OPERATOR'S MANUAL

MODEL #100519 6250W PORTABLE INVERTER GENERATOR



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at championpowerequipment.com









or visit championpowerequipment.com

SAVE THESE INSTRUCTIONS. This manual contains important safety precautions which should be read and understood before operating the product. Failure to do so could result in serious injury. This manual should remain with the product.

Specifications, descriptions and illustrations in this manual are as accurate as known at the time of publication, but are subject to change without notice. This product is rated in accordance with PGMA (Portable Generator Manufacturers' Association) standard ANSI/PGMA G300 (Safety and Performance of Portable Generators).

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INTRODUCTION

Congratulations on your purchase of a Champion Power Equipment (CPE) product. CPE designs, builds, and supports all of our products to strict specifications and guidelines. With proper product knowledge, safe use, and regular maintenance, this product should bring years of satisfying service.

Every effort has been made to ensure the accuracy and completeness of the information in this manual at the time of publication, and we reserve the right to change, alter and/ or improve the product and this document at any time without prior notice.

CPE highly values how our products are designed, manufactured, operated, and serviced as well as providing safety to the operator and those around the generator. Therefore, it is IMPORTANT to review this product manual and other product materials thoroughly and be fully aware and knowledgeable of the assembly, operation, dangers and maintenance of the product before use. Fully familiarize yourself, and make sure others who plan on operating the product fully familiarize themselves too, with the proper safety and operation procedures before each use. Please always exercise common sense and always err on the side of caution when operating the product to ensure no accident, property damage, or injury occurs. We want you to continue to use and be satisfied with your CPE product for years to come.

When contacting CPE about parts and/or service, you will need to supply the complete model and serial numbers of your product. Transcribe the information found on your product's nameplate label to the table below

CPE TECHNICAL SUPPORT TEAM	1
1-877-338-0999	
MODEL NUMBER	
100519	
SERIAL NUMBER	

DATE OF PURCHASE

PURCHASE LOCATION

SAFETY DEFINITIONS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

A DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

A WARNING

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

A CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

PNOTICE

NOTICE indicates information considered important, but not hazard-related (e.g., messages relating to property damage).

IMPORTANT SAFETY INSTRUCTIONS

A WARNING

Cancer and Reproductive Harm – <u>www.P65Warnings.ca.gov</u>

A DANGER

Generator exhaust contains carbon monoxide, a colorless, odorless, poisonous gas. Breathing carbon monoxide will cause nausea, dizziness, fainting or death. If you start to feel dizzy or weak, get to fresh air immediately.

OPERATE GENERATOR <u>OUTDOORS</u> ONLY IN A WELL VENTILATED AREA AND POINT EXHAUST AWAY.

DO NOT operate the generator inside any building, including garages, basements, crawlspaces and sheds, enclosure or compartment, including the generator compartment of a recreational vehicle.

DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings.

A DANGER

Using a generator indoors **CAN KILL YOU IN MINUTES**. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.

NEVER use inside a home or garage, **EVEN IF** doors and windows are open.

ONLY use **OUTSIDE** and far away from windows, doors, and vents.



Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer's instructions.

A WARNING

Although the generator contains a spark arrester, maintain a minimum distance of 5 ft. (1.5 m) from dry vegetation to prevent fires.

A DANGER

Operate equipment with guards in place.

Rotating parts can entangle hands, feet, hair, clothing and/ or accessories. Traumatic amputation or severe laceration can result.

Keep hands and feet away from rotating parts.

Tie up long hair and remove jewelry.

DO NOT wear loose-fitting clothing, dangling drawstrings or items that could become caught.

A DANGER

Generator produces powerful voltage.

DO NOT touch bare wires or receptacles.

DO NOT use electrical cords that are worn, damaged or frayed. Use only Champion electrical cords for proper application.

DO NOT operate generator in wet weather.

DO NOT allow children or unqualified persons to operate or service the generator.

Use a ground fault circuit interrupter (GFCI) in damp areas and areas containing conductive material such as metal decking.

Connection to your home's electrical system requires a listed 30A transfer switch installed by a licensed electrician and approved by the local authority having jurisdiction. The connection must isolate the generator from the utility power and must comply with all applicable laws and electrical codes.

A WARNING

Do not use generator for medical and life support uses.

In case of emergency, call 911 immediately.

NEVER use this product to power life support devices or life support appliances.

NEVER use this product to power medical devices or medical appliances.

Inform your electricity provider immediately if you or anyone in your household depends on electrical equipment to live.

Inform your electrical provider immediately if a loss of power would cause you or anyone in your household to experience a medical emergency.

IMPORTANT SAFETY INSTRUCTIONS

A WARNING

Spark from removed spark plug wire can result in fire or electrical shock.

When servicing the generator:

Disconnect the spark plug wire and place it where it cannot contact the plug or any other metal object.

DO NOT check for spark with the plug removed.

Use only approved spark plug testers.

A WARNING

Running engines produce heat. Severe burns can occur on contact. Combustible material can catch fire on contact.

DO NOT touch hot surfaces.

Avoid contact with hot exhaust gases.

Allow equipment to cool before touching.

Maintain at least 3 ft. (91.4 cm) of clearance on all sides to ensure adequate cooling.

Maintain at least 5 ft. (1.5 m) of clearance from combustible materials.

A WARNING

Rapid retraction of the starter cord will pull hand and arm towards the engine faster than you can let go. Unintentional startup can result in entanglement, traumatic amputation or laceration. Broken bones, fractures, bruises or sprains could result.

When starting engine, pull the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback.

DO NOT start or stop the engine with electrical devices plugged in and turned on.

A CAUTION

Exceeding the generator's running capacity can damage the generator and/or electrical devices connected to it.

- DO NOT overload the generator.
- DO NOT tamper with the governed speed.
- DO NOT modify the generator in any way.

A CAUTION

Start the generator and allow the engine to stabilize before connecting electrical loads.

Connect electrical equipment in the off position, and then turn them on for operation.

Turn electrical equipment off and disconnect before stopping the generator.

A CAUTION

Improper treatment or use of the generator can damage it, shorten its life or void the warranty.

Use the generator only for intended uses.

Operate only on level surfaces.

DO NOT expose generator to excessive moisture, dust, or dirt.

DO NOT allow any material to block the cooling slots.

If connected devices overheat, turn them off and disconnect them from the generator.

DO NOT use the generator if:

- Electrical output is lost
- Equipment sparks, smokes or emits flames
- Equipment vibrates excessively

IMPORTANT SAFETY INSTRUCTIONS

Fuel Safety

A DANGER

GASOLINE AND GASOLINE VAPORS ARE HIGHLY FLAMMABLE AND EXPLOSIVE.

Fire or explosion can cause severe burns or death.

Gasoline and gasoline vapors:

- Gasoline is highly flammable and explosive.
- Gasoline can cause a fire or explosion if ignited.
- Gasoline is a liquid fuel but it's vapors can ignite.
- Gasoline is a skin irritant and needs to be cleaned up immediately if spilled on skin or clothes.
- Gasoline has a distinctive odor, this will help detect potential leaks quickly.
- Gasoline expands or contracts with ambient temperatures. Never fill the gasoline tank to full capacity, as gasoline needs room to expand when temperatures rise.
- In the case of any petroleum gasoline fire, flames should never be extinguished unless the fuel supply valve can be turned OFF. By not doing so, if a fire is extinguished and the supply of fuel is not turned OFF, an explosion hazard could be created.

When adding or removing gasoline:

DO NOT light or smoke cigarettes.

Always turn the generator off and let cool for a minimum of two minutes before removing the gasoline cap. Afterwards, loosen gasoline cap to relieve pressure from the gasoline tank.

Only fill or drain gasoline outdoors in a well-ventilated area.

DO NOT pump gasoline directly into the generator at the gas station. Always use an approved fuel container to transfer the gasoline to the generator.

DO NOT overfill the gasoline tank.

Always keep gasoline away from sparks, open flames, pilot lights, heat and other sources of ignition.

When starting the generator:

DO NOT attempt to start a damaged generator.

Always make certain that the gasoline cap, air filter, spark plug, fuel lines and exhaust system are properly secured, connected and in place.

Always allow spilled gasoline to evaporate fully before attempting to start the engine.

Make certain that the generator is resting firmly on level ground.

When operating the generator:

DO NOT move or tip the generator during operation.

DO NOT tip the generator or allow fuel or oil to spill.

When transporting or servicing the generator:

Make certain that the fuel valve is in the OFF position and the gasoline tank is empty.

Disconnect the spark plug wire.

When storing the generator:

Store away from sparks, open flames, pilot lights, heat and other sources of ignition.

Do not store generator or gasoline near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions.

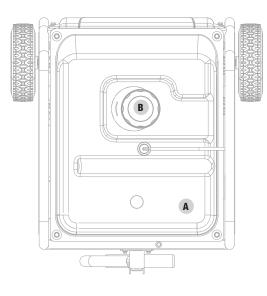
A WARNING

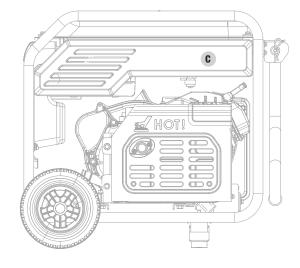
Never use a gasoline container, gasoline tank, or any other fuel item that is broken, cut, torn or damaged.

Safety Labels

These labels warn you of potential hazards that can cause serious injury. Read them carefully.

If a label comes off or becomes hard to read, contact Technical Support Team for possible replacement.





Тор

Muffler Side

	LABEL	DESCRIPTION
A	Image: Notice of the sector	Safety Symbols/ CO Danger
В	Image: Control of the second secon	Fuel
C	A WARNING A WARNING A WARNING DIN TOTOCH Charact gards, number the structure of y-inglustion, A sport warstor my Be that agards, number the structure of y-inglustion, A sport warstor my Be that agards, number the structure of y-inglustion, A sport warstor my Be that agards, number the structure of y-inglustion of this equipment may create gards that can tart an astrongly 107 and they are and regulations relating to the provide charact process and provide charact process and provide character of the regulation of	Hot Surface

Safety Symbols

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

SYMBOL	MEANING
	Read Operator's Manual. To reduce the risk of injury, user must read and understand operator's manual before using this product.
t t t t t t t t t t t t t t	Clearance. Keep all objects at least 5 feet from generator. Heat from the muffler and exhaust gas can ignite combustible objects.
	Ground. Consult with local electrician to determine grounding requirements before operation.
4	Electric Shock. Failure to use in dry conditions and to observe safe practices can result in electric shock. Improper connections to a building can allow current to backfeed into utility lines, creating an electrocution hazard. A transfer switch must be used when connecting to a building.
	Fire/Explosion. Fuel and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death. Keep generator at least 5 ft (1.5m) from all objects to prevent combustion.
	Hot Surface. To reduce the risk of injury or damage, avoid contact with any hot surface.
	Open Flame Alert. Fuel and its vapors are extremely flammable and explosive. Keep fuel away from smoking, open flames, sparks, pilot lights, heat, and other ignition sources.
	Wet Conditions Alert. Do not expose to rain or use in damp locations.

Operation Symbols

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

SYMBOL	MEANING
3	ON
ß	STOP or OFF
ا×ا (Choke. Pull choke knob to "CHOKE" position.
-)III	Run. Push choke knob to "RUN" position.
(Å)	AC Reset
OK	Output OK
	Overload
EGD	Economy Mode Switch

SYM	IBOL	MEANING		
Ť		Low Oil		
R		Circuit Breaker Reset: Push		
NI		Neutral Bonded to Frame. Neutral circuit IS electrically connected to the frame/ground of the generator.		
12 V		12V Direct Current		
	b	Locking Receptacle		
		Ground Terminal		
		Fuel/Gasoline Valve ON/OFF		

Quick Start Label Symbols

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.



Starting the Engine

A DANGER

Move generator outside and far away from windows, doors and intake ventilation covers.

- 1. Check oil level. Recommended oil is 10W-30.
- 2. **Check gasoline level.** When adding gasoline, use a minimum octane rating of 85 and an ethanol content of 10% or less by volume.
- 3. Turn the fuel valve to "ON" position.
- 4. Press the engine switch to the "ON" position.
- 5. Pull the choke to the "CHOKE" position.
- 6. Pull the starter cord.
- 7. Push choke button to the "RUN" position.
- 8. Plug in desired device.

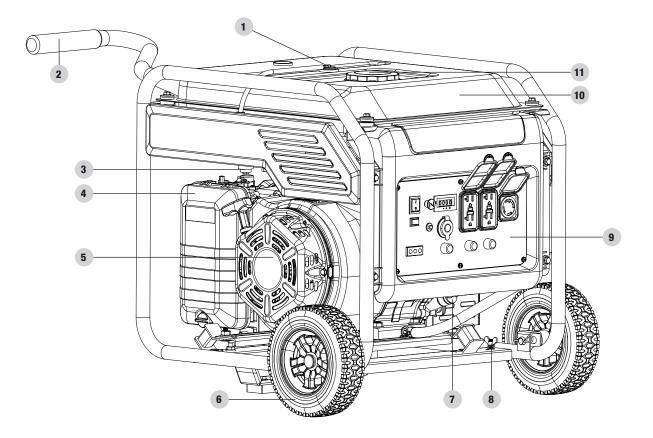
Stopping the Engine

- 1. Turn off and unplug all connected electrical loads.
- 1. Press the engine switch to the "OFF" position.
- 2. Turn the fuel valve to the "OFF" position.

CONTROLS AND FEATURES

Read this operator's manual before operating your generator. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.

Generator

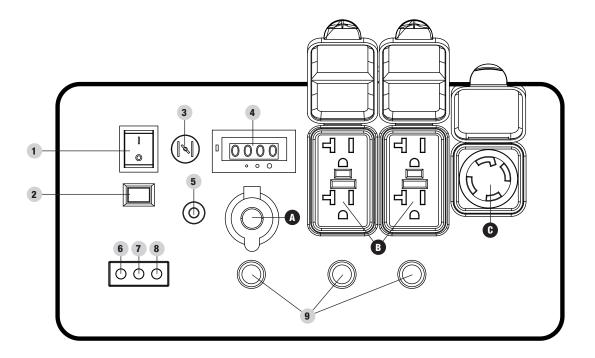


1. Reversal Valve

- 2. Folding Handle Used to move unit by lifting and rolling on wheels. Do not use to lift or carry the unit.
- 3. Fuel Valve Used to turn fuel supply on and off to engine.
- 4. **Air Filter** Protects the engine by filtering dust and debris from the intake air.
- 5. **Recoil Starter** Used to manually start the engine.
- 6. Never Flat Wheels 8 in. (20.3 cm).
- 7. Oil Fill Cap/Dipstick Used to check and fill oil level.

- 8. **Ground Terminal** Consult an electrician for local grounding regulations.
- 9. Control Panel See "Control Panel" section.
- 10. Gasoline Tank 4 gal. (15 L).
- 11. Fuel Cap Remove to add fuel.

Control Panel



- Engine Switch Used to put in START mode or STOP the generator.
- Economy Mode Switch Enables/disables automatic idle control.
- 3. Choke Used to start a cold engine.
- 4. **Intelligauge** Four mode digital meter for displaying voltage, frequency (hertz), run time, and total run time.
- 5. AC Overload Reset Button Used to re-energize receptacles after overload fault.
- Output Indicator Light Remains ON during normal operating conditions. Turns OFF when generator is overloaded.
- 7. **Overload Indicator Light** When ON generator is overloaded and power to receptacles is cut.
- 8. **Oil Warning Indicator Light** When ON engine will shut down and not run. Check oil level.
- 9. **Circuit Breakers (Push Reset)** Protects the generator against electrical overloads.

		RECEPTACLES
A		12V DC, 8 Amp (Automotive) May be used to supply electrical power for operation of 12 Volt DC, 8 Amp electrical loads.
B	-	(4×) 120V AC, 20A GFCI (NEMA 5-20R) May be used to supply electrical power for operation of 120 Volt AC, 20 Amp, single phase, 60 Hz electrical loads.
C		120/240V AC, 30A Locking (NEMA L14-30R) May be used to supply electrical power for operation of 120/240 Volt AC, 30 Amp, single phase, 60 Hz electrical loads.

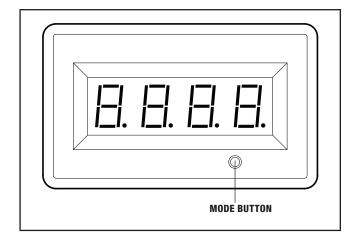
A WARNING

Do not operate a device while it is plugged into the 12V DC outlet. Prolonged exposure to engine exhaust can cause serious injury or death. While charging a device do no place on the exhaust side of the generator. Extreme heat caused by exhaust can damage the device, and cause a potential fire hazard.

Intelligauge

Four mode digital meter for displaying voltage, frequency (hertz), run time, and total run time.

The LCD displays each mode by pressing the button below the display.



MODE	DESCR	RIPTION	
	Output voltage of the generator.		
Voltage (V)	Example: 120 volts		
	Output frequ	ency in hertz.	
Frequency (F)	Example: 60.0 hertz	F E D. D.	
	Run time of the generator for the current session		
Run Time (R)	Example: 6 hours	FIE.D	
	Total run time of the generator since first operation		
Total Run Time	Example: 16 hours		

FCC Statement

- 1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - 1a. This device may not cause harmful interference.
 - This device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

A NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

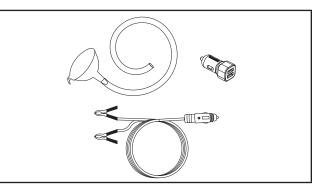
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult dealer or an experienced radio/TV technician for help.

Parts Included

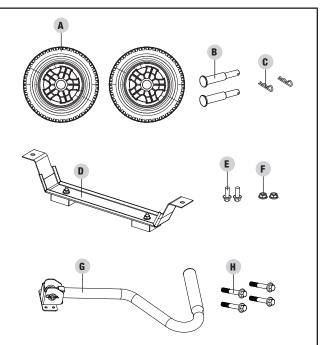
Accessories

Flexible Oil Funnel1	
Dual 2.4A Port USB Adapter1	
Battery Charging Cables1	



Assembly Parts

Wheels	
8 in. (20.3 cm) Never Flat Wheel (A)	2
Roll Pin (B)	2
Large R-clip (C)	2
Engine Vibration Mounts	
Support Leg with Vibration Mounts (D)	1
Flange Bolt (M8×16) (E)	2
Flange Lock Nut (M8) (F)	2
Folding Handle	
Handle (G)	1
Flange Bolt (M6×30) (H)	4



ASSEMBLY

Your generator requires some assembly. This unit ships from our factory without oil. It must be properly serviced with fuel and oil before operation.

If you have any questions regarding the assembly of your generator, call our Technical Support Team at 1-877-338-0999. Please have your serial number and model number available.

Unpacking

- 1. Set the shipping carton on a solid, flat surface.
- 2. Remove everything from the carton except the generator.
- Carefully cut each corner of the box from top to bottom. Fold each side flat on the ground to provide a surface area to work with the generator.

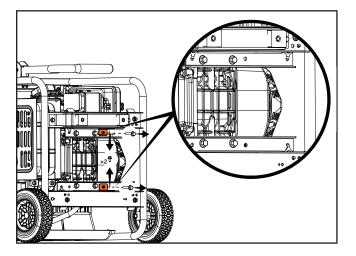
Remove Shipping Support Brackets

To protect the generator during shipping, support brackets have been installed between the engine and frame. These brackets MUST BE REMOVED BEFORE adding oil or gasoline to the generator.

NOTICE

DO NOT attempt to run generator without first removing the shipping support brackets. Damage to the generator as a result of not removing the brackets will void the warranty.

- BEFORE filling the engine with oil or gasoline, tip the generator onto it's recoil end. Tip onto the flattened cardboard box the generator came in or other protective surface so as to not scratch the frame.
- 2. Remove the bolts from the orange support brackets. Bolts and brackets can be discarded.
- 3. Tip the generator upright.



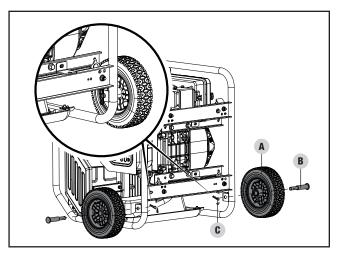
Install the Wheel Kit

A CAUTION

The wheel kit is not intended for over-the-road use.

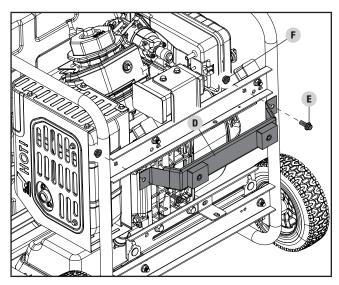
Install the Wheels

- 1. Before adding fuel and oil, tip the generator onto it's end.
- 2. Slide the roll pin (B) through the wheel (A) from the outside.
- 3. Slide the roll pin through the mount point on the frame.
- 4. Secure with the R-clip (C).
- 5. Repeat to attach the second wheel.



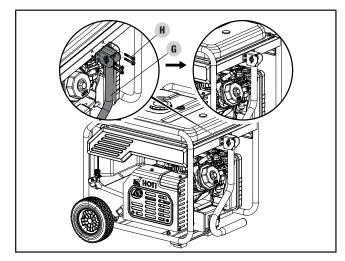
Install the Support Leg

- 1. Attach the support leg (D) to the generator frame with flange bolts (E) and flange lock nuts (F).
- 2. Slowly tip the generator back down so that it rests on the wheels and support leg.



Install the Handle

- 1. Place the handle (G) over the mounting channel on the frame.
- 2. Secure the handle to the frame using the four flange bolts (H).



Add Engine Oil

A CAUTION

DO NOT attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage to the generator as a result of failing to follow these instructions will void your warranty.

NOTICE

The generator rotor has a sealed, pre-lubricated ball bearing that requires no additional lubrication for the life of the bearing.

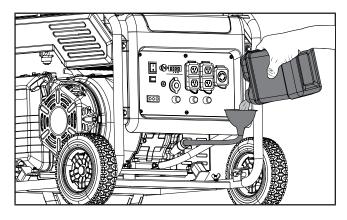
NOTICE

The recommended oil type for typical use is **10W-30** automotive oil.

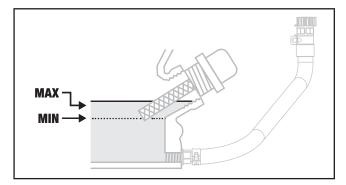
If running generator in extreme temperatures, refer to the following chart for recommended oil type.

Recommended Oil Type							
				10W-3	80		
51	V-30				1	0W-40	
			5W-30 S	ynthetic			
°F -20	0	20	40	60	80	100	120
° C -28.9	-17.8	-6.7	4.4	15.6	26.7	37.8	48.9
			Ambient te	mperature			

- 1. Place the generator on a flat, level surface.
- 2. Remove oil fill cap/dipstick to add oil.
- Using a funnel, add up to 37.2 fl. oz. (1.2 qt.) of oil (not included) and replace oil fill cap/dipstick. DO NOT OVERFILL.



4. Check engine oil level at every use and add as needed.



NOTICE

Once oil has been added, a visual check should show oil about 1-2 threads from running out of the fill hole.

When using the dipstick to check oil level, D0 N0T screw in the dipstick while checking.

PNOTICE

Check oil level often during the break-in period. Refer to the <u>Maintenance</u> section for recommended service intervals.

A CAUTION

This engine is equipped with a low oil shut-off and will stop when the oil level in the crankcase falls below the threshold level.

NOTICE

The first 5 hours of run time are the break-in period for the unit. During the break in period stay at or below 50% of the running watt rating and vary the load occasionally to allow stator windings to heat and cool. Adjusting the load will also cause engine speed to vary slightly and help seat piston rings. After the 5 hour break-in period, change the oil.

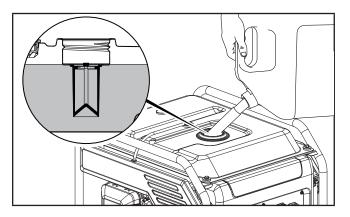
NOTICE

Synthetic oil may be used after the 5 hour initial break-in period. Using synthetic oil does not increase the recommended oil change interval. Full synthetic 5W-30 oil will aid in starting in cold ambient $< 41^{\circ}$ F (5° C) temperatures.

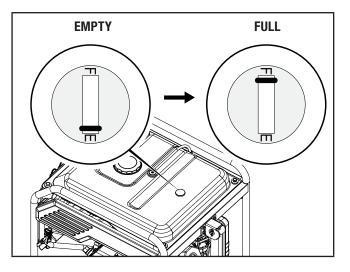
Add Fuel

DO NOT mix oil with gasoline.

- 1. Remove the gasoline cap.
- 2. Slowly add gasoline to the tank. Tank is full when gasoline reaches red circle on screen. DO NOT OVERFILL. Gasoline can expand after filling. A minimum of ¼ in. (6.4 mm) of space left in the tank is required for gasoline expansion, although more than ¼ in. (6.4 mm) is recommended. Gasoline can be forced out of the tank as a result of expansion if overfilled, and can affect the stable running condition of the generator.



 Fuel gauge on top of tank will read "F" when full of gasoline and "E" when tank is empty and needs to be refilled.



4. Screw on the gasoline cap and wipe away any spilled fuel.

A CAUTION

Use unleaded gasoline with a minimum octane rating of 85 and an ethanol content of 10% or less by volume.

DO NOT light cigarettes or smoke when filling the tank.

DO NOT mix oil and gasoline.

DO NOT overfill the tank. Fill tank to approximately 1/4 in. (6.4 mm) below the top of the tank to allow for gasoline expansion.

DO NOT pump gasoline directly into the generator at the pump. Use an approved container to transfer the gasoline to the generator.

DO NOT fill tank indoors.

DO NOT fill tank when the engine is running or hot.

A WARNING

Pouring gasoline too fast through the fuel screen may result in gasoline splashing over the generator and operator while filling.

NOTICE

The generator engine works well with 10% or less ethanol blend gasoline. When using ethanol-gasoline blends there are some issues worth noting:

- Ethanol-gasoline blends can absorb more water than gasoline alone.
- These blends can eventually separate, leaving water or a watery goo in the tank, fuel valve and carburetor. The compromised gasoline can be drawn into the carburetor and cause damage to the engine and/or potential hazards.
- If a fuel stabilizer is used, confirm that it is formulated to work with ethanol-gasoline blends.
- Any damages or hazards caused by using improper gasoline, improperly stored gasoline, and/or improperly formulated stabilizers, are not covered by manufacturer's warranty.

It is advisable to always shut off the gasoline supply and run the engine to starvation after each use. See Storage instructions for extended non-use.

Grounding

Your generator must be properly connected to an appropriate ground to help prevent electric shock.

A WARNING

Failure to properly ground the generator can result in electric shock.

A ground terminal connected to the frame of the generator has been provided (see <u>Controls and Features</u> for terminal location). For remote grounding, connect of a length of heavy gauge (12 AWG minimum) copper wire between the generator ground terminal and a copper rod driven into the ground. We strongly recommend that you consult with a qualified electrician to ensure compliance with local electrical codes.

Neutral Floating*

- Neutral circuit **IS NOT** electrically connected to the frame/ ground of the generator.
- The generator (stator winding) is isolated from the frame and from the AC receptacle ground pin.
- Electrical devices that require a grounded receptacle pin connection will not function if the receptacle ground pin is not functional.

Neutral Bonded to Frame*

- Neutral circuit IS electrically connected to the frame/ground of the generator.
- The generator system ground connects lower frame cross-member below the alternator. The system ground is connected to the AC neutral wire.

*See your model's control panel for specified type of grounding.

OPERATION

Generator Location

NEVER operate the generator inside any building, including garages, basements, crawlspaces and sheds, enclosure or compartment, including the generator compartment of a recreational vehicle. Please consult your local authority. In some areas, generators must be registered with the local utility. Generators used at construction sites may be subject to additional rules and regulations. Generators should be on a flat, level surface at all times. (Even while not in operation) Generators must have at least 5 ft. (1.5 m) of clearance from all combustible material. In addition to clearance from all combustible material, generators must also have at least 3 ft. (91.4 cm) of clearance on all sides to allow for adequate cooling, maintenance and servicing. Generators should never be started or operated in the back of a SUV, camper, trailer, in the bed of a truck (regular, flat or otherwise), under staircases/stairwells, next to walls or buildings, or in any other location that will not allow for adequate cooling of the generator and/or the muffler. DO NOT contain generators during operation. Allow generators to properly cool before transport or storage.

Place the generator in a well-ventilated area. DO NOT place the generator near vents or intakes where exhaust fumes could be drawn into occupied or confined spaces. Carefully consider wind and air currents when positioning generator.

Failure to follow proper safety precautions may void manufacturer's warranty.

A WARNING

Do not operate or store the generator in rain, snow, or wet weather.

Using a generator or electrical appliance in wet conditions, such as rain or snow, or near a pool or sprinkler system, or when your hands are wet, could result in electrocution.

A WARNING

During operation the muffler and exhaust fumes will become hot. If adequate cooling and breathing space are not supplied, or if the generator is blocked or enclosed, temperatures can become extremely heated and may lead to fire.

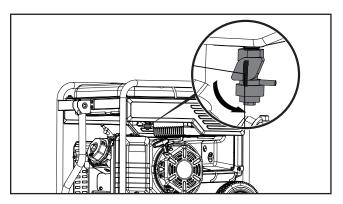
Surge Protection

Electronic devices, including computers and many programmable appliances use components that are designed to operate within a narrow voltage range and may be affected by momentary voltage fluctuations. While there is no way to prevent voltage fluctuations, you can take steps to protect sensitive electronic equipment.

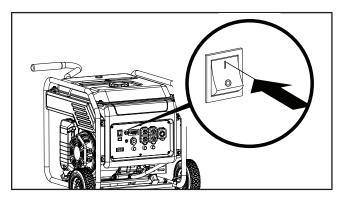
 Install UL1449, CSA-listed, plug-in surge suppressors on the outlets feeding your sensitive equipment.
 Surge suppressors come in single- or multi-outlet styles.
 They're designed to protect against virtually all shortduration voltage fluctuations.

Starting the Engine

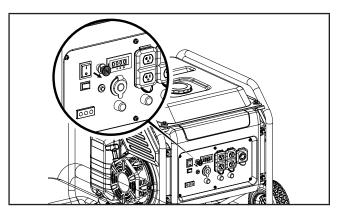
- 1. Make certain the generator is on a flat, level surface.
- 2. Disconnect all electrical loads from the generator. Never start or stop the generator manually with electrical devices plugged in or turned on.
- 3. Turn the gasoline fuel valve to the "ON" position.



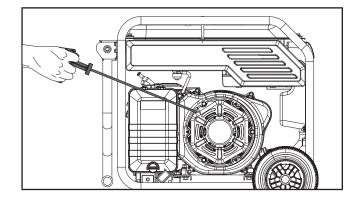
4. Push the engine switch to the "ON" position.



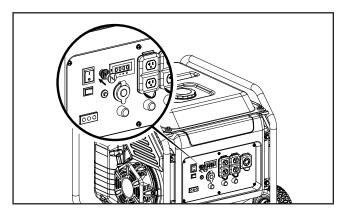
5. Pull the choke to the "CHOKE" position.



6. Pull the starter cord slowly until resistance is felt and then pull rapidly. Several pulls may be required.



7. Once engine starts, push choke button to the "RUN" position.



PNOTICE

Keep choke in "CHOKE" position for only 1 pull of the recoil starter. After first pull, press choke to "RUN" position for up to 3 pulls of the recoil starter. Too much choke leads to spark plug fouling/engine flooding due to lack of incoming air. This will cause the engine not to start.

NOTICE

For gasoline restarts with hot engine in hot ambient temperature > 86°F (30°C), keep the choke in "CHOKE" position for only 1 pull of the recoil starter. After first pull, press choke to the "RUN" position for 3 more pulls of the recoil starter. Too much choke leads to spark plug fouling/ engine flooding due to lack of incoming air. This will cause the engine not to start.

PNOTICE

For gas starting in cold ambient temperature < 59°F (15°C), the choke must be in 100% of "CHOKE" position for recoil start procedures. Do not over-choke. As soon as engine starts, press the choke button to the "RUN" position.

NOTICE

If the engine starts but does not continue to run make certain that the generator is on a flat, level surface. This engine is equipped with a low oil sensor that will prevent the engine from running when the oil level falls below a critical threshold.

Connecting Electrical Loads

Let the engine stabilize and warm up for a few minutes after starting.

Plug in and turn on the desired 120 or 240 (if applicable) Volt AC single phase, 60 Hz electrical loads.

- DO NOT connect 3-phase loads to the generator.
- D0 NOT overload the generator.

A WARNING

Connecting a generator to your electric utility company's power lines or to another power source may be against the law. In addition this action, if done incorrectly, could damage your generator and appliances and could cause serious injury or even death to you or a utility worker who may be working on nearby power lines. If you plan to run a portable electric generator during an outage, please notify your electric utility company immediately and remember to plug your appliances directly into the generator. Do not plug the generator into any electric outlet in your home. Doing so could create a connection to the utility company power lines. You are responsible for ensuring that your generator's electricity does not feed back into the electric utility power lines.

If the generator will be connected to a building electrical system, consult your local utility company or a qualified electrician. Connections must isolate generator power from utility power and must comply with all applicable laws and codes.

Do Not Overload Generator

Capacity

Follow these simple steps to calculate the running and starting watts necessary for your purposes:

- 1. Select the electrical devices you plan on running at the same time.
- 2. Total the running watts of these items. This is the amount of power you need to keep your items running.
- Identify the highest starting wattage of all devices identified in step 1. Add this number to the number calculated in step 2. Starting wattage is the surge of power needed to start some electric driven equipment. Following the steps listed under "Power Management" will guarantee that only one device will be starting at a time.

Power Management

Use the following formula to convert voltage and amperage to watts:

Volts × Amps = Watts

To prolong the life of your generator and attached devices, follow these steps to add electrical load:

- 1. Start the generator with no electrical load attached.
- 2. Allow the engine to run for several minutes to get up to temperature.
- 3. Plug in and turn on the first item. It is best to attach the item with the largest load first.
- 4. Allow the engine to stabilize.

- 5. Plug in and turn on the next item.
- 6. Allow the engine to stabilize.
- 7. Repeat steps 5-6 for each additional item.

NOTICE

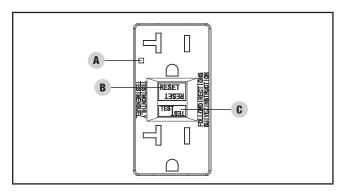
Never exceed the specified capacity when adding loads to the generator.

GFCI

Your generator is equipped with ground fault circuit interrupter (GFCI) receptacles. In the event of a ground fault, a GFCI trips automatically to stop the flow of electricity and prevent serious injury. The green indicator light (A) on the receptacle will also turn off. Press the "RESET" (B) button located on the front of the receptacle to restore flow of electricity. The indicator light will also turn back on. GFCI does not protect against circuit overloads.

To ensure proper operation of the GFCI duplex, perform this test monthly:

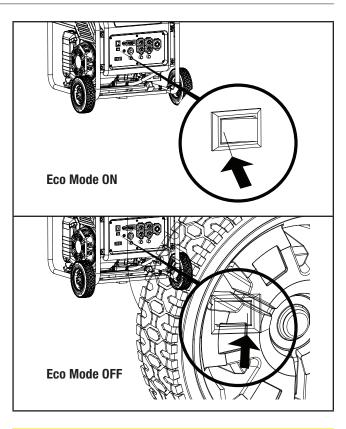
- 1. With the generator running, plug a lamp into the GFCI receptacle. Turn the lamp on.
- Press the "TEST" (C) button located on the front of the receptacle to trip the device. This should immediately stop the flow of electricity and shut off the lamp. If the electricity is not stopped, do not use this receptacle until is has been serviced or replaced.
- Press the "RESET" button located on the front of the receptacle to restore the flow of electricity. If the indicator light does not come back on or if the GFCI cannot be reset then it must be replaced.



Eco (Economy) Mode

The Eco Mode switch can be activated to turn on economy control in order to minimize fuel consumption and noise while operating the unit during times of reduced electrical output. Eco Mode allows the engine speed to idle during periods of non-use.

The engine speed returns to normal when an electrical load is connected. When the economy switch is off, the engine runs at normal speed continuously.



A CAUTION

For periods of high electrical load or momentary fluctuations, the Eco Mode should be off.

12V DC Automotive Style Outlet

The 12V DC outlet(s) can be used with the supplied accessories and other commercially available 12V DC automotive style plugs. The DC output is unregulated and can damage some products. Confirm the input voltage range of your item is at least 12-24V DC. When using the DC outlet turn the Eco Mode switch to the "OFF" position.

A WARNING

Do not operate a device while it is plugged in to the 12V DC outlet.

Prolonged exposure to engine exhaust can cause serious injury or death.

A CAUTION

While charging a device do not place on the exhaust side of the generator. Extreme heat caused by exhaust can damage the device, and cause a potential fire hazard.

Battery Charging

- 1. Before connecting the battery charging cable (included) to a battery that is installed in a vehicle, disconnect the vehicle battery ground cable from the negative (–) battery terminal.
- 2. Plug the battery charging cable into the 12V DC receptacle of the generator.
- 3. Connect the red (+) battery charger lead to the red (+) battery terminal.
- 4. Connect the black (–) battery charger lead to the black (–) battery terminal.
- 5. Start the generator.

Important: The 12V DC outlet is ONLY to be used with the supplied 12V DC battery charging cable. The 12V DC output is unregulated and will damage other 12V DC products. When using the 12V DC outlet, turn the Economy mode switch to the "OFF" position. Be sure all electric devices including the lines and plug connections are in good condition before connection to the generator.

A CAUTION

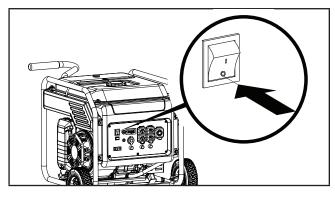
Do not start the vehicle while the battery charging cable is connected and the generator is running. It will not give the battery a boost of power. The vehicle or the generator may be damaged. Charge only vented wet lead acid batteries. Other types of batteries may burst, causing personal injury or damage.

PNOTICE

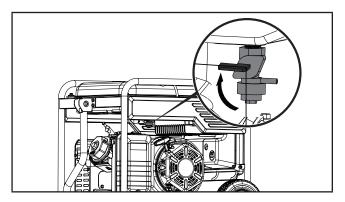
Be sure all electric devices including the lines and plug connections are in good condition before connection to the generator.

Stopping the Engine

- 1. Turn off and unplug all electrical connected loads. Never start or stop the generator with electrical devices plugged in or turned on.
- 2. Let the generator run at no-load for several minutes to stabilize internal temperatures of the engine and generator.
- 3. Press the engine switch to the "OFF" position.



4. Turn the fuel valve to the "OFF" position.



Important: Always ensure that the fuel valve and the engine switch are in the "OFF" position when the generator will not be used for an extended period of time.

NOTICE

If the engine will not be used for a period of two (2) weeks or longer, please see the Storage section for proper engine and fuel storage.

Operation at High Altitude

The density of air at high altitudes is lower than at sea level. Engine power is reduced as the air mass and air-fuel ratio decrease. Engine power and generator output will be reduced approximately 3½% for every 1000 ft. of elevation above sea level. At high altitudes increased exhaust emissions can also result due to the increased enrichment of the air fuel ratio. Other high altitude issues can include hard starting, increased fuel consumption and spark plug fouling.

To alleviate high altitude issues other than the natural power loss, CPE can provide a high altitude carburetor main jet. The alternative main jet and installation instructions can be obtained by contacting our Technical Support Team. Installation instructions are also available in the Technical Bulletin area of the CPE website. The part number and recommended minimum altitude for the application of the high altitude carburetor main jet is listed in the following table.

In order to select the correct high altitude main jet it is necessary to identify the carburetor model. For this purpose, a code is stamped on the side of the carburetor. Select the correct high altitude jet part number corresponding to the carburetor code found on your particular carburetor.

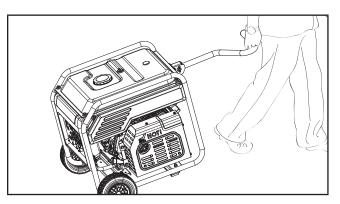
Carb. Code	High Alt. Jet Part Number	Min. Altitude
16100-	16161-Z020910-0000	3000 ft. (914 m)
Z0C0210	16161-Z140510-0000	6000 ft. (1829 m)

A WARNING

Operation using the alternative main jet at elevations lower than the recommended minimum altitude can damage the engine. For operation at lower elevations, the originally supplied standard main jet must be used. Operating the engine with the wrong engine configuration at a given altitude may increase its emissions and decrease fuel efficiency and performance.

Moving the Generator

- NEVER lift or carry the generator using the folding handle.
- ALWAYS place the generator on its wheels in the upright position.
- ALWAYS turn the generator off and ensure the fuel valve is closed.
- ALWAYS make sure engine and muffler are cooled down before the generator can be handled safely (typically 15-30 minutes).
- 1. Begin by raising the folding handle, found on opposite side of wheels.
- 2. Using the handle, tilt the end of the generator slightly off the ground until balanced on the wheels.
- 3. While maintaining balance, roll the generator to the desired location.



- NEVER tilt sideways while moving the generator.
- Failure to follow these instructions could result in personal injury or damage to the generator.

MAINTENANCE

Make certain that the generator is kept clean and stored properly. Only operate the unit on a flat, level surface in a clean, dry operating environment. DO NOT expose the unit to extreme conditions, excessive dust, dirt, moisture or corrosive vapors.

A WARNING

Never operate a damaged or defective generator.

A WARNING

Improper maintenance will void your warranty.

PNOTICE

For Emission control devices and systems, read and understand your responsibilities for service as stated in the Emission Control Warranty Statement of this manual.

The owner/operator is responsible for all periodic maintenance.

Complete all scheduled maintenance in a timely manner.

Correct any issue before operating the generator.

For service or parts assistance, contact our Technical Support Team at 1-877-338-0999.

Cleaning the Generator

A CAUTION

DO NOT spray generator directly with water.

Water can enter the generator through the cooling slots and damage the generator windings. It can also contaminate the fuel system.

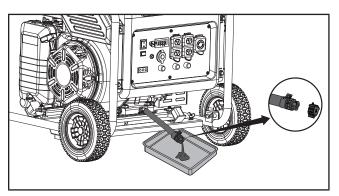
- 1. Use a damp cloth to clean exterior surfaces of the generator.
- 2. Use a soft bristle brush to remove dirt and oil.
- 3. Use an air compressor (25 PSI) to clear dirt and debris from the generator.
- 4. Inspect all air vents and cooling slots to ensure that they are clean and unobstructed.

To prevent accidental starting, remove and ground the spark plug wire before performing any service.

Changing the Engine Oil

Change oil when the engine is warm. Refer to the oil specification to select the proper grade for your operating environment.

1. Unclip the quick drain oil tube from behind the panel and remove the oil drain cap.



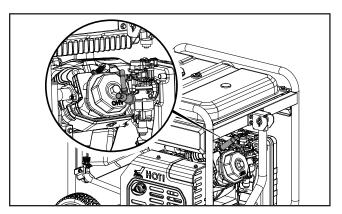
- 2. Allow the oil to drain completely into an appropriate container.
- 3. Replace the oil drain cap.
- 4. Remove the oil fill cap/dipstick to add oil.
- Add oil according to "Add Engine Oil" on Assembly section. DO NOT OVERFILL. Oil not included for routine maintenance.
- 6. Dispose of used oil at an approved waste management facility.

NOTICE

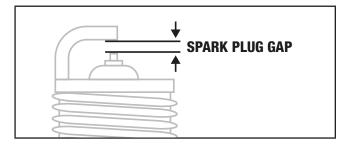
Once oil has been added, a visual check should show oil about 1-2 threads from running out of the fill hole. If using the dipstick to check oil level, DO NOT screw in the dipstick while checking.

Cleaning and Adjusting the Spark Plug

- 1. Remove the spark plug cable from the spark plug.
- Use a spark plug socket tool (not included), or a 13/16 in. (21 mm) socket (not included) to remove the plug.



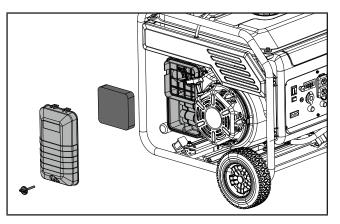
- 3. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
- 4. Make certain the spark plug gap is 0.028-0.031 in. (0.7-0.8 mm).



- 5. Refer to the spark plug types in <u>Specifications</u> when replacing the plug.
- 6. Firmly re-install the plug.
- 7. Attach the spark plug cable to the spark plug.

Cleaning the Air Filter

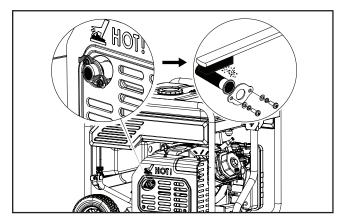
- 1. Remove the snap-on cover holding the air filter to the assembly.
- 2. Remove the foam element.



- 3. Wash in liquid detergent and water. Squeeze thoroughly dry in a clean cloth.
- 4. Saturate in clean engine oil.
- 5. Squeeze in a clean, absorbent cloth to remove all excess oil.
- 6. Place the filter in the assembly.
- 7. Reattach the air filter cover and snap in place.

Cleaning the Spark Arrestor

- 1. Allow the engine to cool completely before servicing the spark arrestor.
- Remove the two or three screws (varies by model) holding the cover plate which retains the spark arrestor to the muffler.
- 3. Remove the spark arrestor screen.
- 4. Carefully remove the carbon deposits from the spark arrestor screen with a wire brush.



*See your model's parts list for specified type of spark arrestor.

- 5. Replace the spark arrestor if it is damaged.
- 6. Position the spark arrestor on the muffler and attach with the screws removed in step 2.

A CAUTION

Failure to clean the spark arrestor will result in degraded engine performance.

PNOTICE

Federal and local laws and administrative requirements indicate when and where spark arrestors are required. When ordered, spark arrestors are required for operation of this generator in National Forest lands. In California, this generator must not be used on any forest-covered land, brush-covered land, or grass-covered land unless the engine is equipped with a spark arrestor.

Adjusting the Governor

A WARNING

Tampering with the factory set governor will void your warranty.

The air-fuel mixture is not adjustable. Tampering with the governor can damage your generator and your electrical devices and will void your warranty. Contact our Technical Support Team at 1-877-338-0999 for all other service and/or adjustment needs.

Maintenance Schedule

Follow the service intervals indicated in the following maintenance schedule.

Service your generator more frequently when operating in adverse conditions.

Contact our Technical Support Team at 1-877-338-0999 to locate the nearest CPE certified service dealer for your generator or engine maintenance needs.

EVERY 8 HOURS OR PRIOR TO EACH USE

- □ Check oil level
- Clean around air intake and muffler

FIRST 5 HOURS (BREAK IN)

□ Change oil

EVERY 50 HOURS OR ANNUALLY

- Clean air filter
- Change oil if operating under heavy load or in hot environments

EVERY 100 HOURS OR ANNUALLY

- □ Change oil
- □ Clean/adjust spark plug
- □ Clean spark arrestor
- Clean fuel valve filter*

EVERY 250 HOURS

- Clean combustion chamber*
- Check/adjust valve clearance*

EVERY 3 YEARS

- Replace fuel line*
- * To be performed by knowledgeable, experienced owners or CPE certified service centers.

STORAGE

A DANGER

Gasoline vapors are highly flammable and extremely explosive.

Fire or explosion can cause severe burns or death. Only fill or drain fuel outdoors in a well-ventilated area. DO NOT pump gasoline directly into the generator. Use an approved container to transfer the fuel to the generator. Never use a gasoline container, gasoline tank, or any other fuel item that is damaged or appears damaged. DO NOT overfill the gasoline tank. Always keep fuel away from sparks, open flames, pilot lights, heat and other sources of ignition. DO NOT light or smoke cigarettes.

Short Term Storage (up to 30 days)

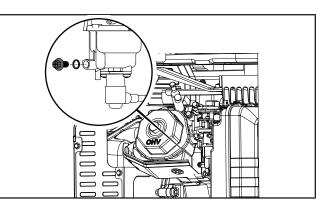
Gasoline may gum up and clog the carburetor if the generator is not run or carburetor drained within 4 weeks.

- 1. Be sure all appliances are disconnected from the generator.
- Start the generator as instructed in "Starting the Engine" section.
- 3. Turn the fuel valve to the "OFF" position.
- 4. Let the engine run until fuel starvation has stopped the engine. This usually takes a few minutes.
- 5. Move the engine switch to the "OFF" position.

Mid Term Storage (30 days – 1 year)

Gasoline in the tank has a maximum shelf life of up to 1 year with the addition of a properly formulated fuel stabilizer and stored in a cool, dry place.

- 1. Be sure all appliances are disconnected from the generator.
- 2. Add a properly formulated fuel stabilizer to the gasoline tank.
- 3. Turn the fuel valve to the "ON" position.
- 4. Start and run the generator for 10 minutes so the treated gasoline cycles through the fuel system.
- 5. Option 1: Drain Gasoline from Carburetor
 - 5a. Turn engine switch to the "OFF" position and allow generator to cool completely before continuing.
 - 5b. Turn the fuel valve to the "OFF".
 - 5c. Use the drain bolt on the carburetor to empty any excess gasoline from the carburetor into an appropriate container. Use a funnel (and appropriate hose if necessary) under the carburetor drain bolt to avoid spillage.



5d. When gasoline stops flowing from the carburetor, replace and tighten the carburetor drain bolt and be sure to properly dispose of the drained gasoline according to local regulations or guidelines.

6. Option 2: Run Dry

- 6a. With the generator running, turn the fuel valve to the "OFF" position and allow the generator to run until the engine stops from complete fuel starvation. This may take a few minutes.
- 6b. Turn engine switch to the "OFF" position and allow generator to cool completely before continuing.
- 7. Remove the spark plug cap and spark plug and pour about a tablespoon of oil into the cylinder.
- 8. Pull the recoil slowly to crank the engine to distribute the oil and lubricate the cylinder.
- 9. Install the spark plug and spark plug cap.
- 10. Clean the generator according to <u>Cleaning the Generator</u>.
- 11. Store the generator in a cool, dry place out of direct sunlight.

Long Term Storage (over 1 year)

For storage over 1 year, the gasoline tank and carburetor must be completely drained of gasoline.

- 1. Follow steps 1-4 according to Mid Term Storage.
 - 1a. Turn engine switch to the "OFF" position and allow generator to cool completely before continuing.
- Use the drain bolt on the carburetor to empty any excess gasoline from the gasoline tank and carburetor into an appropriate container. Use a funnel (and appropriate hose if necessary) under the carburetor drain bolt to avoid spillage.
- 3. When gasoline stops flowing from the carburetor, replace and tighten the carburetor drain bolt and be sure to properly dispose of the drained gasoline according to local regulations or guidelines.

- 4. Turn the fuel valve to the "OFF" position.
- 5. Follow steps 8-11 according to Mid Term Storage.

Removing from Storage

If the generator has been improperly stored for a long period of time with gasoline in the gasoline tank and/or carburetor, all fuel must be drained and the carburetor must be thoroughly cleaned. This process involves technically advanced tasks. For assistance please call our Technical Support Team at 1-877-338-0999.

If the gasoline tank and carburetor were properly emptied of all gasoline prior to the generator being stored, follow the below steps when removing from storage.

- 1. Be sure the engine switch is in the "OFF" position.
- 2. Add gasoline to the generator according to <u>Add Fuel:</u> <u>Gasoline</u>.
- 3. Turn the fuel valve to the "ON" position.
- 4. After 5 minutes check the carburetor and air filter areas for any leaking gasoline. If any leaks are found, the carburetor will need to be disassembled and cleaned or replaced. If no gasoline leaks are found, turn the fuel valve to the "OFF" position.
- 5. Check engine oil level and add clean, fresh oil if needed. See <u>Oil Specifications</u> for proper oil type.
- Check and clear air filter of any obstructions such as bugs or cobwebs. If necessary, clean air filter according to <u>Cleaning the Air Filter</u>.
- 7. Start the generator according to <u>Starting the Engine</u>.

SPECIFICATIONS

Generator Specifications

Generator Model	100519
Start Type	Manual
Watts (Starting/Running)	6250/5000
AC Volts	120/240
AC Amps @ 120V	
AC Amps @ 240V	
DC Volts	
DC Amps	
Frequency	60 Hz
Phase	Single
Weight	121 lb. (55 kg)
Length	26.6 in. (67.5 cm)
Width	25.6 in. (65 cm)
Height	23.7 in. (60.1 cm)

Engine Specifications

Model	R300
Displacement	
Туре	4-Stroke OHV
Spark Plug	
ОЕМ Туре	NHSP F6RTC
Replacement Type	NGK BPR6ES or equivalent
Gap	0.028-0.031 in. (0.7-0.8 mm)
Valve	
Intake Clearance	0.002-0.004 in. (0.05-0.1 mm)
Exhaust Clearance	0.002-0.004 in. (0.05-0.1 mm)

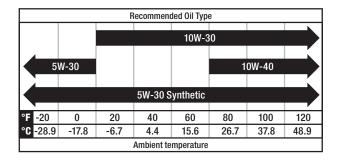
PNOTICE

A technical bulletin regarding valve adjustment procedures is available at www.championpowerequipment.com.

Oil Specifications

DO NOT OVERFILL.

Туре	*See chart below
Capacity	37.2 fl. oz. (1.2 qt.)



NOTICE

Temperature will affect engine oil and engine performance. Change the type of engine oil used based on the temperature to suit the engine needs.

Fuel Specifications

Use unleaded gasoline with a minimum octane rating of 85 and an ethanol content of 10% or less by volume. D0 NOT USE E15 or E85. D0 NOT OVERFILL.

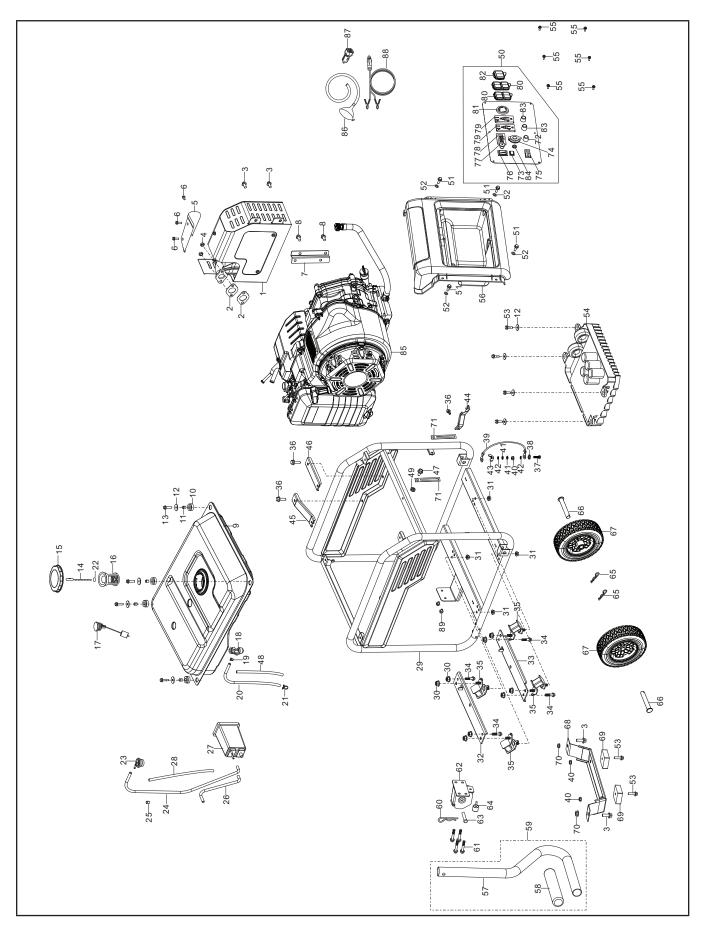
Temperature Specifications

Starting Temperature Range (°F/°C) 5 to 104/-15 to 40

PNOTICE

An important message about temperature: Your product is designed and rated for continuous operation at ambient temperatures up to $104^{\circ}F$ ($40^{\circ}C$). When needed, it may be operated at temperatures ranging from $5^{\circ}F$ ($-15^{\circ}C$) to $122^{\circ}F$ ($50^{\circ}C$) for short periods of time. If exposed to temperatures outside this range during storage, it should be brought back within this range before operation. In any event, the product must always be operated outdoors, in a well-ventilated area and away from doors, windows and vents.

Parts Diagram



Parts List

#	Part Number	Description	Qty.
1	18100-Y9X0310-H300	Muffler Assembly	1
2	18001-Z080110-0000	Exhaust Outlet Gasket	2
3	90001-0816-03	Flange Bolt, M8 x 16, Black Zinc	4
4	90303-0800-33	Flange Nut, M8, Black Zinc	2
5	18013-Y9X0120-H300	Muffler Shield	1
6	90022-0612-03	Flange Bolt, M6 x 12, Black Zinc	3
7	18030-YA40110-H300	Muffler Bracket	1
8	90005-0816-03	Flange Bolt, M8 x 16	2
9	16620-Y9X0110-0B08	Fuel Tank, 15L	1
10	16601-Y020120-0000	Fuel Tank Rubber Sleeve	4
11	90683-Y020110-0000	Bushing, Ø8.7 x 12.2, Blue White Zinc	4
12	90408-Y020110-0000	Flat Washer, Ø6, Black Zinc	8
13	90007-0625-A3	Flange Bolt, M6 x 25, Black Zinc	4
14	16744-Y730110-0000	Chain, Fuel Tank Cap	1
15	16730-Y020610-H700	Fuel Tank Cap	1
16	16652-Y9X0110-0000	Fuel Filter	1
17	37200-Y2V0110-0000	Fuel Gauge	1
18	16750-YA40210-0000	Fuel Valve Assembly	1
19	90685-Z030610-0400	Clamp, Ø8	
20	90686-Z080610-0000	Fuel Tube, Ø4.5 x Ø8.5 x 195	
21	90685-Z030220-0000	Clamp, Ø7.5 x 0.6 x 8	1
22	16658-Y730110-0000	Clip, Ø0.8 x Ø10, Chain	1
23	15150-Y1Z0110-0000	One Way Valve	1
24	16804-Y9X0310-0000	Connection Pipe, Ø4.5 x Ø8.5 x 800	1
25	90698-Y1Z0110-0000	Protective Rubber Sleeve, Ø8.5	1
26	16805-Y9X0110-0000	Connection Pipe, Air Cleaner, Ø4.5-6.5 x Ø8.5-10.5 x 230	
27	16801-Y9K0110-0000	Carbon Canister	1
28	30431-Y9X0110-0000	Rubber Sleeve, Ø9.5 x Ø11 x 300	1
29	51100-YBE0110-H700	Frame Assembly, Ø25 x 1.2, 580 x 485 x 510	1
30	90306-1000-31	Flange Nut, M10 x 1.25, Blue White Zinc	8
31	90305-0800-31	Flange Nut, M8, Blue White Zinc	4

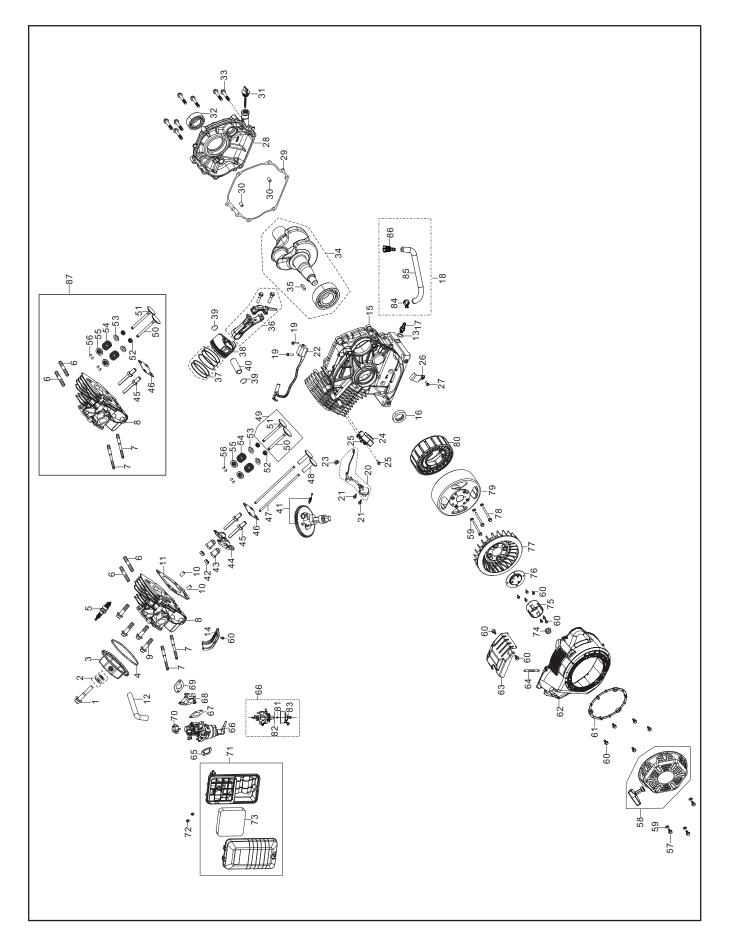
#Part NumberDescriptionQty.3251002-YA40210-H700Dead Plate 1, Engine, 33013351002-YA40310-H700Dead Plate 2, Engine, 37013490002-1040-01Flange Bolt, M10 x 1.25 x 40, Blue White Zinc43551005HY9X0110-0000Vibration Mount, Frame43690001-0612-03Flange Bolt, M6 x 12, Black Zinc33790001-0625-03Flange Bolt, M6 x 25, Black Zinc13890415-0600-Z1Lock Washer, Ø6, Toothed, Blue White Zinc14090305-0600-33Flange Nut, M6, Black Zinc24190408-0600-E3Flat Washer, Black Zinc24390312-0600-33Wing Nut, M6, Black Zinc14417003-YA40110-0100Air Cleaner Support14530081HYA40210-H700Holder 1, Control Unit14630081HYA40110-H700Holder 2, Control Unit1479001-0608-03Flange Bolt, M6 x 8, Black Zinc14830431-Z010110-0000Rubber Sleeve, Ø9.5 x Ø11 x 9015035610-YBE0510-H300Control Panel Subassembly15190007-0616-A3Flange Bolt, M6 x 16, Black Zinc45390001-0620-03Flange Bolt, M6 x 16, Black Zinc45430043-YBE0110-0000Flange Bolt, M6 x 20, Black Zinc15430043-YBE0110-0000Flange Bolt, M6 x 20, Black Zinc65590255-0510-53Pan Head Screw And Washer As		Deat Name an	Description	01
32S1002-YA40210-H70033013351002-YA40310-H700Dead Plate 2, Engine, 37013490002-1040-01Flange Bolt, M10 x 1.25 x 40, Blue White Zinc43551005HY9X0110-0000Vibration Mount, Frame43690001-0612-03Flange Bolt, M6 x 12, Black Zinc33790001-0625-03Flange Bolt, M6 x 25, Black Zinc13930009-YBE0110-0000Groundn Wire14090305-0600-Z1Lock Washer, Ø6, Toothed, Blue White Zinc14190408-0600-E3Flat Washer, Black Zinc24290403-0600-03Flat Washer, Black Zinc24390312-0600-33Wing Nut, M6, Black Zinc14417003-YA40110-0100Air Cleaner Support14530081HYA40210-H700Holder 1, Control Unit14630081HYA40210-H700Holder 2, Control Unit1479001-0608-03Flange Bolt, M6 x 8, Black Zinc14830431-Z010110-0000Rubber Sleeve, Ø9.5 x Ø11 x 901499001-0608-03Flange Bolt, M6 x 16, Black Zinc45035610-YBE0510-H300Control Panel Subassembly45190007-0616-A3Flange Bolt, M6 x 16, Black Zinc45190001-0620-03Flange Bolt, M6 x 20, Black Zinc65130043-YBE0110-0000Flange Bolt, M6 x 20, Black Zinc65290406-0600-E3Flange Bolt, M6 x 20, Black Zinc1<	#	Part Number	-	ųty.
3351002-YA40310-H70037013490002-1040-01Flange Bolt, M10 x 1.25 x 40, Blue White Zinc43551005HY9X0110-0000Vibration Mount, Frame43690001-0612-03Flange Bolt, M6 x 12, Black Zinc33790001-0625-03Flange Bolt, M6 x 25, Black Zinc13890415-0600-Z1Lock Washer, Ø6, Toothed, Blue White Zinc14090305-0600-33Flange Nut, M6, Black Zinc34190408-0600-E3Flat Washer, Black Zinc24390312-0600-33Wing Nut, M6, Black Zinc14417003-YA40110-0100Air Cleaner Support14530081HYA40210-H700Holder 1, Control Unit14790001-0608-03Flange Bolt, M6 x 8, Black Zinc14830431-Z010110-0000Rubber Sleeve, Ø.5 x Ø11 x 9014990314-0600-33Wing Nut, M6, Black Zinc15035610-YBE0510-H300Rubber Sleeve, Ø.5 x Ø11 x 9015190007-0616-A3Flange Bolt, M6 x 16, Black Zinc45290406-0600-E3Flange Bolt, M6 x 16, Black Zinc45390001-0620-03Flange Bolt, M6 x 20, Black Zinc65430043-YBE0110-0000Flange Bolt, M6	32	51002-YA40210-H700		1
3490002-1040-0140, Blue White Zinc43551005HY9X0110-0000Vibration Mount, Frame43690001-0612-03Flange Bolt, M6 x 12, Black Zinc33790001-0625-03Flange Bolt, M6 x 25, Black Zinc13890415-0600-Z1Lock Washer, Ø6, Toothed, Blue White Zinc14090305-0600-33Flange Nut, M6, Black Zinc24190408-0600-E3Flat Washer, Black Zinc24290403-0600-03Flat Washer, Black Zinc14417003-YA40110-0100Air Cleaner Support14530081HYA40210-H700Holder 1, Control Unit14630081HYA40210-H700Holder 2, Control Unit1479001-0608-03Flange Bolt, M6 x 8, Black Zinc14830431-Z010110-0000Rubber Sleeve, Ø.9.5 x d11 x 9014990314-0600-33Wing Nut, M6, Black Zinc15035610-YBE0510-H300Control Panel Subasembly15190007-0616-A3Flange Bolt, M6 x 16, Black Zinc15290406-0600-E3Flange Bolt, M6 x 20, Black Zinc65390001-0620-03Flange Bolt, M6 x 20, Black Zinc15430043-YBE0110-0000Rubersterw And Washer Assembly, M5 x 16, Black Zinc15430043-YBE0110-0000Flange Bolt, M6 x 20, Black Zinc65430680-Y9X0210-Q200Control Box15635680-Y9X0210-Q200Control Box150Sof600-Y9X0210-Q200Cont	33	51002-YA40310-H700		1
36 90001-0612-03 Flange Bolt, M6 x 12, Black Zinc 3 37 90001-0625-03 Flange Bolt, M6 x 25, Black Zinc 1 38 90415-0600-Z1 Lock Washer, Ø6, Toothed, Blue White Zinc 1 39 30009-YBE0110-0000 Grounding Wire 1 40 90305-0600-33 Flange Nut, M6, Black Zinc 2 41 90408-0600-E3 Flat Washer, Black Zinc 2 42 90403-0600-03 Flat Washer, Black Zinc 2 43 90312-0600-33 Wing Nut, M6, Black Zinc 1 44 17003-YA40110-0100 Air Cleaner Support 1 45 30081HYA40210-H700 Holder 1, Control Unit 1 46 300431-Z010110-0000 Rubber Sleeve, Ø.5 x Ø11 x 90 1 47 90001-0608-03 Flange Bolt, M6 x 16, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Flange Bolt, M6 x 20, Black Zinc 6 <tr< th=""><th>34</th><th>90002-1040-01</th><th></th><th>4</th></tr<>	34	90002-1040-01		4
36 90001-0612-03 Black Zinc 3 37 90001-0625-03 Flange Bolt, M6 x 25, Black Zinc 1 38 90415-0600-Z1 Lock Washer, Ø6, Toothed, Blue White Zinc 1 39 30009-YBE0110-0000 Grounding Wire 1 40 90305-0600-33 Flange Nut, M6, Black Zinc 2 41 90403-0600-E3 Flat Washer, Black Zinc 2 43 90312-0600-33 Wing Nut, M6, Black Zinc 1 44 17003-YA40110-0100 Air Cleaner Support 1 45 30081HYA40210-H700 Holder 1, Control Unit 1 47 90001-0608-03 Flange Bolt, M6 x 8, Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Flange Bolt, M6 x 20, Black Zinc 6 54	35	51005HY9X0110-0000	Vibration Mount, Frame	4
37 90001-0625-03 Black Zinc 1 38 90415-0600-Z1 Lock Washer, Ø6, Toothed, Blue White Zinc 1 39 30009-YBE0110-0000 Grounding Wire 1 40 90305-0600-33 Flange Nut, M6, Black Zinc 2 41 90408-0600-E3 Flat Washer, Black Zinc 2 42 90403-0600-03 Flat Washer, Black Zinc 1 44 17003-YA40110-0100 Air Cleaner Support 1 45 30081HYA40210-H700 Holder 1, Control Unit 1 46 30081HYA40110-H700 Holder 2, Control Unit 1 47 90001-0608-03 Flange Bolt, M6 x 8, Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Flange Bolt, M6 x 20, Black Zinc 6 53	36	90001-0612-03	•	3
38 90415-0600-21 Toothed, Blue White Zinc 1 39 30009-YBE0110-0000 Grounding Wire 1 40 90305-0600-33 Flange Nut, M6, Black Zinc 2 41 90408-0600-E3 Flat Washer, Black Zinc 2 42 90403-0600-03 Flat Washer, Black Zinc 2 43 90312-0600-33 Wing Nut, M6, Black Zinc 1 44 17003-YA40110-0100 Air Cleaner Support 1 45 30081HYA40210-H700 Holder 1, Control Unit 1 46 30081HYA40110-H700 Holder 2, Control Unit 1 47 90001-0608-03 Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Flange Bolt, M6 x 20, Black Zinc 1 53 90001-0620-03 Flange B	37	90001-0625-03	•	1
40 90305-0600-33 Flange Nut, M6, Black Zinc 3 41 90408-0600-E3 Flat Washer, Black Zinc 2 42 90403-0600-03 Flat Washer, Black Zinc 2 43 90312-0600-33 Wing Nut, M6, Black Zinc 1 44 17003-YA40110-0100 Air Cleaner Support 1 45 30081HYA40210-H700 Holder 1, Control Unit 1 46 30081HYA40110-H700 Holder 2, Control Unit 1 47 90001-0608-03 Flange Bolt, M6 x 8, Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Flange Bolt, M6 x 20, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 <t< th=""><th>38</th><th>90415-0600-Z1</th><th></th><th>1</th></t<>	38	90415-0600-Z1		1
40 90305-0600-33 Zinc 3 41 90408-0600-E3 Flat Washer, Black Zinc 2 42 90403-0600-03 Flat Washer, Black Zinc 1 43 90312-0600-33 Wing Nut, M6, Black Zinc 1 44 17003-YA40110-0100 Air Cleaner Support 1 45 30081HYA40210-H700 Holder 1, Control Unit 1 46 30081HYA40210-H700 Holder 2, Control Unit 1 47 90001-0608-03 Flange Bolt, M6 x 8, Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Washer, Ø6.4 x Ø18 x 1.6, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 <tr< th=""><th>39</th><th>30009-YBE0110-0000</th><th>Grounding Wire</th><th>1</th></tr<>	39	30009-YBE0110-0000	Grounding Wire	1
42 90403-0600-03 Flat Washer, Black Zinc 2 43 90312-0600-33 Wing Nut, M6, Black Zinc 1 44 17003-YA40110-0100 Air Cleaner Support 1 45 30081HYA40210-H700 Holder 1, Control Unit 1 46 30081HYA40210-H700 Holder 2, Control Unit 1 47 90001-0608-03 Flange Bolt, M6 x 8, Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Washer, Ø6.4 x Ø18 x 1.6, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 54 35680-Y9X0210-Q200 Control Box 1	40	90305-0600-33	u , , ,	3
43 90312-0600-33 Wing Nut, M6, Black Zinc 1 44 17003-YA40110-0100 Air Cleaner Support 1 45 30081HYA40210-H700 Holder 1, Control Unit 1 46 30081HYA40110-H700 Holder 2, Control Unit 1 47 90001-0608-03 Flange Bolt, M6 x 8, Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø.5. x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Flange Bolt, M6 x 20, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y900110-0000 Handle Sheath, Ø28 x 150 1 58 54101-Y990110-00000 Handle Assembly <t< th=""><th>41</th><th>90408-0600-E3</th><th>Flat Washer, Black Zinc</th><th>2</th></t<>	41	90408-0600-E3	Flat Washer, Black Zinc	2
44 17003-YA40110-0100 Air Cleaner Support 1 45 30081HYA40210-H700 Holder 1, Control Unit 1 46 30081HYA40110-H700 Holder 2, Control Unit 1 47 90001-0608-03 Flange Bolt, M6 x 8, Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Washer, Ø6.4 x Ø18 x 1.6, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 150 1 59 CMP-SBG-5500 Handle Assembly 1 </th <th>42</th> <th>90403-0600-03</th> <th>Flat Washer, Black Zinc</th> <th>2</th>	42	90403-0600-03	Flat Washer, Black Zinc	2
45 30081HYA40210-H700 Holder 1, Control Unit 1 46 30081HYA40110-H700 Holder 2, Control Unit 1 47 90001-0608-03 Flange Bolt, M6 x 8, Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Flange Bolt, M6 x 20, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Invertor, 10, Black Zinc 1 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle Sheath, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 1.2 1 59 CMP-SBG-5500 Handle Assembly 1 50 90501-0238-03 Cotter Pin, Ø2 x 38, 1 <th>43</th> <th>90312-0600-33</th> <th>Wing Nut, M6, Black Zinc</th> <th>1</th>	43	90312-0600-33	Wing Nut, M6, Black Zinc	1
46 30081HYA40110-H700 Holder 2, Control Unit 1 47 90001-0608-03 Flange Bolt, M6 x 8, Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Washer, Ø6.4 x Ø18 x 1.6, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y990110-0000 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Assembly 1 50 CMP-SBG-5500 Handle Assembly 1	44	17003-YA40110-0100	Air Cleaner Support	1
47 90001-0608-03 Flange Bolt, M6 x 8, Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Washer, Ø6.4 x Ø18 x 1.6, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Assembly 1 59 CMP-SBG-5500 Handle Assembly 1	45	30081HYA40210-H700	Holder 1, Control Unit	1
47 90001-0608-03 Black Zinc 1 48 30431-Z010110-0000 Rubber Sleeve, Ø9.5 x Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Washer, Ø6.4 x Ø18 x 1.6, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 150 1 59 CMP-SBG-5500 Handle Assembly 1	46	30081HYA40110-H700		1
48 30431-2010110-00000 Ø11 x 90 1 49 90314-0600-33 Wing Nut, M6, Black Zinc 1 50 35610-YBE0510-H300 Control Panel Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Washer, Ø6.4 x Ø18 x 1.6, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 150 1 59 CMP-SBG-5500 Handle Assembly 1	47	90001-0608-03		
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50 35610-YBE0510-H300 Subassembly 1 51 90007-0616-A3 Flange Bolt, M6 x 16, Black Zinc 4 52 90406-0600-E3 Washer, Ø6.4 x Ø18 x 1.6, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 1.2 1 59 CMP-SBG-5500 Handle Assembly 1 60 90501-0238-03 Cotter Pin, Ø2 x 38, 1 1	49	90314-0600-33	Wing Nut, M6, Black Zinc	1
51 90007-0616-A3 Black Zinc 4 52 90406-0600-E3 Washer, Ø6.4 x Ø18 x 1.6, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 1.2 1 59 CMP-SBG-5500 Handle Assembly 1 60 90501-0238-03 Cotter Pin, Ø2 x 38, 1 1	50	35610-YBE0510-H300		1
52 90406-0600-E3 1.6, Black Zinc 4 53 90001-0620-03 Flange Bolt, M6 x 20, Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 1.2 1 59 CMP-SBG-5500 Handle Assembly 1 60 90501-0238-03 Cotter Pin, Ø2 x 38, 1 1	51	90007-0616-A3	-	4
53 90001-0620-03 Black Zinc 6 54 30043-YBE0110-0000 Invertor, 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 150 1 59 CMP-SBG-5500 Handle Assembly 1 60 90501-0238-03 Cotter Pin, Ø2 x 38, 1	52	90406-0600-E3		4
54 30043-YBE0110-0000 4.8Kw/240V/60Hz 1 55 90255-0510-53 Pan Head Screw And Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 150 1 59 CMP-SBG-5500 Handle Assembly 1 60 90501-0238-03 Cotter Pin, Ø2 x 38, 1	53	90001-0620-03	- · · ·	6
55 90255-0510-53 Washer Assembly, M5 x 10, Black Zinc 6 56 35680-Y9X0210-Q200 Control Box 1 57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 150 1 59 CMP-SBG-5500 Handle Assembly 1 60 90501-0238-03 Cotter Pin, Ø2 x 38, 1	54	30043-YBE0110-0000	,	
57 54110-Y9X0310-H700 Handle, Ø28 x 1.2 1 58 54101-Y990110-0000 Handle Sheath, Ø28 x 150 1 59 CMP-SBG-5500 Handle Assembly 1 60 90501-0238-03 Cotter Pin, Ø2 x 38, 1 1	55	90255-0510-53	Washer Assembly, M5 x	
58 54101-Y990110-0000 Handle Sheath, Ø28 x 150 1 59 CMP-SBG-5500 Handle Assembly 1 60 90501-0238-03 Cotter Pin, Ø2 x 38, 1	56	35680-Y9X0210-Q200	Control Box	1
58 54101-Y990110-0000 150 1 59 CMP-SBG-5500 Handle Assembly 1 60 90501-0238-03 Cotter Pin, Ø2 x 38, 1	57	54110-Y9X0310-H700	Handle, Ø28 x 1.2	1
60 90501-0238-03 Cotter Pin, Ø2 x 38, 1	58	54101-Y990110-0000		
60 1 90501-0238-03	59	CMP-SBG-5500	Handle Assembly	1
	60	90501-0238-03		1

#	Part Number	Description	Qty.
61	90001-0630-03	Flange Bolt, M6 x 30,	4
01	90001-0630-03	Black Zinc	4
62	54113HY9X0110-H700	Handle Tube Connecting Seat	1
63	90504-Y9X0110-0300	Pin Shaft, Ø8 x 45, Black Zinc	1
64	51008-Y2D0210-0000	Shock Absorption Pole	1
65	90501-Y2C0110-0300	Cotter Pin, Black Zinc	2
66	44020-Y9X0110-0300	Roll Pin, Ø16 x 98, Black Zinc	2
67	44110-Y9X0110-0000	8in. Wheel, Yellow	2
68	51016-Y9X0110-H700	Support Leg	1
69	51014HY9X0110-0000	Vibration Mount, Support Leg, 15 mm	2
70	90305-0800-33	Flange Nut, M8, Black Zinc	2
71	90684-Z010310-0000	Clip, 130 mm	2
72	31234-YBE0110	8Amp Circuit Breaker, Push Botton	
73	35160-Y0G0110-0000	Economy Switch	1
74	35619-Y110110	Automotive Receptacle, 12V DC	
75	30700-YBE0110	Ignitor	
76	35160-Y450110-0000	Switch, 16A/250V 1	
77	16080-Y9K0110	Choke Cable Assembly	
78	35632-Y9X0110	Intelligauge, VFT-3	1
79	35614-Y9X0110	GFCI 5-20R Receptacle	2
80	35654-YBE0110	Receptacle Cover, GFCI 5-20R	2
81	35614-Y090110	L14-30R Receptacle, 125V/250V/30A	1
82	35654-YBE0210	Receptacle Cover, L14- 30R	
83	31234-YBE0210	20Amp Circuit Breaker, Push Botton	2
84	35646-Y2V0110	Reset Button, AC250V/0.5A	
85	R300MI000FB-CMP003	Engine, 301cc	1
86	93106HY020210-0000	Flexible Oil Funnel	1
87	35613-YBE0110-0000	USB Adapter	1
88	93041-YBE0110-0000	Battery Charger Cables, 2 m	1

SPECIFICATIONS

#	Part Number	Description	Qty.
89	90001-0610-03	BOLT M6 x 10, Black Zinc	2

Engine Parts Diagram



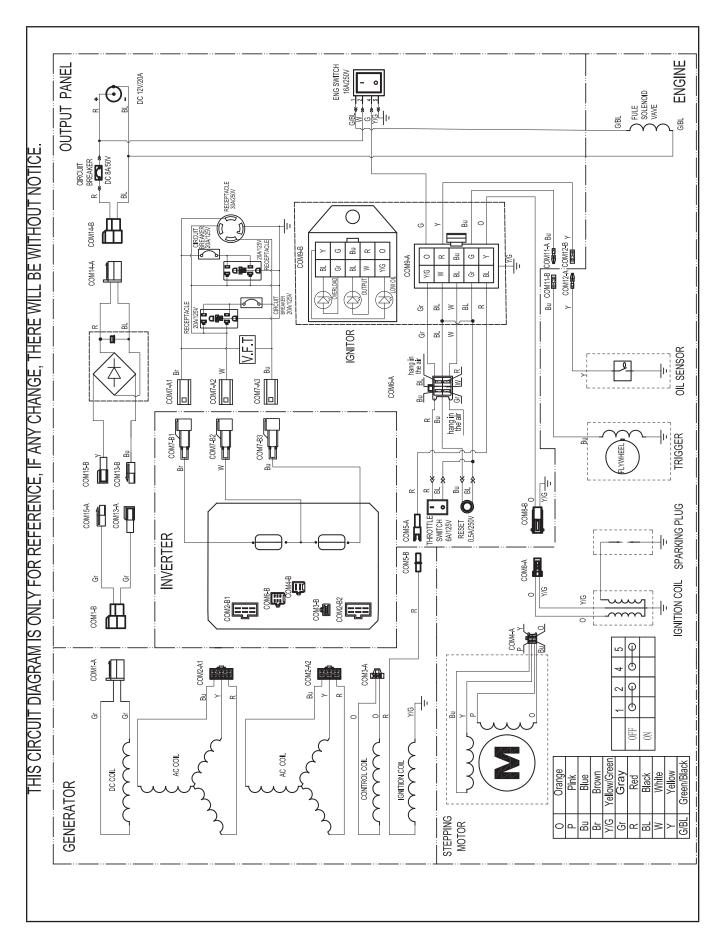
Engine Parts List

#	Part Number	Description	Qty.	
		Cylinder Head Cover Bolt		
1	12032-Z080110-0100	Subassembly, Blue White	1	
		Zinc		
		Cylinder Head Cover		
2	12034-Z080110-0099	Gasket Subassembly,	1	
		Blue White Zinc		
		Cylinder Head Cover		
3	12410-Z580110-0199	Subassembly, Octagon,	1	
		Blue White Zinc		
4	12004-Z580110-0099	Cylinder Head Cover	1	
4	12004-2300110-0099	Gasket		
5	30010-Z010110-0000	Spark Plug, F6RTC	1	
6	00202 7010110 0000	Stud, M8 x 34, Black	2	
	90203-Z010110-0000	Zinc	2	
7	90204-Z0C0120-0000	Stud, M6/8 x 108, Black	2	
Ľ	00204-2000120-0000	Zinc	۷	
8	12140-Z0C0110-0B00	Cylinder Head	1	
Ľ		Subassembly	<u> </u>	
9	12003-Z080110-0000	Cylinder Head Bolt, M10	4	
		x 80, Blue White Zinc		
10	90502-1220-00	Pin, Ø12 x Ø20	2	
11	12131-Z730120-00LS	Cylinder Head Gasket	1	
12	17004-Z080510-0000	Breather Tube, Ø10.5 x	1	
		Ø15 x 125		
13	90412-Z080110-0000	Flat Washer	1	
14	19304-Z080110-0000	Cylinder Body Shroud,	1	
		Blue White Zinc		
15	11310-Z0C0310-0B09	Crankcase Subassembly	1	
16	90682-Z080110-0000	Oil Seal, Ø30 x Ø46 x 8	1	
		Connecting, Oil Drain		
17	90689-Z120110-0000	Fuel Hose, $\emptyset 6.5 \times \emptyset 12$,	1	
<u> </u>		M12×1.5		
		Oil Drain Fuel Hose,		
18	11011HZ980110-0B00	d=9.5, D=17, L=330,	1	
		Black		
19	90001-0520-01	Hexagon Flange Bolt, M5 x 20, Blue White Zinc	2	
20	37060-Z080120-0000	Oil Sensor	1	
20	01000-2000120-0000	Hexagon Flange Bolt, M6		
21	90001-0616-01	x 16, Blue White Zinc	2	
22	30400-Z980110-0001	Ignition Coil	1	
<u> </u>		Hexagon Flange Nut, M10		
23	90305-Z010210-01	x 15, Blue White Zinc	0 1	
24	30130-Z980120-0000	Trigger	1	
<u> </u>		Hexagon Flange Bolt, M5	<u> </u>	
25	90001-0516-01	x 16, Blue White Zinc	2	
26	30002-Z980110-0000	Magneto Wiring Clamp	1	
			· ·	

#	Part Number	Description	Qty.
		Hexagon Flange Bolt, M5	
27	90001-0510-01	x 10, Blue White Zinc	1
28	11411-Z0C0110-0B01	Crankcase Cover	1
20	11411-2060110-0601	Assembly	'
29	11001-Z580120-0000	Crankcase Gasket	1
30	90502-0912-00	Pin, Ø9 x Ø12	2
31	15010-Z080130-OB00	Oil Dipstick Subassembly, 109C	1
32	90547-0206-00TM	Deep Groove Ball Bearing	1
33	90001-0835-01	Hexagon Flange Bolt, M8 x 35, Blue White Zinc	7
34	13300-Z0C0110-RBTM	Crankshaft Assembly	1
35	90524-Z010110-0000	Woodruff Key	1
36	13010-Z730120-0099	Connecting Rod	1
37	13200-Z730110-0099	Piston Rings Set	1
38	13111-Z730120-0099	Piston	1
39	13122-Z730110-0099	Piston Pin Clip	2
40	13121-Z730110-0000	Piston Pin, Ø15 x 53	1
41	14200-Z730120-0099	Camshaft Assembly	1
42	14312-Z010110-0000	Valve Lock Nut	2
43	14314-Z010110-0000	Valve Adjusting Nut	2
44	14311-Z080110-0000	Valve Rocker	2
45	14313-Z010110-0000	Valve Adjusting Bolt	2
46	14090-Z080110-0000	Guide Plate Subassembly, Blue White Zinc	1
47	14070-Z730110-0000	Valve Rod	2
48	14081-Z580110-0000	Valve Lifter	2
49	12110-Z730110-0099	Valve set	1
50	12111-Z730110-0000	Inlet Valve	1
51	12121-Z730110-0000	Exhaust valve	1
52	12101-Z020110-0000	Seal Guide	2
53	12105-Z080110-0000	Valve Spring Seat	2
54	12103-Z730110-0099	Valve Spring	2
55	12112-Z730110-0000	Valve Spring Retainer Valve Collet	2
56	12109-Z730110-0000	Valve Collet Hexagon Flange Bolt, M6	4
57	90001-0620-01	x 20, Blue White Zinc	3
58	28200-Z980410-H700	Recoil Starter Assembly	1
59	90408-0600-E1	Flat Washer, M6, Blue White Zinc	6
60	90001-0612-01	Hexagon Flange Bolt, M6 x 12, Blue White Zinc	15
61	28261-Z980110-0000	Circlip, Rope	1
62	28110-Z0C0110-0B00	Shroud	1
63	19305-Z0C0120-0000	Cylinder Body Shroud	1
64	90684-Z030120-0000	Clip, 100 mm	1

#	Part Number	Description	Qty.
65	17001-Z080210-0000	-0000 Air Cleaner Gasket	
66	16100-Z0C0210-0109	Carburetor Assembly	1
67	16001-Z080110-0000	Carburetor Gasket	1
68	16003-Z0C0110-0000	Carburetor Insulator Plate	1
69	17002-Z080110-0000	Inlet Gasket	1
70	14411-Y2V0110-0000	Cap, Stepping Motor	1
71	17100-Z101710-0001	Air Cleaner Subassembly	1
72	90305-0600-31	Hexagon Flange Nut, M6, Blue White Zinc	2
73	17151-Z100810-0000	Element, Air Cleaner	1
74	13501-Z080110-0000	Flywheel Nut, M16 x 1.5, Blue White Zinc	1
75	28002-Z980110-0000 Starter Pulley, Blue Whi Zinc		1
76	28020-Z150120-0000	Starter Pulley Base	1
77	19352-Z980110-0000	Impeller	1
78	90102-0660-06	Hexagon Socket Cap Screw, M6 x 60	3
79	30110-YBG0110-0000	Rotor Component, Ø210 x 69.5	1
80	30120-YBE0210-0000	Stator Component, Ø179 x 39	1
	16161-Z730210-0000	Main Jet, Standard	1
81	16161-Z020910-0000	Main Jet, Altitude 3000- 6000 Feet	1
	16161-Z140510-0000	Main Jet, Altitude 6000- 8000 Feet	1
82	16112-Z0C0110-0000	Float Seal Ring	1
83	90681-Z0C0110-0000	Seal Ring	1
84	90685-Z980110-0000 Clamp		1
85	11011-Z980210-0000	1011-Z980210-0000 Oil Drain Fuel Hose	
86	15031HZ980110-0000	110-0000 Engine Oil Plug	
87	300i-001	Cylinder Head Subassembly	1

Wiring Diagram



TROUBLESHOOTING

Problem	Cause	Solution
	No fuel.	Add fuel.
	Faulty spark plug.	Clean and adjust spark plug or replace.
		Fill crankcase to the proper level.
	Low oil level.	Place generator on a flat, level surface.
Engine will not start.	Spark plug wire loose.	Attach wire to spark plug.
	Fuel valve is closed.	Open fuel valve.
	Engine switch OFF.	Press Engine switch ON.
	Old fuel or water in fuel.	Drain fuel and replace with fresh fuel.
	Flooded with fuel.	Let unit stand for 10 mins.
	Choke in the wrong position.	Move choke until it stops under RUN position or push in completely.
Engine starts but runs roughly.	Dirty air filter.	Clean or replace air filter.
	Dirty fuel valve.	Clean the fuel valve.
	Clogged spark arrestor.	Clean spark arrestor.
	Out of fuel.	Fill fuel tank.
Engine shuts down during operation.	Low oil level.	Fill crankcase to the proper level. Place generator on a flat, level surface.
	Clogged spark arrestor.	Clean spark arrestor.
	Generator is overloaded.	Review load and adjust. See "Connecting Electrical Loads."
Generator cannot supply enough power or overheating.	Dirty air filter.	Clean or replace air filter.
or overneating.	Choke in wrong position.	Move choke until it stops under RUN position or push in completely.
	Poor cord connection.	Check all connections.
	Circuit breaker is open.	Reset circuit breaker.
	Loose wiring.	Inspect and tighten wiring connections.
Engine is running but no AC output.	GFCI tripped.	Contact Reset GFCI receptacle breakers by pushing the TEST and RESET buttons until green LED illuminates. the help line.
	Other.	Contact the help line.
	Engine governor defective.	Contact the help line.
	Dirty fuel valve.	Clean the fuel valve.
Engine hunts or falters.	Carburetor is dirty and running lean.	Contact the help line.
	Choke in wrong position.	Move choke until it stops under RUN position or push in completely.
	Overload.	Review load and adjust. See "Connecting Electrical Loads."
Repeated circuit breaker tripping.	Faulty power cords or device.	Check for damaged, bare or frayed wires. Replace defective device.
	Circuit breaker still too hot.	Let unit sit for 5 mins.

For other issues and technical support:

Technical Support Team Mon-Fri 8:30 AM-5:00 PM (PST/PDT) Toll Free 1-877-338-0999 support@championpowerequipment.com