fuel tank empty or full of impure or low quality gasoline.	5. Fill fuel tank with fresh 87+ octane gasoline and open the fuel valve. Do not use gasoline with more than 10% ethanol (E15,E20,E85 etc.)
	6. Defective fuel tank cap creating vacuum, preventing proper fuel flow.	6. Test/replace fuel tank cap.
	7. Faulty magneto	7. Have qualified technician service magneto.
	8. Disconnected or improperly connected spark plug cap.	8. Secure spark plug cap.
ENGINE STOPS WHEN UNDER HEAVY LOAD	1. Dirty air filter.	1. Clean air filter.
	2. Engine running cold.	2. Allow engine to warm up before operating equipment.
ENGINE KNOCKS	1. Old or low quality gasoline.	1. Fill fuel tank with correct gasoline.
	2. Engine overloaded.	2. Do not exceed equipment's load rating.
	3. Incorrect spark timing, deposit buildup, worn engine, other mechanical issues.	3. Have a qualified technician diagnose and service the engine.
ENGINE BACKFIRES	1. Old or low quality gasoline.	1. Fill fuel tank with correct gasoline.
	2. Engine too cold.	2. Use cold weather fuel and oil additives to prevent backfiring.
	3. Intake valve stuck or engine overheated.	3. Have a qualified technician diagnose and service the engine.
	4. Incorrect timing.	4. Check engine timing.
ATTACHED DEVICE DOESN'T HAVE POWER	1. Device not plugged in properly.	1. Turn off and unplug the device, plug back in and turn back on.
	2. Circuit breaker tripped.	2. Turn off and unplug device. Reset circuit breaker. Plug in device, turn it on.
	3. Product needs service.	3. Have product serviced.
ATTACHED DEVICE BEGINS TO OPERATE ABNORMALLY	1. Device not plugged in properly.	1. Immediately unplug device. Have device serviced by a qualified technician.
	2. Circuit breaker tripped.	2. Lower the number of items plugged into the generator to stay within rated capacity.

TECHNICAL PARAMETERS

ITEM	GH11000
Rated Power (Kw)	7.2
Max Power (Kw)	11
Engine Model	190F/P-1
Valve Clearance	Input Valve: 0.10 ~ 0.15mm, Output Valve: 0.15 ~ 0.20mm
Stroke X Bore (Mm)	92x69
Engine Type	4-stroke
Displacement (Cc)	420
Gas Distribution Mode	OHV
Cooling Mode	Air Cooled
Rated Speed (Rpm)	3600
Starting Method	Recoil Start
Fuel Tank Volume (L)	25
Fuel Type And Grade	use unleaded gasoline (87 octane or higher)
Oil Capacity (ml)	1000
Oil Type	SAE 10W-30
Db @ 7m (25% Load)	72.6
Rated Voltage (V)	120/240
Rated Frequency (Hz)	60
Rated Power Factor	1
Phase Number	Single Phase
Run Time @25% (Hour)	14.5
Fuel Consumption Rate (25%) (L/h)	1.72
Fuel Consumption Rate (100%) (L/h)	4.54
THD	≤23%
Overall Dimension (in.)	27.01x 20.31x22.05
Net Weight (lb.)	177.95

CIRCUIT DIAGRAM - GH11000



WARRANTY STATEMENT

DURATION : The generator will be under warranty for three (3) years from the date of purchase by the original purchaser (retail customer).

WHO GIVES THIS WARRANTY (WARRANTOR):
RENTQUIP CANADA LIMITED

WHO RECEIVES THIS WARRANTY(PURCHASER):
The original purchaser (other than for purposes of resale) of the Rentquip Canada Limited generator.

WHAT PRODUCTS ARE COVERED BY THIS WARRANTY:
Any portable generator supplied or manufactured by Warrantor.

WHAT IS COVERED UNDER THIS WARRANTY:
Substantial defects on material and workmanship which occur within the duration of the warranty period.

WHAT IS NOT COVERED UNDER THIS WARRANTY:

- Transportation changes for sending the product to Warrantor or its authorized service representative for warranty service, or for shipping repaired or replacement products back to the customer; these charges must be borne by the customer.
- Damages caused by abuse, accident, shipping, misuse, overloading, modification, and the effects of corrosion, erosion and normal wear and tear.
- Warranty is voided if the customer fails to install, maintain and operate the product in accordance with the instructions and recommendations set forth in the owner's manual(s).
- Pre-delivery service, i.e. assembly, oil or lubricants, and adjustment.
- Items or service that are normally required to maintain the product, i.e. lubricants and filters.
- Warrantor will not pay for repairs or adjustments to the product, or for any costs or labour, performed without Warrantor's prior authorization.

RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:

- The purchaser must provide dated proof of purchase and must notify Warrantor within the warranty period.

HAVE QUESTIONS?
CALL: **+1 800-818-1199**

WARRANTY STATEMENT

PRODUCT IDENTIFICATION

Model Number: _____

Serial Number: _____

Date of Purchase: _____

Dealer Name: _____

NOTES

patron®

NEED HELP? CALL

+1 800-818-1199