

#### **OPERATOR'S MANUAL**

MODEL #201160 12,000W ELECTRIC START GENERATOR



**REGISTER YOUR PRODUCT ONLINE** 

at championpowerequipment.com



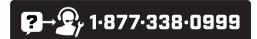












or visit championpowerequipment.com

**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 meets the requirements of the PGMA (Portable Generator Manufacturers' Association) standard ANSI/PGMA G300-2018 (Safety and Performance of Portable Generators).

Covered by one or more of the following U.S. Patent Numbers: #10,862,414 and other U.S. and foreign patents pending.



MANA

#### CARBON MONOXIDE SAFETY: THE BIG PICTURE

As the only safe way to use a portable generator, taking your generator outside is absolutely mandatory to keep your family safe from carbon monoxide. But there's even more you can do. By educating yourself about all carbon monoxide risks, you'll be better prepared to protect your family from this colorless, oderless threat.



www.TakeYourGeneratorOutside.com

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#### ♥ FOR PARTS BREAKDOWN

Search by model number at championpowerequipment.com

#### 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 1-877-338-0999 MODEL NUMBER 201160 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.

#### NOTICE

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 - www.P65Warnings.ca.gov

#### **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** DANGER

Tampering with the CO Shield® system will result in a hazardous condition and will void your warranty.

Removing the CO Shield® module will not allow the generator to start.

#### **A** DANGER

Operate equipment with quards 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.

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

When starting engine, pull the recoil 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 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** 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

#### **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.

Turn the generator off and let cool for at least two minutes before removing the gasoline cap. Always loosen the cap slowly to relieve pressure in the 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 container to transfer the fuel 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 check that the gasoline cap, air filter, spark plug, fuel lines and exhaust system are properly in place.

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

Always be certain that the generator is resting firmly on level around.

#### When operating the generator:

DO NOT move or tip the generator during operation.

#### When transporting or servicing the generator:

Always check 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** DANGER

NEVER place a gasoline container, gasoline tank, LPG cylinder or any combustible material in the path of the exhaust stream during operation of the engine.

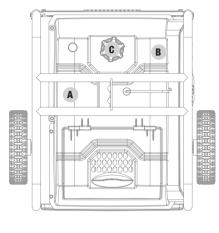
#### **A WARNING**

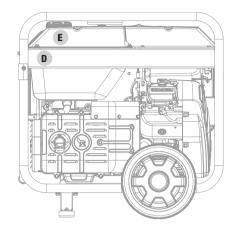
Never use a gasoline container, gasoline tank, or any other fuel item that is broken, cut, torn or damaged.

#### **Safety and Dataplate 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.





Top Back

	LABEL	DESCRIPTION
A	SHEED COMMENT AND ADDRESS OF THE ADD	CO Shield® Action – automatic shutoff *See CO Shield® section
В	A CANCER  Control of the Control of	Safety Symbols/ CO Danger
С	UNICE FIRST. STRIKE Minimum extense selling of IC All Antonium 1970, without a continual first of the first o	Fuel
D	A WARNING  A ADVENTENCIA  A AVENTURE A ADVENTE SEMENT  Design of the companies the companies of the companie	Hot Surface
E	CHAMPION POWER EQUIPMENT, INC.  2033 SMITH AVENUE SANTIA FE SERRIGG, CA 80970 GARDINATE ALL SERVICE AL	Dataplate

#### **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
	<b>Read Operator's Manual.</b> To reduce the risk of injury, user must read and understand operator's manual before using this product.
\$ 5ft/1.5m	<b>Clearance.</b> Keep all objects at least 5 feet (1.5m) from generator. Heat from the muffler and exhaust gas can ignite combustible objects.
	<b>Ground.</b> Consult with local electrician to determine grounding requirements before operation.
<u>A</u>	<b>Electric Shock.</b> 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 feet (1.5m) from all objects to prevent combustion.
	Hot Surface. To reduce the risk of injury or damage, avoid contact with any hot surface.
	<b>Open Flame Alert.</b> 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
•	Start
4	On
	Stop or Off
	Gasoline Valve On/Off
<del>                                    </del>	<b>Run.</b> Push choke knob to "RUN" position.
N	<b>Choke.</b> Pull choke knob to "CHOKE" position.
1	Circuit Breaker: On
0	Circuit Breaker: Off
134	Circuit Breaker Reset: Flip
3	Circuit Breaker Reset: Push
	Locking Receptacle

SYMBOL	MEANING
ΝŢ	Neutral Bonded to Frame. Neutral circuit IS electrically connected to the frame/ground of the generator.
	<b>High CO Warning.</b> Move generator to an open, outdoor area. Move to fresh air and get medical help if sick, dizzy or weak.
<u>^</u>	CO Shield System Fault. Electrical issue, end of life.
•	Ground Terminal
	Gasoline Tank: Full
	Gasoline Tank: Empty

#### **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 5W-30.

2. Check gasoline level.

When adding gasoline, use a minimum octane rating of 87 and an ethanol content of 10% or less by volume.

- 3. Turn the fuel dial to "ON" position.
- 4. Pull choke knob out to "CHOKE" position.
- 5. Press ignition switch to the "START" position.
- 6. Push choke knob in to "RUN" position.
- 7. Plug in desired device.

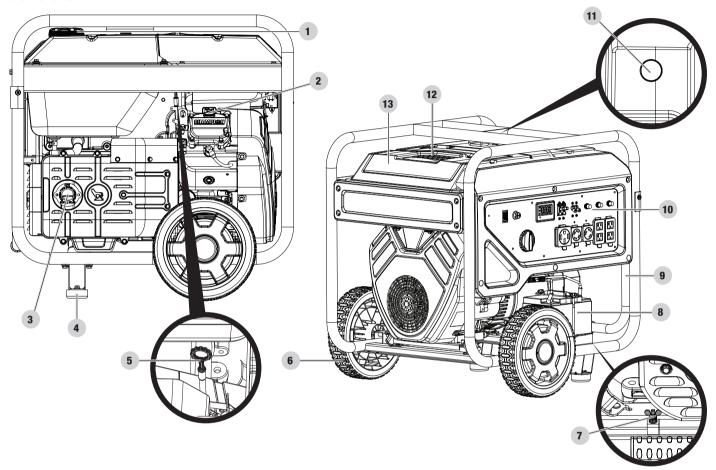
#### **Stopping the Engine**

- 1. Turn off and unplug all connected electrical loads.
- 2. Press the **ignition switch** to the "OFF" position.
- 3. Turn the fuel dial 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.

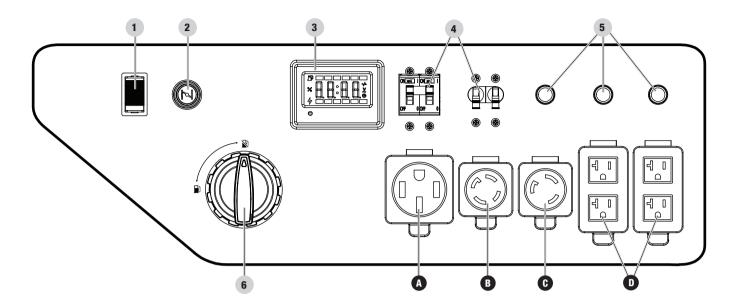
#### **Generator**



- 1. Fuel Cap Remove to add fuel.
- 2. Oil Fill Cap Used to fill oil.
- 3. Spark Plug Arrester and Muffler
- 4. Support Leg
- 5. **Dipstick** Used to check oil level.
- 6. **Never Flat Wheels** 12 in. (30.5 cm)
- 7. **Ground Terminal** Consult an electrician for local grounding regulations.

- 8. **Battery** Provides 12V DC power to the starting system.
- 9. **Folding Handle** Used to move unit by lifting and rolling on wheels. Do not use to lift or carry the unit.
- 10. **Control Panel** See *Control Panel* section.
- 11. Gasoline Gauge
- 12. Engine Access Cover
- 13. **Gasoline Tank** 11 gal. (41.20 L)

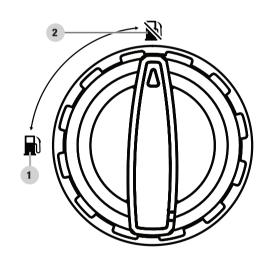
#### **Control Panel**



- 1. **Ignition Switch** Used to START or STOP the generator.
- 2. **Choke** Used to start a cold engine.
- 3. Intelligauge with Power Meter See Intelligauge section.
- 4. **Circuit Breakers (Flip Reset)** Protects the generator against electrical overloads.
- 5. **Circuit Breakers (Push Reset)** Protects the generator against electrical overloads.
- 6. Fuel Dial Used to turn fuel ON and turn OFF the generator.

RECEPTACLES		
Α	•	120/240V AC, 50A (NEMA 14-50R) May be used to supply electrical power for operation of 120/240 Volt AC, 50 Amp, single phase, 60 Hz electrical loads.
В	•	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.
С		120V AC, 30A Locking (NEMA L5-30R) May be used to supply electrical power for operation of 120 Volt AC, 30 Amp, single phase, 60 Hz electrical loads.
D	7.	(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.

#### **Fuel Dial**



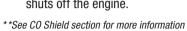
- 1. Gasoline Valve ON
- 2. Gasoline Valve OFF

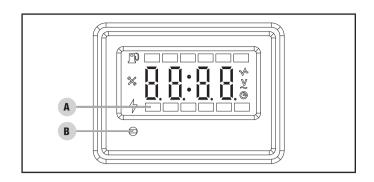
#### **Intelligauge with Power Meter**

Five mode digital meter for displaying voltage, frequency, session run time, total run time, and power output.

#### A. Power Meter

B. CO Shield® LED – The CO Shield® technology monitors for accumulation of poisonous carbon monoxide (CO) gas produced by engine exhaust when the generator is running. If CO Shield® detects elevated levels of CO gas, it automatically shuts off the engine.





	MODE	DE	SCRIPTION
		Output voltage of the generator.	
1	Voltage (V)	Example: 120 volts	
Output freq		Output fr	equency in hertz.
2	Frequency (H)	Example: 60.0 hertz	*H [ ] [ ] ž †   ] j
		Run time of the generator for the current session.	
3	Run Time (R)	Example: 6 hours	
		Total run time of the generator since first operation.	
4	Total Run Time	Example: 16 hours	×
		Continually dis	plays generator output.
5	4 Output Power	Example: 100% Power	

#### Industry Canada: CAN ICES-002/NMB-002

This device complies with Industry Canada license - exempt RSS standard(s).

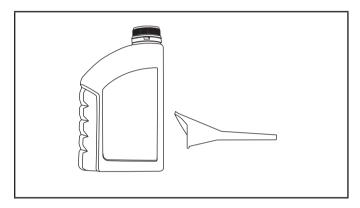
Operation is subject to the following two conditions:

- 1. This device may not cause interference, and
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

#### **Parts Included**

#### **Accessories**

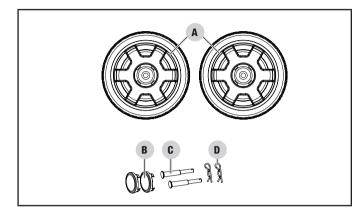
Engine Oil	. 33.8 fl. oz. (1000 ml)
Oil Funnel	



#### **Assembly Parts**

#### Wheels

12 in. (30.5 cm) Never Flat Wheel (A)	. 2
Wheel Hub Cap (B)	. 2
Roll Pin (C)	. 2
Large R-clip (D)	. 2



#### **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.

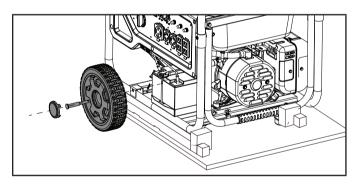
#### Install the Wheel Kit

#### **A** CAUTION

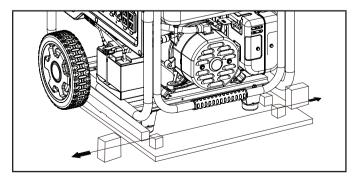
The wheel kit is not intended for over-the-road use.

#### Install the Wheels

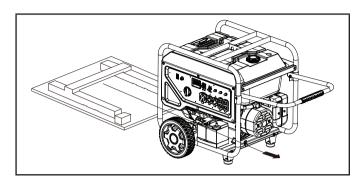
- Make sure all items have been removed from the shipping carton/pallet and double check for any items that may be in the generator frame.
- 2. With the generator still on the pallet install the wheel.
- 3. Slide the wheel pin roll through the wheel from the outside.
- 4. Slide the wheel pin roll through the mount point on the frame.
- 5. Secure with the R-Pin.
- 6. Install wheel hub cap onto wheel.



- 7. Repeat steps 2-6 to attach the second wheel.
- 8. Remove wooden blocks from in front of the frame and the support leg.

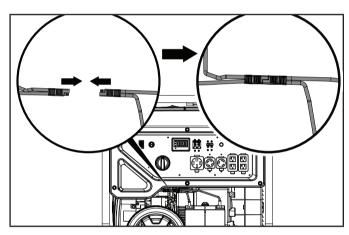


9. Raise handle and pull generator forward until wheels touch the ground. Then pull generator out from wood pallet.



#### **Connect the Battery**

- 1. Cut cable tie on each side of battery connector.
- 2. Push two halves of battery connector together tightly.



#### **Add Engine Oil**

#### **A WARNING**

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.

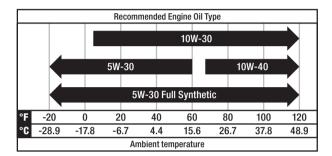
#### NOTICE

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

#### NOTICE

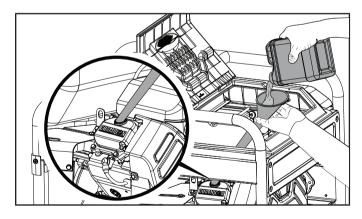
The recommended oil type for typical use is **5W-30** automotive oil. However, using the listed conventional oils shown in the "Recommended Engine Oil Type" chart may be used for typical use including the first 5 hours of the break-in run time period of the engine.

If running generator in extreme temperatures, refer to the "Recommended Engine Oil Type" chart.

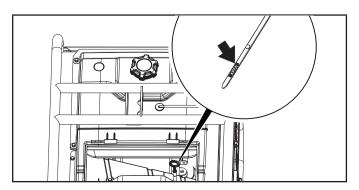


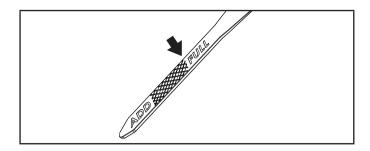
- 1. Place the generator on a flat, level surface.
- 2. Open the engine access cover.
- Remove yellow cap on cylinder head cover on left side of engine.
- Using funnel fill to full mark on dipstick. DO NOT OVERFILL.
   Volume for first use or oil change without oil filter change: 33.8 fl. oz. (1000 ml).

Volume after oil and oil filter change: 44 fl. oz. (1300 ml).



Pull out dipstick and check engine oil level. Add as needed. DO NOT OVERFILL.





- 6. Replace dipstick.
- 7. Close engine access cover.

#### NOTICE

Check oil level often during the break-in period. Refer to the Maintenance 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 decrease the recommended oil change interval. Full synthetic 5W-30 oil will aid in starting in cold ambient < 41° F (5° C) temperatures.

#### **Add Fuel**

#### **A** DANGER

Gasoline vapors are highly flammable and extremely explosive.

DO NOT light or smoke cigarettes. Fire or explosion can cause severe burns or death.

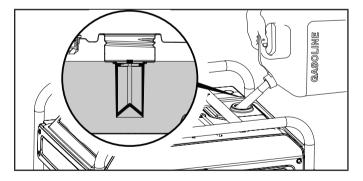
Only fill or drain fuel outdoors in a well-ventilated area. DO NOT pump gasoline directly into the generator. Use an approved container to transfer the fuel to the generator.

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

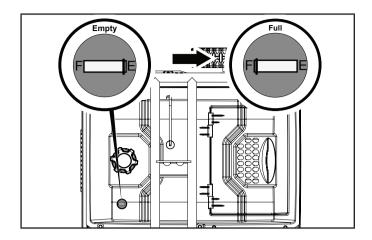
DO NOT overfill the gasoline tank. Always keep fuel away from sparks, open flames, pilot lights, heat and other sources of ignition.

DO NOT 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.



3. The approximate fuel level is shown on the fuel gauge on top of the fuel tank.



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

#### **A** CAUTION

Use unleaded gasoline with a minimum octane rating of 87 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  $\frac{1}{4}$  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 fuel 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 blended gasoline. When using ethanol-gasoline blends there are some issues worth noting:

- Ethanol-gasoline blends can absorb more water than gasoline alone.
- These ethanol 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 create 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 ethanol blended gasoline higher than 10% by volume, 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 Controls and Features for terminal location). For remote grounding, connect 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 crossmember below the alternator. The system ground is connected to the AC neutral wire.

#### **OPERATION**

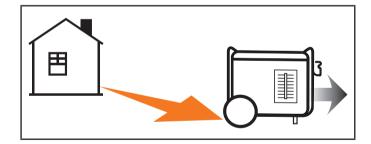
# CO Shield® - Carbon Monoxide (CO) Detection and Auto-shutoff System

CO Shield® technology monitors the accumulation of carbon monoxide (CO), a poisonous gas produced by engine exhaust when the generator is running. If CO Shield® detects unsafe elevated levels of CO gas, it automatically shuts off the engine.

CO SHIELD® IS NOT A SUBSTITUTE FOR AN INDOOR CARBON MONOXIDE ALARM OR FOR INDOOR OPERATION.

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

Generators must ALWAYS be used outdoors, far away from occupied buildings with engine exhaust pointed away from people and buildings.

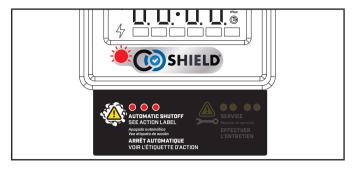


If misused and operated in an unapproved and unsafe location that results in the accumulation of poisonous CO gas inside an enclosed or partially enclosed space, for example a house, garage or a garage with the door partially open, CO Shield® will automatically shut off the generator and then will illuminate a blinking red LED light. **Read the action label for next steps.** 



<sup>\*</sup>See your Specifications section for specified type of grounding.

In the event of an engine shut off, when you approach the generator to investigate, a blinking **red** LED light in the CO Shield® area provides notification that the generator shut off due to an accumulating CO hazard. The red LED light will blink for at least five (5) minutes after an engine shut off event.



Move the generator far away to an open, outdoor area and point the exhaust away from people and buildings. Once relocated to a safe area, the generator can be restarted, and the proper electrical connections made. Introduce fresh air and ventilate the location where the generator shut off.

When restarting, the red and yellow LED will blink ten (10) times simultaneously to indicate the LED is working.

#### NOTICE

This blinking LED light does not indicate CO Shield® is working, as CO Shield® is working at all times when the generator is running. Also, the LED light will not blink (10) times if the generator was restarted within 1 minute after it was manually shut off. This does not occur if generator shut off from a high CO event.

If CO Shield® system experiences a fault and no longer provides protection, the generator is shutoff automatically and the **yellow** LED light will blink for at least five (5) minutes to notify you of the fault.



Call our Technical Support Team at 1-877-338-0999 for repair. The generator can be restarted, but will continue to shutoff.

#### **NOTICE**

CO Shield® will detect the accumulation of carbon monoxide (CO) from other fuel burning sources such as engine powered equipment, or propane heaters used in the area of operation. If another generator is used and the exhaust stream is pointed at a CO Shield® equipped generator, the CO Shield® may initiate a shutoff due to rising carbon monoxide (CO) levels. This is not a fault. Poisonous carbon monoxide (CO) has been detected. You must take action to move and direct the generator exhaust stream to better disperse carbon monoxide (CO) far away from people or buildings.

#### **A** DANGER

Tampering with the CO Shield® system will result in a hazardous condition and will void your warranty.

Removing the CO Shield® module will not allow the generator to start.

#### **Generator Location**

#### **A WARNING**

NEVER operate the generator inside any building, garage, basement, crawlspace, shed, enclosure or compartment, including a generator compartment of a recreational vehicle.

NEVER operate or start the generator in the back of an SUV, camper, trailer, truck bed (regular sides, flat or other configuration), under staircases, stairwells, next to walls or buildings or in any other location that will not allow for adequate cooling of the generator or for the proper exit of the exhaust flow from the muffler system.

DO NOT operate or store the generator in wet weather conditions such as rain or snow. Using a generator in wet conditions could result in serious injury or death due to electrocution.

In some state's generators may be required to be registered with the local utility company when used at construction sites and may be subject to additional rules and regulations, consult your local municipal authority.

Generators should always be operated on a flat, level surface at all times (even when not in operation).

Generators must have a minimum of 5 feet (1.5 m) of clearance from all combustible material.

Generators must also have a minimum of 3 feet (91.4 cm) of air flow clearance on all sides to allow for adequate performance cooling, maintenance and servicing.

Always place the generator in a well-ventilated area. NEVER place the generator near air intake vents or where exhaust fumes could be drawn into occupied or confined spaces.

Always carefully consider wind and air currents when positioning generator.

Always allow generators to properly cool before transport or for storage purposes.

Failure to follow proper safety precautions may result in personal injury, damage to the generator and void the manufacturer's warranty.

#### **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.

#### **A WARNING**

Do not expose to rain or use in damp locations.

Keep all objects a minimum of 5 feet (1.5m) away from the generator at all times. Heat from the muffler surface and exhaust gas stream can ignite combustible materials.

#### **A WARNING**

If you must operate in rain or damp locations, DO NOT operate without proper protection of the electrical components.

Use of a safety canopy that is fire retardant and will provide proper air ventilation for the engine exhaust gas stream may be used.

Visit championpowerequipment.com or call to find your Storm Shield cover.

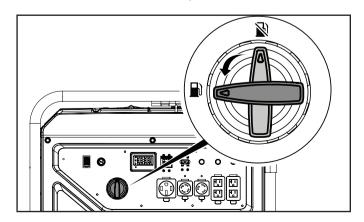
#### **Surge Protection**

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.

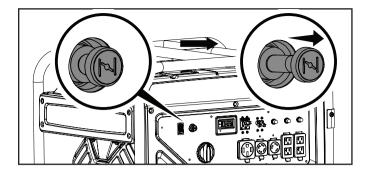
 Install UL1449, CSA-listed, plug-in surge suppressors on the outlets feeding your sensitive equipment.
 Surge suppressors come in single- or multi-outlet styles.
 They're designed to protect against virtually all short-duration voltage fluctuations.

#### **Starting the Engine**

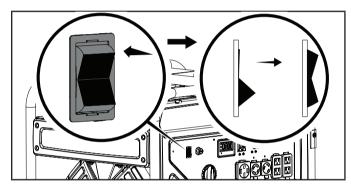
- 1. Make certain the generator is on a flat, level surface.
- Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in or turned on.
- 3. Turn the fuel dial to the "ON" position.



4. Pull the choke knob out.



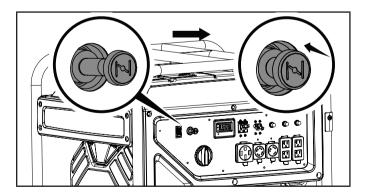
- 5. Flip the ignition switch to the "ON" position.
- 6. Press and hold the ignition switch to the "START" position. Release as the engine begins to start. If the engine fails to start within five seconds, release the switch and wait at least ten seconds before attempting to start the engine again.



#### **A** CAUTION

If the ignition switch is held down in the "START" position longer than 5 seconds it could damage the starter.

7. Do not over-choke. As soon as engine starts, push the choke knob in.



#### NOTICE

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

#### **Battery**

#### NOTICE

The supplied 12V sealed lead acid (SLA) battery will recharge while the engine is running. When the generator is not in use for extended periods of time, it is recommended that the battery be fully charged at least once a month with a slow charger and disconnected when fully charged or charged using a battery maintainer for long-term storage (not included).

#### **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.

- D0 N0T connect 3-phase loads to the generator.
- DO NOT overload the generator.
- Use only a high quality, insulated, compatible (3-wire or 4-wire) grounded cord set rated equal to or greater (volts and amps) than the receptacle plugging into.

#### **A WARNING**

Always remember to plug your appliances directly into the generator and do not plug the generator power cord into any electrical outlet or connect to the circuit breaker panel in your home. Connecting a generator to your home's electric utility company's power lines, or to another power source, called 'backfeeding' is a dangerous practice that is illegal in many states and municipalities.

This action if done incorrectly could damage your generator, appliances and could cause serious injury or death to you or a utility worker when attempting to restore power during an outage occurrence in the neighborhood who may then unexpectedly encounter high voltage on the utility line and suffer a fatal shock.

Whether injuries occur or not, if installed incorrectly and not to applicable laws and codes, you may be subject to fines or the utility company may disconnect your home power should this practice be found in your home.

If the generator will be connected to a building electrical system, those connections must isolate the generator power from the utility power. You are responsible for ensuring your generator's electricity does not backfeed into the electric utility power lines. These connections must comply with all applicable laws and codes – Consult your local utility company or a qualified electrician to properly install this connection.

#### **Do Not Overload Generator**

#### Capacity

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

- 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.
- 3. 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. Make sure all circuit breakers are set to the run position.
- 4. Plug in and turn on the first item. It is best to attach the item with the largest load first.
- 5. Allow the engine to stabilize.
- 6. Plug in and turn on the next item.
- 7. Allow the engine to stabilize.
- 8. Repeat steps 5-6 for each additional item.

#### NOTICE

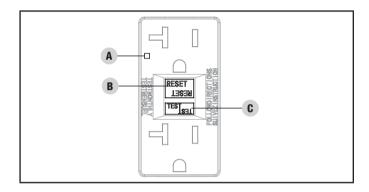
Never exceed the specified capacity when adding loads to the generator.

#### **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 it 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.



#### NOTICE

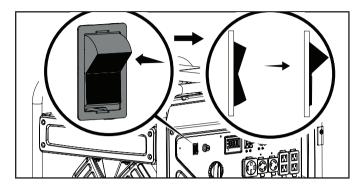
In any electrical application, some current will flow through the protective ground conductor to the ground, this is called leakage current. It takes 4 mA (0.004 A) and higher of leakage current from the hot wire to the ground to cause a GFCI to trip. On circuits protected by GFCI's, leakage current can cause unnecessary and intermittent tripping.

Some stationary motors, such as a bathroom vent fan, fluorescent lighting fixtures or some refrigerators, may produce enough leakage to cause nuisance tripping. To avoid nuisance tripping, a GFCI should not supply:

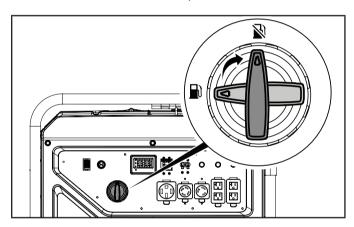
- Fluorescent or other types of electric-discharge lighting fixtures.
- Permanently installed electric motors, like air conditioners, furnaces or refrigerators.

#### **Stopping the Engine**

- Turn off and unplug all connected electrical 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 ignition switch to the "OFF" position.



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



**Important:** Always ensure that the fuel dial and the ignition switch are in the "OFF" position when the generator is not in use.

#### 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.

#### **Moving the Generator**

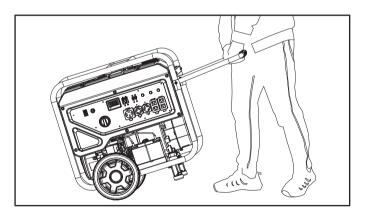
#### **A** CAUTION

- NEVER lift or carry the generator using the folding handle.
- NEVER tilt sideways while moving the generator.
- 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).

#### **A WARNING**

The folding handle is not long enough to hold and walk with a full stride when moving the generator. Always side step as you walk to avoid injury to your heels and/or feet. Failure to follow these instructions could result in personal injury or damage to the generator.

- 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.



#### **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.

#### **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.

#### **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.

#### NOTICE

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.

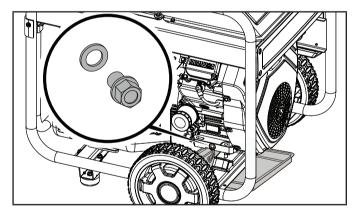
- 1. Use a damp cloth to clean exterior surfaces of the generator.
- 2. Use a soft bristle brush to remove dirt and oil.
- 3. Use an air compressor (25 PSI) to clear dirt and debris from the generator.
- 4. Inspect all air vents and cooling slots to ensure that they are clean and unobstructed.

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

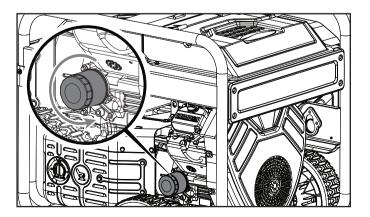
#### **Changing Engine Oil and Filter**

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

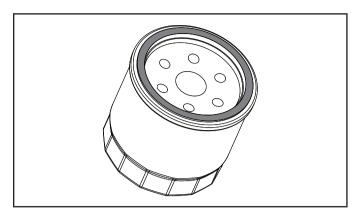
- 1. Remove the oil drain bolt.
- 2. Allow the oil to drain completely into an appropriate container.



- 3. Replace the oil drain bolt.
- 4. Remove oil filter by turning counterclockwise.



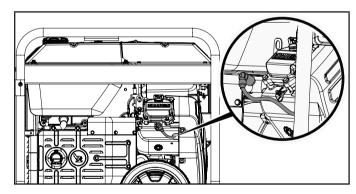
5. Apply a light coat of clean oil onto the gasket of new oil filter.



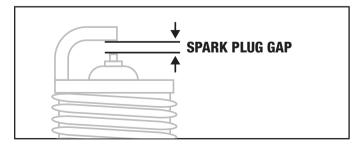
- 6. Install new oil filter by turning clockwise by hand until gasket contacts the engine block. Then apply additional 3/4 turn.
- Add oil according to Add Engine Oil in Assembly section.
   DO NOT OVERFILL. Oil not included for routine maintenance.
- Dispose of used oil and filter at an approved waste management facility.

#### **Cleaning and Adjusting the Spark Plugs**

- 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).

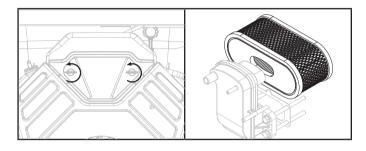


5. Refer to the spark plug types in *Specifications* when replacing the plug.

- 6. Firmly re-install the plug.
- 7. Attach the spark plug cable to the spark plug.
- 8. Repeat Steps 1-7 for spark plug on other side of engine.

#### **Cleaning the Air Filter**

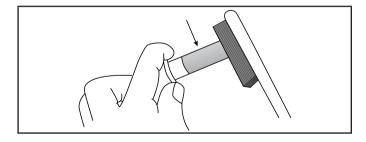
- 1. Open engine access cover.
- 2. Remove the air filter cover by turning the two fasteners ¼ turn counterclockwise.
- 3. Pull the air filter straight out away from engine.



- 4. Install new air filter.
- 5. Replace air filter cover and turn the two fasteners ¼ turn clockwise.
- 6. Close engine access cover.

#### **Cleaning the Spark Arrestor**

- Allow the engine to cool completely before servicing the spark arrestor.
- 2. Remove the two screws 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.



- 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**

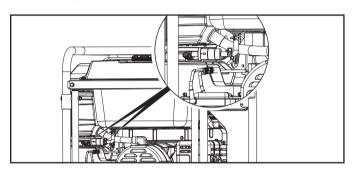
Failure to clean the spark arrestor will result in poor engine performance.

#### NOTICE

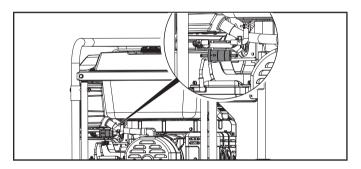
Federal and local laws and administrative requirements indicate when and where spark arrestors are required. When ordered, spark arrestors are required for operation of this generator in National Forest lands. In California, this generator must not be used on any forest-covered land, brush-covered land,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

#### **Replacing Fuel Filter**

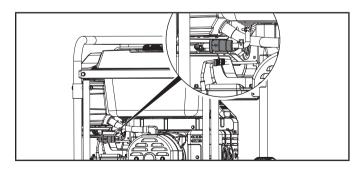
1. Move clips on each side of fuel filter.



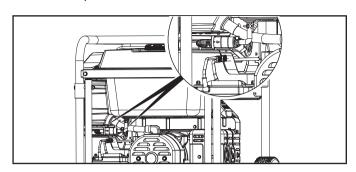
2. Pull fuel hose off each end of fuel filter.



3. Push fuel hose on each end of new filter.



4. Return clips to end of fuel hose.



#### **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.

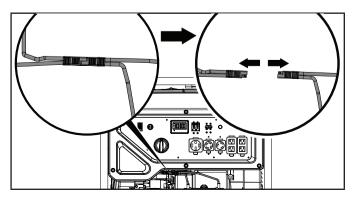
#### **Generator Battery**

Your generator is equipped with an automatic battery charging circuit that charges the battery while the engine is running. The battery will maintain a proper charge if the unit is used on a regular basis (about once every two weeks). If it is used less frequently, the battery should be connected to a trickle charger or battery maintainer (not included) to keep the battery properly charged.

Maximum charging rate should not exceed 1.5 amps. Follow the instructions included with the battery charger. The battery should be fully charged at least once per month. If the battery is not able to start the engine, it can be started by manually pulling the engine recoil cord. If the battery voltage is extremely low, the charging circuit may not be able to re-charge the battery. In this case, the battery must be connected to a standard automotive style battery charger for re-charging before it can be used.

#### **Disconnect the Battery**

1. Pull two halves of battery connector apart.



#### **Charge the Battery**

For a generator equipped with batteries for electric starting, proper battery maintenance and storage should be followed. A trickle charger or battery maintainer should be used to charge the battery while the generator is in storage. Maximum charging rate should not exceed 1.5 amps. Follow the instructions included with the trickle charger or battery maintainer. The battery should be fully charged at least once per month.

#### **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 and oil filter

#### **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 and oil filter
- ☐ Clean/adjust spark plug
- Clean spark arrestor
- ☐ Replace fuel 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 WARNING**

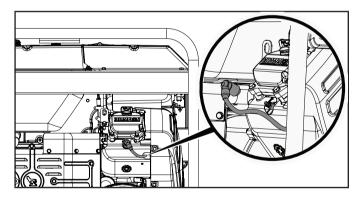
To avoid accidental or unintended ignition of your generator during periods of storage, the following precautions should be followed:

 When storing the generator make sure the fuel dial is set to the "OFF" position.

#### **Short Term Storage (30 days – 1 year)**

Ethanol blended 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 dial to the "ON" position.
- 4. Start and run the generator for 10 minutes so the treated gasoline cycles through the fuel system.
- 5. Press ignition switch to the "OFF" position.
- 6. Turn fuel dial 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 each of the cylinders.

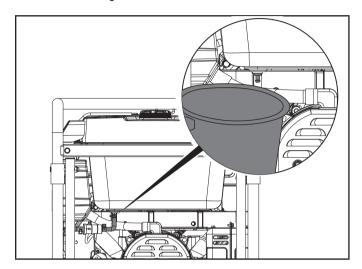


- 8. Install the spark plug on each cylinder but DO NOT install spark plug cap.
- With fuel dial in the "OFF" position, crank engine for 2 seconds using ignition switch.
- 10. Install spark plug cap on each cylinder.
- 11. Clean the generator according to Cleaning the Generator.
- 12. Store the generator in a cool, dry place out of direct sunlight.

#### **Long Term Storage (over 1 year)**

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

- 1. The generator is to be OFF and all appliances disconnected.
- Place appropriate container under the fuel tank drain fitting. Move clip on fuel line connected to fuel tank. Pull fuel line off fuel tank fitting to allow fuel to drain into container.



- When gasoline stops flowing from the fuel tank, return fuel hose and clip to fuel tank fitting. Properly dispose of the drained gasoline according to local regulations or guidelines.
- 4. Follow steps 7-12 according to Short Term Storage.

#### **Removing from Storage**

#### NOTICE

If the generator has been improperly stored for a period longer than 30 days with ethanol blended gasoline in the gasoline tank, all fuel must be drained.

If the gasoline tank was properly emptied of all ethanol blended gasoline prior to the generator being stored, follow the below steps when removing from storage.

- 1. Be sure the fuel dial is in the "OFF" position.
- 2. Add gasoline to the generator according to Add Fuel.
- 3. Turn the fuel dial to the "ON" position.
- 4. After 5 minutes check for any leaking gasoline. If no gasoline leaks are found, turn the fuel dial to the "OFF" position.
- 5. Check engine oil level and add clean, fresh oil if needed. See *Oil Specifications* for proper oil type.
- Check air filter of any obstructions such as bugs or cobwebs.
   If necessary, clean air filter according to Cleaning the Air Filter.
- 7. Start the generator according to Starting the Engine.

#### **SPECIFICATIONS**

#### **Generator Specifications**

Generator Model	201160
Start Type	Electric
Watts (Starting/Running)	15000/12000
AC Volts	120/240
AC Amps @ 120V (Running)	100
AC Amps @ 120/240V (Running)	50
Volts DC	
Frequency	60 Hz
Phase	Single
Grounding Type	Neutral Bonded to Frame
Weight	328.7 lb. (149.1 kg)
Length	33 in. (83.9 cm)
Width	33.7 in. (85.6 cm)
Height	

#### **Engine Specifications**

Model	YF2V78FD-SAI
Displacement	717 cc
Type	4-Stroke OHV
Spark Plug	
OEM Type	F6RTC
Replacement Type	NGK BPR6ES or equivalent
Gap	0.028-0.031 in. (0.7-0.8 mm)
Valve	
Intake Clearance	0.005-0.007 in. (0.13-0.17 mm)
Exhaust Clearance	0.005-0.007 in. (0.13-0.17 mm)

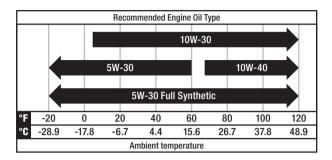
#### NOTICE

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

#### **Oil Specifications**

DO NOT OVERFILL.





#### NOTICE

Temperature will affect engine oil and engine performance. Change the type of engine oil used based on temperature shown in the "Recommended Engine Oil Type" table.

#### **Fuel Specifications**

Use unleaded gasoline with a minimum octane rating of 87 and an ethanol content of 10% or less by volume. DO NOT USE E15 or E85. DO NOT OVERFILL.

#### **Battery Specifications**

Type	Rechargeable,	, Non-Spillable Lead Acid
Volts DC		12
Capacity		33 Ah

#### **Temperature Specifications**

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



An important message about temperature: Your product is designed and rated for continuous operation at ambient temperatures up to 104°F (40°C). When needed, it may be operated at temperatures ranging from 5°F (-15°C) to 122°F (50°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.

#### **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.
Engine will not start.	Fuel dial OFF.	Turn fuel dial ON.
	Old fuel or water in fuel.	Drain fuel and replace with fresh fuel.
	Flooded with fuel.	Let unit stand for 10 mins.
	CO Shield® module has been removed or tampered with.	Re-install module or contact technical support.
	Choke in the wrong position.	Push choke knob in.
Engine starts but runs roughly	Dirty air filter.	Clean or replace air filter.
Engine starts but runs roughly.	Dirty fuel filter.	Replace fuel filter.
	Clogged spark arrestor.	Clean spark arrestor.
Engine will not start electrically.	Generator battery is dead.	Recharge generator battery.
	Out of fuel.	Fill fuel tank.
	Low oil level.	Fill crankcase to the proper level. Place generator on a flat, level surface.
	If equipped, when CO Shield® shutoffs occur due to accumulating carbon monoxide (CO) and if the red LED light blinks on the panel.	Move generator to an open, outdoor area. Point exhaust away from people and buildings. Move to fresh air and get medical help if sick, dizzy, or weak.
Engine shuts down during operation.		Make sure there are no objects creating obstructions within 5 feet of the generator.  Obstructions in the vicinity of the generator may trap carbon monoxide emissions near the generator and cause the engine to shutoff.
		If the generator's exhaust is facing into the wind, the exhaust may be blown back into the generator's operating area, creating an accumulation of CO emissions and triggering an engine shutoff. To avoid an engine shutoff, turn the generator 45° in either direction to allow the exhaust emissions to blow away from the generator. If engine shutoff events continue, readjust and align the exhaust with the wind direction to blow away from the generator.
	If equipped, when CO Shield® shutoffs occur due to system fault and if the yellow LED light blinks on the panel.	Start by confirming yellow LED light blinks when/ if generator shuts off. If CO Shield® continues to sense the fault and shuts off, contact technical support.
	Clogged spark arrestor.	Clean spark arrestor.

Problem	Cause	Solution
Engine starts and shuts off right away.	If equipped, when CO Shield® shutoffs occur due to accumulating carbon monoxide (CO) and if the red LED light blinks on the panel.	Move generator to an open, outdoor area. Point exhaust away from people and buildings. Move to fresh air and get medical help if sick, dizzy, or weak.
		Make sure there are no objects creating obstructions within 5 feet of the generator. Obstructions in the vicinity of the generator may trap carbon monoxide emissions near the generator and cause the engine to shutoff.
		If the generator's exhaust is facing into the wind, the exhaust may be blown back into the generator's operating area, creating an accumulation of CO emissions and triggering an engine shutoff. To avoid an engine shutoff, turn the generator 45° in either direction to allow the exhaust emissions to blow away from the generator. If engine shutoff events continue, readjust and align the exhaust with the wind direction to blow away from the generator.
	If equipped, when CO Shield® shutoffs occur due to system fault and if the yellow LED light blinks on the panel.	Start by confirming yellow LED light blinks when/ if generator shuts off. If CO Shield® continues to sense the fault and shuts off, contact technical support.
Both CO Shield® LEDs not blinking 10 times upon start up.	Starting the generator within 1 minute after being manually shutoff, not a CO shutoff event.	Wait 1 minute before trying to restart the generator. The LEDs should then blink ten (10) times.
Generator cannot supply enough power	Generator is overloaded.	Review load and adjust. See "Connecting Electrical Loads."
or overheating.	Dirty air filter.	Clean or replace air filter.
	Choke in wrong position.	Push choke knob in.
	Poor cord connection.	Check all connections.
	Circuit breaker is open.	Reset circuit breaker. Check all circuit breakers.
ngine is running but no AC output.	Loose wiring.	Inspect and tighten wiring connections.
	GFCI tripped.	Reset GFCI receptacle breakers by first pushing the TEST button then the RESET button until green LED illuminates. Contact the help line.
	Other.	Contact the help line.
	Engine governor defective.	Contact the help line.
Engine hunts or falters.	Dirty fuel filter.	Replace fuel filter.
	Choke in wrong position.	Push choke knob in.
	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
Toll Free 1-877-338-0999
support@championpowerequipment.com

#### **WARRANTY\***

CHAMPION POWER EQUIPMENT 3 YEAR LIMITED WARRANTY

#### **Warranty Qualifications**

To register your product for warranty and FREE lifetime call center technical support please visit:

https://www.championpowerequipment.com/register

To complete registration you will need to include a copy of the purchase receipt as proof of original purchase. Proof of purchase is required for warranty service. Please register within ten (10) days from date of purchase.

#### **Repair/Replacement Warranty**

CPE warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for a period of three years (parts and labor) from the original date of purchase and 270 days (parts and labor) for commercial and industrial use. Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.

# Do Not Return The Unit To The Place Of Purchase

Contact CPE's Technical Service and CPE will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, CPE will, at its option, authorize evaluation, repair or replacement of the defective part or component at a CPE Service Center. CPE will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

#### **Warranty Exclusions**

This warranty does not cover the following repairs and equipment:

#### **Normal Wear**

Products with mechanical and electrical components need periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

#### Installation. Use and Maintenance

This warranty will not apply to parts and/or labor if the product is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the product's limits, modified, installed improperly or connected incorrectly to any electrical component. Normal maintenance is not covered by this warranty and is not required to be performed at a facility or by a person authorized by CPE.

#### **Other Exclusions**

This warranty excludes:

- Cosmetic defects such as paint, decals, etc.
- Wear items such as filter elements, o-rings, etc.
- Accessory parts such as starting batteries, and storage covers.
- Failures due to acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not original Champion Power Equipment parts.

When applicable, this warranty does not apply to products used for prime power in place of a utility.

#### Limits of Implied Warranty and Consequential Damage

Champion Power Equipment disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this product. THIS WARRANTY AND THE ATTACHED U.S. EPA and/or CARB EMISSION CONTROL SYSTEM WARRANTIES (WHEN APPLICABLE) ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

A unit provided as an exchange will be subject to the warranty of the original unit. The length of the warranty governing the exchanged unit will remain calculated by reference to the purchase date of the original unit.

This warranty gives you certain legal rights which may change from state to state or province to province. Your state or province may also have other rights you may be entitled to that are not listed within this warranty.

#### **Contact Information**

#### **Address**

Champion Power Equipment, Inc. 12039 Smith Ave. Santa Fe Springs, CA 90670 USA www.championpowerequipment.com

#### **Customer Service**

Toll Free: 1-877-338-0999

info@championpowerequipment.com

Fax no.: 1-562-236-9429

**Technical Service** 

Toll Free: 1-877-338-0999

tech@championpowerequipment.com

● EMERGENCY 24 HOUR SUPPORT: 1-562-204-1188

# CHAMPION POWER EQUIPMENT, INC. (CPE) AND THE UNITED STATES ENVIRONMENT PROTECTION AGENCY (U.S. EPA) EMISSION CONTROL SYSTEM WARRANTY

Your Champion Power Equipment (CPE) engine complies with U.S. EPA emission regulations.

#### YOUR WARRANTY RIGHTS AND OBLIGATIONS:

The US EPA and CPE are pleased to explain the Federal Emission Control Systems Warranty on your 2022 small off-road engine (SORE) and engine powered equipment. New engines and equipment must be designed, built and equipped, at the time of sale, to meet U.S. EPA regulations for small off-road engines (SORE). CPE warrants the emission control system on your small off-road engine (SORE) and equipment for the period of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your equipment.

Your emission control system may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter and fuel lines. Also included may be hoses, belts, connectors and other emission related assemblies. Where a warrantable condition exits, CPE will repair your small off-road engine (SORE) at no cost to you including diagnosis, parts and labor.

#### MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE:

This emission control system is warranted for two years, subject to provisions set forth below. If, during the warranty period, an emission related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by CPE.

#### **OWNER WARRANTY RESPONSIBILITIES:**

As the small off-road engine (SORE) owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. CPE recommends that you retain all your receipts covering maintenance on your small off-road engine (SORE), but CPE cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine (SORE) owner, you should however be aware that CPE may deny you warranty coverage if your small, off-road engine (SORE) or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine (SORE) to an Authorized CPE service outlet or alternate service outlet as described in (3)(f.) below, CPE dealer or CPE, Santa Fe Springs, Ca. as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact:

Champion Power Equipment, Inc.
Customer Service
12039 Smith Ave.
Santa Fe Springs, CA 90670
1-877-338-0999
tech@championpowerequipment.com

#### **EMISSION CONTROL SYSTEM WARRANTY**

The following are specific provisions relative to your Emission Control System (ECS) Warranty Coverage.

 APPLICABILITY: This warranty shall apply to 1997 and later model year small off-road engines (SORE). The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.

#### 2. GENERAL EMISSIONS WARRANTY COVERAGE

CPE warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that each of its small off-road engines (SORE) is:

- 2a. Designed, built and equipped so as to conform to U.S. EPA emissions standards for spark-ignited engines at or below 19 kilowatts.
- 2b. Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to the part as described in the engine manufacturer's application for certification for a period of two years.

#### 3. THE WARRANTY ON EMISSION-RELATED PARTS WILL BE INTERPRETED AS FOLLOWS:

- 3a. Any warranted part that is not scheduled for replacement as required maintenance in the Owners Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by CPE according to Subsection "d" below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.
- 3b. Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owners Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.
- 3c. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by CPE according to Subsection "d" below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.
- 3d. Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a CPE Authorized Service Outlet.
- 3e. The owner shall not be charged for diagnostic labor which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a CPE Authorized Service Outlet.
- 3f. CPE shall pay for covered emissions warranty repairs at non-authorized service outlets under the following circumstances:
  - i. The service is required in a population center with a population over 100,000 according to U.S. Census 2000 without a CPE Authorized Service Outlet AND
  - ii. The service is required more than 100 miles from a CPE Authorized Service Outlet. The 100 mile limitation does not apply in the following states: Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nebraska, Nevada, New Mexico, Oregon, Texas, Utah and Wyoming.
- 3g. CPE shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.
- 3h. Throughout the ECS Warranty Period, CPE shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.
- 3i. Any CPE Authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce CPE's warranty obligation.
- 3j. Unapproved add-on or modified parts may not be used to modify or repair a CPE engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. CPE shall not be liable hereunder for failures of any warranted parts of a CPE engine caused by the use of such an unapproved add-on or modified part.

# EMISSION-RELATED PARTS INCLUDE THE FOLLOWING: (using those portions of the list applicable to the engine)

Systems covered by this warranty	Parts Description	
Fuel Metering System	Fuel regulator, Carburetor and internal parts	
Air Induction System	Air cleaner, Intake manifold	
Ignition System	Spark plug and parts, Magneto ignition system	
Exhaust System	Exhaust manifold, catalytic converter	
Miscellaneous Parts	Tubing, Fittings, Seals, Gaskets, and Clamps associated with these listed systems.	
Evaporative Emissions	Fuel Tank, Fuel Cap, Fuel Line (for liquid fuel and fuel vapors), Fuel Line Fittings, Clamps, Pressure Relief Valves, Control Valves, Control Solenoids, Electronic Controls, Vacuum Control Diaphragms, Control Cables, Control Linkages, Purge Valves, Gaskets, Vapor Hoses, Liquid/Vapor Separator, Carbon Canister, Canister Mounting Brackets, Carburetor Purge Port Connector	

#### TO OBTAIN WARRANTY SERVICE:

You must take your CPE engine or the product on which it is installed, along with your warranty registration card or other proof of original purchase date, at your expense, to any Champion Power Equipment dealer who is authorized by Champion Power Equipment, Inc. to sell and service that CPE product during his normal business hours. Alternate service locations defined in Section (3)(f.) above must be approved by CPE prior to service. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the engine was not properly maintained and used.

If you have any questions regarding your warranty rights and responsibilities, or to obtain warranty service, please write or call Customer Service at Champion Power Equipment, Inc.

**Champion Power Equipment, Inc.** 

12039 Smith Ave. Santa Fe Springs, CA 90670 1-877-338-0999

Attn.: Customer Service tech@championpowerequipment.com