9000 Peak Watts/7000 Running Watts (Gasoline)
8100 Peak Watts/6300 Running Watts (LPG)
Electric Start
DUAL FUEL GENERATOR
AN IMPORTANT MESSAGE ABOUT TEMPERATURE:
Your Champion Power Equipment product is designed and rated for continuous operation at ambient temperatures up to 40°C (104°F). When your product is needed your product may be operated at temperatures ranging from -15°C (5°F) to 50°C (122°F) for short periods. If the product is 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 other vents.

For residents of California:
WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects and other reproductive harm.

WARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer and birth defects and other reproductive harm.

*We are always working to improve our products. Therefore, the enclosed product may differ slightly from the image on the cover.
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9000 Peak Watts/7000 Running Watts (Gasoline)
8100 Peak Watts/6300 Running Watts (LPG)
Electric Start

DUAL FUEL GENERATOR
Introduction
Congratulations on your purchase of a Champion Power Equipment generator. CPE designs and builds generators to strict specifications. With proper use and maintenance, this generator will bring years of satisfying service.

Portable Power Generator
This unit is a gasoline or LPG engine driven, alternating current (AC) generator. It is designed to supply electrical power for lighting, appliances, tools and similar equipment.

Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty inquiries.

Accessories
Champion Power Equipment manufactures and sells accessories designed to help you get the most from your purchase. To find out more about our covers and power cables, please visit our web site at:

www.championpowerequipment.com

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

Champion Power Equipment Support
1-877-338-0999

Model Number
100155

Serial Number

Date of Purchase

Purchase Location

For Oil Type see 'Add Engine Oil' section. For Fuel Type see 'Add Fuel' section.
This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment. Follow all safety messages to avoid or reduce the risk of serious injury or death.

**DANGER**

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

**CAUTION**

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

**WARNING**

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

**NOTE**

If you have questions regarding your generator, we can help. Please call our help line at 1-877-338-0999.
SAFETY RULES

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

⚠️ WARNING
The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

⚠️ DANGER
Generator produces powerful voltage. DO NOT touch bare wires or receptacles. DO NOT use electrical cords that are worn, damaged or frayed. 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. Use approved transfer equipment to isolate generator from your electric utility and Notify your utility company before connecting your generator to your power system.

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

⚠️ DANGER
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. Operate equipment with guards in place. DO NOT wear loose-fitting clothing, dangling drawstrings or items that could become caught.

⚠️ WARNING
Sparks 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. DO NOT check for spark with the plug removed. Use only approved spark plug testers.

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

Operation of this equipment may create sparks that can start fires around dry vegetation.

A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

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.
**SAFETY RULES**

Fuel Safety

**DANGER**

**GASOLINE, GASOLINE VAPORS AND LIQUID PETROLEUM GAS (LPG) ARE HIGHLY FLAMMABLE AND EXPLOSIVE.**

Fire or explosion can cause severe burns or death. Unintentional startup can result in entanglement, traumatic amputation or laceration.

**Gasoline and Gasoline Vapors (Gas):**

- **GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE.**
- Gasoline can cause a fire or explosion if ignited.
- Gasoline is a liquid fuel but its vapors can ignite.
- Gasoline is a skin irritant and needs to be cleaned up immediately if spilled on skin or clothes.
- Gas has a distinctive odor, this will help detect potential leaks quickly.
- In any gas fire, flames should not be extinguished unless by doing so the fuel supply valve can be turned OFF. This is because if a fire is extinguished and a supply of fuel is not turned OFF, then an explosion hazard could be created.
- Gas expands or contracts with ambient temperatures. Never fill the gas tank to full capacity, as gas needs room to expand if temperatures rise.

**Liquefied Petroleum Gas (LPG):**

- **LPG IS HIGHLY FLAMMABLE AND EXPLOSIVE.**
- Flammable gas under pressure can cause a fire or explosion if ignited.
- LPG is heavier than air and can settle in low places while dissipating.
- LPG has a distinctive odor added to help detect potential leaks quickly.
- In any petroleum gas fire, flames should not be extinguished unless by doing so the fuel supply valve can be turned OFF. This is because if a fire is extinguished and a supply of fuel is not turned OFF, then an explosion hazard could be created.
- When exchanging LPG cylinders, be sure the cylinder valve is of the same type.
- Always keep the LPG cylinder in an upright position.
- LPG will burn skin if it comes in contact with it. Keep any and all LPG away from skin at all times.

When adding or removing Gasoline:

Turn the generator off and let it cool for at least two minutes before removing the fuel cap. Loosen the cap slowly to relieve pressure in the tank.

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

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

DO NOT overfill the fuel tank.

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

DO NOT light or smoke cigarettes.

When starting the generator:

DO NOT attempt to start a damaged generator.

Make certain that the gas cap, air filter, spark plug, fuel lines and exhaust system are properly in place.

Allow spilled fuel 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 shutoff valve is in the off position and the fuel tank is empty.

Make certain that a LPG cylinder is not attached to generator and is securely stowed away.

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, gas or LPG cylinder near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions.

**WARNING**

Never use a gas container, LPG connector hose, gas tank, LPG cylinder or any other fuel item that is damaged or appears damaged.
Read this owner’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) **Gas Fuel Tank** – 6.1 gallon (23 L) capacity fuel tank.
(2) **Choke** – Used to start the engine.
(3) **Air Cleaner** – Protects the engine by filtering dust and debris from the intake air.
(4) **Recoil Starter** – Used to manually start the engine.
(5) **Quick Drain Tube** – Used to easily and quickly drain oil from the engine.
(6) **LPG Hose Connector**
(7) **Oil Filler Cap** – Check and fill engine oil level.
(8) **Battery** – Used to start the engine electrically.
(9) **Power Panel** – See “Power Panel” section.
(10) **Fuel Selector Switch** – Used to select fuel source.
(1) **Fuel Selector Switch** – Used to select and turn on gasoline or LPG fuel source.

(2) **Ignition Switch** – Used to start or stop the generator.

(3) **Intelligauge** – Three mode digital meter for displaying running hours, voltage and hertz.

(4) **Battery Switch** – Enables/disables starting electrically.

(5) **12V DC Input**

(6) **LPG Hose Connector** – Used to connect LPG hose to generator.

(7) **Ground Terminal** – Consult an electrician for local grounding regulations.

(8) **120 Volt AC, 30 Amp Twist-Lock Receptacle** (NEMA L5-30R) – May be used to supply electrical power for the operation of 120 Volt AC, single phase 60 Hz electrical loads.

(9) **120/240 Volt AC, 30 Amp Twist-Lock Receptacle** (NEMA L14-30R) – May be used to supply electrical power for the operation of 120 and/or 240 Volt AC, single phase 60 Hz electrical loads.

(10) **120 Volt AC, 20 Amp Duplex (2)** (GFCI 5-20R) – May be used to supply electrical power for the operation of 120 Volt AC, single phase 60 Hz electrical loads.

(11) **Circuit Breakers**
Parts Included

Your 100155 dual fuel generator ships with the following parts:

**Wheel Kit**
- 9.5 in. (24.1 cm) Wheel ........................................ 2
- Flange Bolt (M10x120 for Wheel) ................................ 2
- Bushing ..................................................................... 2
- Flat Washer ø10 .......................................................... 2
- Lock Nut (M10) ............................................................ 2
- Support Leg w/Vibration Mounts ................................. 1
- Flange Bolt (M8x16 for Support Leg) .......................... 2
- Flange Lock Nut (M8) .................................................. 2

**Other**
- Oil ........................................................................... 1.2 qt. (1.1 L)
- LPG Hose With Regulator 3.3 ft. (1 m) ...................... 1
- Generator Cord 25 ft. (7.6 m) .................................... 1
- Smart Charger ............................................................ 1
- Oil Funnel .................................................................. 1
- Flange Bolt (M5x10 for Battery Terminals) ............... 2
- Flange Nut (M5 for Battery Terminals) ...................... 2
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 help line at 1-877-338-0999. Please have your serial number and model number available.

Remove the Generator from the Shipping Carton
1. Set the shipping carton on a solid, flat surface.
2. Remove everything from the carton except the generator.
3. Carefully cut each corner of the box from top to bottom. Fold each side flat on the ground to provide a surface area to install the wheel kit and support leg.

Install the Wheel Kit

1. Before adding fuel and oil, tip the generator on it’s side.
2. Slide the M10x120 wheel bolt through the flat washer ø10, bushing and wheel.
3. Slide the bolt through the mount point on the frame.
4. Fasten securely with the M10 lock nut.
5. Repeat steps 2-4 to attach the second wheel.

Install the Support Leg
1. Attach the support leg to the generator frame with flange bolt (M8x16) and flange lock nuts (M8).
2. Tip the generator slowly so that it rests on the wheels and support leg.

Connect the Battery
1. Remove the protective cover from the red (+) lead on the battery.
2. Attach the red (+) lead to the red (+) terminal on the battery with the flange bolt (M5x10) and secure with the flange nut (M5).
3. Repeat steps 1-2 for the black (–) battery lead.

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

You will need the following tools to install the wheels:
• 17 mm wrench OR adjustable wrench (not included)
• Socket wrench with a 16 mm socket (not included)
• Pliers (not included)
Add Engine Oil

1. 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 failure to follow these instructions will void your warranty.

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

3. NOTE
   The recommended oil type is 10W-30 automotive oil.

1. Place the generator on a flat, level surface.
2. Remove oil fill cap/dipstick to add oil.
3. Add up to 1.2 qt. (1.1 L) of oil (included) and replace oil fill cap/dipstick. DO NOT OVERFILL.
4. Check engine oil level daily and add as needed.

5. NOTE
   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.

Add Engine Oil Cont’d.

1. NOTE
   Check oil often during the break-in period. Refer to the Maintenance section for recommended service intervals.

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

3. NOTE
   We consider the first 5 hours of run time to be 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 and help seat piston rings. After the 5 hour break-in period, change the oil.

4. NOTE
   Weather will affect engine oil and engine performance. Change the type of engine oil used based on weather conditions to suit the engine needs.

5. NOTE
   Synthetic oil may be used after the 5 hour initial break-in period. Using synthetic oil does not increase the recommended oil change interval.
Add Fuel (Gasoline)

1. Use clean, fresh, regular unleaded fuel with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.
2. DO NOT mix oil with fuel.
3. Clean the area around the fuel cap.
4. Remove the fuel cap.
5. Slowly add fuel to the tank. DO NOT OVERFILL. Fuel can expand after filling. A minimum of $\frac{1}{4}$ in. (6.4 mm) of space left in the tank is required for fuel expansion, more than $\frac{3}{4}$ in. (6.4 mm) is recommended. Fuel can be forced out of the tank as a result of expansion if it is overfilled, and can affect the stable running condition of the product. When filling the tank, it is recommended to leave enough space for the fuel to expand.

6. Screw on the fuel cap and wipe away any spilled fuel.

**CAUTION**

Use regular unleaded gasoline with a minimum octane rating of 85.

Do not mix oil and gasoline. Fill tank to approximately $\frac{1}{4}$ in. (6.4 mm) below the top of the tank to allow for fuel expansion. DO NOT pump gas directly into the generator at the gas station. Use an approved container to transfer the fuel to the generator. DO NOT fill fuel tank indoors. DO NOT fill fuel tank when the engine is running or hot. DO NOT overfill the fuel tank. DO NOT light cigarettes or smoke when filling the fuel tank.

**WARNING**

Pouring fuel too fast through the fuel screen may result in blow back of fuel at the operator while filling.

**NOTE**

Our engines work well with 10% or less ethanol blend fuels. When using blended fuels 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.
- With gravity-fed fuel supplies, this compromised fuel can be drawn into the carburetor and cause damage to the engine and/or potential hazards.
- There are only a few suppliers of fuel stabilizer that are formulated to work with ethanol blend fuels.
- Any damages or hazards caused by using improper fuel, improperly stored fuel, and/or improperly formulated stabilizers, are not covered by manufacture’s warranty.

It is advisable to always shut off the fuel supply, run the engine to fuel starvation and drain the tank when the equipment is not in use for more than 30 days.
Connecting Liquid Petroleum Gas (LPG) Cylinder

1. Make sure the LPG fuel valve on the generator is in the off position.
2. Attach the LPG hose (included) to the LPG hose connector on the side of the generator and tighten with a 19 mm or adjustable wrench.
   **Important:** DO NOT use tape or any other type of sealant to seal LPG hose connection.
3. Remove the safety plug or cap from the cylinder valve.
4. Attach the other end of the hose to the LPG connector on the cylinder and hand tighten.
5. Check all connections for leaks by wetting the fittings with a solution of soap and water. Bubbles which appear or bubbles which grow indicate that a leak exists. If a leak exists at a fitting then turn off the gas valve at the tank and tighten the fitting. Turn the gas back on and recheck the fitting with the soap and water solution. If the leak continues or if the leak is not at a fitting then do not use the generator and contact customer service.

**NOTE**
- Use only standard 20 or 30 pound capacity LP tanks with Type 1, right hand Acme threads.
- Verify the requalification date on the tank has not expired.
- All new cylinders must be purged of air and moisture prior to filling. Used cylinders that have not been plugged or kept closed must also be purged.
- The purging process should be done by a LPG supplier. (Cylinders from an exchange supplier should have been purged and filled properly already).
- Always position the cylinder so the connection between the valve and the gas inlet won’t cause sharp bends or kinks in the hose.

Connecting LPG Cylinder Cont’d.

**CAUTION**
Do not allow children to tamper or play with the cylinder or hose connections.

**CAUTION**
Use approved LPG cylinders equipped with an OPD (overfilling prevention device) valve. Always keep the cylinder in a vertical position with the valve on top and installed at ground level on a flat surface. Cylinders must not be installed near any heat source and should not be exposed to sun, rain, and dust. When transporting and storing, turn off the cylinder valve and fuel valve, and disconnect the cylinder. Plug the outlet, usually by a plastic protective cap, if one is available. Keep cylinders away from heat and ventilated when in a vehicle.

**WARNING**
If there is a strong smell of gas: Close off the gas supply at the cylinder. Use soapy water, which will produce a large bubble at the point of any leak, to check the hose, and connections on the cylinder valve and the generator. Do not smoke or light a cigarette, or check for leaks using a match, open flame source or lighter. Contact a qualified technician to inspect and repair the LPG system if a leak is found, before using the generator.

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

**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 on the power panel. 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.
**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.

**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.

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

**Grounding**
The generator system ground connects the frame to the ground terminals on the power panel. The system ground is connected to the AC neutral wire.

**Surge Protection**

**CAUTION**
Voltage fluctuation may impair the proper functioning of sensitive electronic equipment.

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.

1. **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.
Fuel Selector Switch

The fuel selector switch on the front panel of the generator is designed specifically to choose between the fuel source desired, LPG or Gasoline. To select a fuel source simply slide the switch cover to either the right or left, and this will uncover the fuel valve of the fuel selected. The LPG fuel valve (A) is to the left of the switch cover. The gasoline fuel valve (B) is to the right of the switch cover.

Once a fuel source has been selected, the user must turn the fuel valve to the vertical position to open the fuel valve.

To turn a fuel valve to the off position the valve must be in the horizontal position.

**NOTE**

The fuel selector switch cover is specifically designed not to slide to either side while a specific fuel has been selected and the valve is in the “ON” position. Only when the fuel valves are in the “OFF” position can the cover slide side to side.

Starting the Engine in ambient > 15°C (59°F)

**Gasoline**

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 with electrical devices plugged in or turned on.
3. Turn the gasoline fuel valve to the “ON” position.
4. Move the choke lever to the “100% CHOKE” detent position.
   a. For restarting a warm engine, move the choke lever to the “75% CHOKE” detent position.
5. Push the battery switch to the “ON” position.
6. Push the ignition switch to the “ON” position.
7. ELECTRIC START: 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.
8. RECOIL START: Pull the starter cord slowly until resistance is felt and then pull rapidly.
9. Do not over-choke. As soon as engine starts, gradually move the choke lever to the “RUN” position over a 2-5 second duration.

**NOTE**

Keep choke lever in “Choke” position for only 1 pull of the recoil starter. After first pull, move choke lever to the “Run” position for up to the next 3 pulls of the recoil starter. Too much choke leads to sparkplug fouling/engine flooding due to the lack of incoming air. This will cause the engine not to start.

**NOTE**

For restarts with hot engine in hot ambient > 30°C (86°F) Keep choke lever in “75% Choke” detent position for only 1 pull of the recoil starter. After first pull, move choke lever to the “Run” position for up to the next 3 pulls of the recoil starter. Too much choke leads to sparkplug fouling/engine flooding due to the lack of incoming air. This will cause the engine not to start.

**NOTE**

For gasoline starting in in cold ambient < 15°C (59°F) the choke must be in the 100% “CHOKE” detent position for both electric and recoil start procedures. Do not over-choke. As soon as engine starts, gradually move the choke lever to the “RUN” position over a 5-20 second duration.
OPERATION

LPG

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 with electrical devices plugged in or turned on.
3. Fully open the LPG cylinder fuel knob.
4. Turn the LPG fuel valve to the “ON” position.
5. Push the battery switch to the “ON” position.
6. Push the ignition switch to the “ON” position.
7. ELECTRIC START: Move the choke lever to the “75% Choke” detent position.
   a. For restarting a warm engine, move the choke lever to the “75% CHoke” detent position.
8. 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.
9. Do not over-choke. As soon as engine starts, gradually move the choke lever to the “RUN” position over a 2-5 second duration.
10. RECOIL START: Move the choke lever to the “100% Choke” detent position.
    a. For restarting a warm engine, move the choke lever to the “100% CHoke” detent position.
11. PULL-TO-PRIME: Pull the starter cord slowly until resistance is felt and then pull rapidly. Pull with “100% Choke” 1-2 times until you feel a few combustion pulses that indicates that the engine momentarily started.
12. Move the choke lever to the “RUN” position.
13. Pull the starter cord slowly until resistance is felt and then pull rapidly.
14. If engine fails to start in 1-pull with choke in the “RUN”, then move choke to “100% Choke” and repeat the PULL-TO-PRIME step.

NOTE

Observing frost on LPG containers and regulators is common during operation and normally is not an indication of a problem. As LPG vaporizes and travels from the tank to the generator engine it expands. The amount of frost that forms can be affected by the size of the container, the amount of fuel being used, the humidity of the air and other operating conditions. In unusual situations this frost may eventually restrict the flow of gas to the generator resulting in deteriorating performance. For example, if the tank temperature is reduced to a very low level then the rate at which the LPG vaporizes is also reduced and may not provide sufficient fuel flow to the engine. This is not an indication of a problem with the generator but only a problem with the flow of gas from the LPG container. If generator performance seems to be deteriorating at the same time that ice formation is observed on tank valve, hose or regulator then some actions may be taken to eliminate this symptom. In these rare situations it can be helpful to reduce or eliminate the cold fuel system effects by doing one of the following:
- Exchanging fuel tanks to allow the first tank to warm up, repeating as necessary
- Placing the LPG container at the end of the generator near the handle, where engine fan air flows out from the generator. This air is slightly heated by flowing over the engine. The container should not be placed in the path of the muffler outlet.
- The container can be temporarily warmed by pouring warm water over the top of the tank.

NOTE

For LPG starting in cold ambient <15°C (59°F) Move the choke lever to the “75% Choke” position for electric starting and “100% Choke” for recoil start. For electric start, gradually move the choke lever to the “RUN” position over a 2-10 second duration. To pull to prime for recoil start Pull with “100% Choke” 1-3 times until you feel a few combustion pulses that indicates that the engine momentarily started.
**Stopping the Engine**

1. Turn off and unplug all 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. Turn the Gasoline Fuel Valve to the “OFF” position if operating by gas.
4. Turn the LPG cylinder knob to the “CLOSE” or off position if operating by LPG.
5. Let the engine run until fuel starvation has stopped the engine. This usually takes a few minutes.
6. Press the ignition switch to the “OFF” position.
7. Turn battery switch to the “Off” Position.

**Important:** Always ensure that the Fuel Valve and the Ignition Switch are in the “OFF” position when the engine is not in use.

---

**NOTE**

When turning off the generator after LPG operation, make sure the LPG cylinder knob is in the fully closed position.

**NOTE**

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.

---

**Connecting Electrical Loads**

1. Let the engine stabilize and warm up for a few minutes after starting
2. Plug in and turn on the desired 120/240 Volt AC single phase, 60 Hz electrical loads.
   - DO NOT connect 3-phase loads to the generator.
   - DO NOT connect 50 Hz loads to the generator.
   - DO NOT overload the generator.

**NOTE**

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.

---

**GFCI**

Your generator is equipped with two (2) Ground Fault Circuit Interrupter (GFCI) duplexes. In the event of a ground fault, a GFCI trips automatically to stop the flow of electricity and prevent serious injury. The green indicating light on the receptacle will also turn off. Press the reset button located on the front of the receptacle to restore flow of electricity. (A) The green indicating 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.
2. Press the “Test” button located on the front of the receptacle to trip the device. (A) 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.
3. Press the “Reset” button located on the front of the receptacle to restore the flow of electricity. If the indicator light does not go out and come back on or if the GFCI cannot be reset then it must be replaced.

**WARNING**

For the GFCI receptacles to work properly the neutral wire must be bonded to ground or to the generator frame. Your Champion generator comes with the neutral wire already bonded to the frame. If the bonding wire is removed then the GFCI receptacles will no longer function as designed. If the neutral bonding wire is removed to accommodate a transfer switch installation for connection to a house or building, then the transfer switch must not switch off the neutral connection to ground within the building. Champion Power Equipment recommends that you consult with a licensed, local electrician. Due to the variety of local codes, we cannot specifically advise you regarding modifications to the wiring of your portable generator.
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.
3. Identify the highest starting wattage of all devices identified in step 1. Add this number to the number calculated in step 2. Surge wattage is the extra burst 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:

\[ \text{Volts} \times \text{Amps} = \text{Watts} \]

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 stabilize.
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.

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

Operation at High Altitude

The density of air at high altitude 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 feet of elevation above sea level. This is a natural trend and cannot be changed by adjusting the engine. 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, Champion Power Equipment can provide a high altitude carburetor main jet. The alternative main jet and installation instructions can be obtained by contacting Customer Support. Installation instructions are also available in the Technical Bulletin area of the Champion Power Equipment internet site.

The part number and recommended minimum altitude for the application of the high altitude carburetor main jet is listed in the table below. 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 main jet part number corresponding to the carburetor code found on your particular carburetor.

<table>
<thead>
<tr>
<th>Carburetor Code</th>
<th>Main Jet</th>
<th>Part Number</th>
<th>Altitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>P28-4-Z</td>
<td>Standard</td>
<td>47.131017.21.Z</td>
<td>5500 Feet (1676 Meters)</td>
</tr>
<tr>
<td></td>
<td>Altitude</td>
<td>47.131017.21.01.Z</td>
<td></td>
</tr>
<tr>
<td>P28-4-H</td>
<td>Standard</td>
<td>47.131017.21.H</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Altitude</td>
<td>47.131017.21.01.H</td>
<td></td>
</tr>
<tr>
<td>P28-4-Y</td>
<td>Standard</td>
<td>47.131017.21.Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Altitude</td>
<td>47.131017.21.01.Y</td>
<td></td>
</tr>
</tbody>
</table>

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 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.
**Smart Charger**

The smart charger (included) is a device that is used to charge the generator battery. The smart charger plugs into the generator, into the DC input on the front panel, and then into a household outlet power source. There is a light on the charger. If the battery is in need of a charge or charging then the red light will light up. If the battery is good and not in need of charging or has completed charging then the green light will light up. The smart charger is programmed not to charge or to stop charging when the light is green. This is a safety feature that will help prevent damage to the battery and generator.

**NOTE**

If the battery is completely dead, and won’t hold a charge, then the smart charger can be plugged into a power source to enable power to the choke.

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**NOTE**

**FCC Statement**

1. This battery charger complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This battery charger may not cause harmful interference.(2) This battery charger must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

This battery charger 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 battery charger 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 battery charger does cause harmful interference to radio or television reception, which can be determined by turning the battery charger 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 battery charger and receiver.
- Connect the battery charger into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.
The owner/operator is responsible for all periodic maintenance.

**WARNING**

Never operate a damaged or defective generator.

**WARNING**

Tampering with the factory set governor will void your warranty.

**WARNING**

Improper maintenance will void your warranty.

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**NOTE**

Maintenance, replacement, or repair of emission control devices and systems may be performed by any non-road engine repair establishment or individual.

Complete all scheduled maintenance in a timely manner. Correct any issue before operating the generator.

**NOTE**

For service or parts assistance, contact our help line at 1-877-338-0999

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**Engine Maintenance**

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

**Oil**

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

1. Remove oil fill cap/dipstick.
2. Use pliers to slide the spring clamp down the oil drain hose and pull the hose off the plug bracket.
3. Point the hose into a drain pan and allow the oil to drain completely. **Note:** The hose end must be lower than the engine base to allow the oil to drain.
4. Replace oil drain hose onto plug bracket and slide spring clamp back into position.
5. Add up to 1.2 qt. (1.1 L) of oil and replace oil fill cap/dipstick. **DO NOT OVERFILL.**
6. Dispose of used oil at an approved waste management facility.

**Oil Cont’d.**

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.

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**Spark Plugs**

1. Remove the spark plug cable from the spark plug.
2. Use the spark plug tool (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 0.7 - 0.8 mm or (0.028 - 0.031 in.).
5. Refer to the spark plug recommendation chart when replacing the plug.
6. Carefully thread the plug into the engine.
7. Use the spark plug tool (not included) to firmly install the plug.
8. Attach the spark plug wire to the plug.

**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.
Spark Arrester
1. Allow the engine to cool completely before servicing the spark arrester.
2. Remove the three (3) screws holding the cover plate which retains the end of the spark arrester to the muffler.
3. Remove the spark arrester screen.
4. Carefully remove the carbon deposits from the spark arrester screen with a wire brush.
5. Replace the spark arrester if it is damaged.
6. Position the spark arrester in the muffler and attach with the three (3) screws.

**CAUTION**
Failure to clean the spark arrester will result in degraded engine performance.

**NOTE**
Federal and local laws and administrative requirements indicate when and where spark arresters are required. When ordered, spark arresters 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 arrester.

Cleaning

**CAUTION**
DO NOT spray engine with water.

Water can contaminate the fuel system.

Use a damp cloth to clean exterior surfaces of the engine. Use a soft bristle brush to remove dirt and oil. Use an air compressor (25 PSI) to clear dirt and debris from the engine.

Adjustments
The air-fuel mixture is not adjustable. Tampering with the governor can damage your generator and your electrical devices and will void your warranty. CPE recommends that you contact our service line 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 helpline at 1-877-338-0999 to locate the nearest Champion Power Equipment certified service dealer for your generator or engine maintenance needs.

<table>
<thead>
<tr>
<th>Every 8 hours or daily</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check oil level</td>
</tr>
<tr>
<td>Clean around air intake and muffler</td>
</tr>
<tr>
<td>Check hoses for leaks</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>First 5 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change oil</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Every 50 hours or every season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean air filter</td>
</tr>
<tr>
<td>Change oil if operating under heavy load or in hot environments</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Every 100 hours or every season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change oil</td>
</tr>
<tr>
<td>Clean/Adjust spark plug</td>
</tr>
<tr>
<td>Check/Adjust valve clearance*</td>
</tr>
<tr>
<td>Clean spark arrester</td>
</tr>
<tr>
<td>Clean fuel tank and filter*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Every 250 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean combustion chamber*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Every 3 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace fuel line and LPG hose</td>
</tr>
</tbody>
</table>

*To be performed by knowledgeable, experienced owners or Champion Power Equipment certified dealers.

**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.

**CAUTION**
DO NOT use a garden hose to clean the generator.

Water can enter the generator through the cooling slots and damage the generator windings.

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

Storage
The generator should be started at least once every 14 days and allowed to run for at least 20 minutes. For longer term storage, please follow these guidelines.

Generator Storage
1. Add a properly formulated fuel stabilizer to the tank.
2. Be sure all appliances are disconnected from the generator.
3. Run the generator for a few minutes so the treated fuel cycles through the fuel system and carburetor.
4. Turn the fuel valve to the “Off” position.
5. Let the generator run until fuel starvation has stopped the engine. This usually takes a few minutes.
6. The generator needs to cool completely before cleaning and storage.
7. Clean the generator according to the maintenance section.
8. Change the oil.
9. Remove the spark plug and pour about 1/2 ounce (14.8 mL) of oil into the cylinder. Crank the engine slowly to distribute the oil and lubricate the cylinder.
10. Reattach the spark plug.
11. Store the unit in a clean, dry place out of direct sunlight.

Generator Battery
This product is equipped with an automatic battery charging circuit. The battery will receive charging voltage when 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 (included) to keep the battery properly charged. 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. Remove the protective cover from the black/negative battery lead.
2. Disconnect the black/negative lead from the black/negative terminal on the battery and store the cap screw (M5x10) and nut (M5).
3. Repeat steps 1-2 for the red/positive battery lead.
4. Store the battery in a cool, dry place.

Charge the Battery
For a generator equipped with batteries for electric starting, proper battery maintenance and storage should be followed. An automatic battery charger (included) with automatic trickle charging capability should be used to charge the battery. 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.

DANGER
Generator exhaust contains odorless and colorless carbon monoxide gas.

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

- When storing the generator for short periods of time make sure that the Ignition Switch, the Fuel Valve and the Battery Switch are set in the OFF position.
- When storing the generator for extended periods of time make sure that the Ignition Switch, the Fuel Valve and the Battery Switch are set in the OFF position and the battery leads have been disconnected from the battery.

NOTE
A Float Charger will maintain the battery condition over long storage periods.
**Engine Specifications**
- Model: YF190FD-2-L_G
- Displacement: 439cc
- Type: 4-Stroke OHV
- Start Type: Electric Start

**Generator Specifications**
- Model: 100155
- Running Wattage (Gasoline): 7000 Watts
- Peak Wattage (Gasoline): 9000 Watts
- Running Wattage (LPG): 6300 Watts
- Peak Wattage (LPG): 8100 Watts
- AC Load: 120/240 V
- Phase: Single
- Frequency: 60 Hz
- Fuel Capacity (Gasoline): 6.1 gal. (23 L)
- Gross Weight: 224.4 lb. (101.8 kg)
- Net Weight: 202.4 lb. (91.8 kg)
- Height: 26.4 in. (67.1 cm)
- Width: 28.7 in. (72.9 cm)
- Length: 27.8 in. (70.3 cm)

**Fuel**
Fuel (Gasoline) capacity is 6.1 gal. (23 L).
- Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.
- Use only an approved LPG cylinder equipped with an OPD valve.

**Spark Plugs**
- OEM spark plug: NHSP F6RTC
- Replacement spark plug: NGK BPR6ES or equivalent
Make certain the spark plug gap is 0.7 - 0.8 mm or (0.028 - 0.031 in.).

**Maintenance Valve Clearance**
- Intake: 0.13 – 0.17 mm (0.005 – 0.007 in.)
- Exhaust: 0.18 – 0.22 mm (0.007 – 0.009 in.)
Note: Tech bulletin regarding the valve adjustment procedure is on www.championpowerequipment.com.

**An Important Message About Temperature**
Your Champion Power Equipment product is designed and rated for continuous operation at ambient temperatures up to 40°C (104°F). When your product is needed your product may be operated at temperatures ranging from -15°C (5°F) to 50°C (122°F) for short periods. If the product is 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 other vents.

**Oil**
Use 10W-30 automotive oil.
Oil capacity is up to 1.2 qt. (1.1 L).
DO NOT OVERFILL.
Please reference the following chart for recommended oil types for use in the generator.

**NOTE**
Weather will affect engine oil and engine performance. Change the type of engine oil used based on weather conditions to suit the engine needs.
<table>
<thead>
<tr>
<th>#</th>
<th>Part Number</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>206.006</td>
<td>Clamp (Ø7xØ1)</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>205.001</td>
<td>Clamp (Ø8x6.5)</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>152.070014.05</td>
<td>Pipe, Reversal Valve (ø10 mm)</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>152.070011.03</td>
<td>Pipe, Air Cleaner</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>1.5789.0608</td>
<td>Flange Bolt M6x8</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>152.070018.02</td>
<td>Board, Heat Insulation</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>152.070070.06</td>
<td>Support Arm, Top</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>152.070070.02</td>
<td>Carbon Canister (650cc)</td>
<td>1</td>
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<tr>
<td>9</td>
<td>1.1667.0812</td>
<td>Flange Bolt M8x12</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>152.070070.05</td>
<td>Support Arm, Bottom</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>122.070010.07</td>
<td>Fuel Tank Cap</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>122.070030.03</td>
<td>Fuel Filter Assembly</td>
<td>1</td>
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<tr>
<td>13</td>
<td>24.078000.00</td>
<td>Reversal Valve</td>
<td>1</td>
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<tr>
<td>14</td>
<td>152.071000.31.48</td>
<td>Fuel Tank, Yellow</td>
<td>1</td>
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<tr>
<td>15</td>
<td>1.5789.0620.2</td>
<td>Flange Bolt M6x20</td>
<td>4</td>
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<tr>
<td>16</td>
<td>1.93.06</td>
<td>Lock Washer Ø6</td>
<td>8</td>
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<td>17</td>
<td>2.03.004</td>
<td>Washer (Ø24xØ6.5x1.5)</td>
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<tr>
<td>18</td>
<td>122.070015.01</td>
<td>Mount Vibration, Fuel Tank</td>
<td>1</td>
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<tr>
<td>19</td>
<td>21.070060.01</td>
<td>Connect, Copper</td>
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<tr>
<td>20</td>
<td>2.06.016</td>
<td>Clamp (Ø8.7x8)</td>
<td>4</td>
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<td>21</td>
<td>152.070011.08</td>
<td>Pipe, Fuel (265mm)</td>
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<td>22</td>
<td>45.090006.20</td>
<td>Holder, Air Cleaner</td>
<td>1</td>
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<td>23</td>
<td>1.1677.1.06</td>
<td>Flange Lock Nut M6</td>
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<td>24</td>
<td>1.684.08</td>
<td>Washer Ø8</td>
<td>2</td>
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<td>25</td>
<td>2.05.08</td>
<td>Lock Washer Ø8</td>
<td>2</td>
</tr>
<tr>
<td>26</td>
<td>1.6175.08</td>
<td>Nut M8</td>
<td>2</td>
</tr>
<tr>
<td>27</td>
<td>46.100001.07</td>
<td>Gasket, Exhaust</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>48.101000.01,2</td>
<td>Muffler Assembly</td>
<td>1</td>
</tr>
<tr>
<td>29</td>
<td>1.9074.0.0510</td>
<td>Screw/Matcher Assembly M5x10</td>
<td>3</td>
</tr>
<tr>
<td>30</td>
<td>46.101300.00</td>
<td>Spark Arrester Assembly</td>
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</tr>
<tr>
<td>31</td>
<td>1.1667.0820</td>
<td>Flange Bolt M8x20</td>
<td>2</td>
</tr>
<tr>
<td>32</td>
<td>1.1675.05</td>
<td>Nut M5</td>
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Engine Parts Diagram
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Wiring Diagram
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<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
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<tr>
<td>Generator will not start</td>
<td>No fuel</td>
<td>Add fuel</td>
</tr>
<tr>
<td></td>
<td>Faulty spark plug</td>
<td>Replace spark plug</td>
</tr>
<tr>
<td></td>
<td>Unit loaded during start up</td>
<td>Remove load from unit</td>
</tr>
<tr>
<td>Generator will not start; Generator starts but runs roughly</td>
<td>Low oil level</td>
<td>Fill crankcase to the proper level</td>
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<tr>
<td></td>
<td>Choke in the wrong position</td>
<td>Adjust choke</td>
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<tr>
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<td>Spark plug wire loose</td>
<td>Attach wire to spark plug</td>
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<tr>
<td>Generator will not start electrically</td>
<td>Generator battery is dead</td>
<td>Recharge generator battery</td>
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<tr>
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<td>Battery switch is in the “OFF” position</td>
<td>Turn battery switch to “ON” position</td>
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<tr>
<td>Generator shuts down during operation</td>
<td>Out of fuel</td>
<td>Fill the gasoline tank or fill LPG cylinder</td>
</tr>
<tr>
<td></td>
<td>Low oil level</td>
<td>Fill crankcase to the proper level. Place generator on a flat, level surface</td>
</tr>
<tr>
<td>Generator cannot supply enough power or overheating</td>
<td>Generator is overloaded</td>
<td>Review load and adjust. See “Power Management”</td>
</tr>
<tr>
<td></td>
<td>Insufficient ventilation</td>
<td>Check for air restriction. Move to a well ventilated area</td>
</tr>
<tr>
<td>No AC output</td>
<td>GFCI duplex is tripped</td>
<td>Press Reset Button on duplex</td>
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<tr>
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<td>Cable not properly connected</td>
<td>Check all connections</td>
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<tr>
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<td>Connected device is defective</td>
<td>Replace defective device</td>
</tr>
<tr>
<td></td>
<td>Circuit breaker is open</td>
<td>Reset circuit breaker</td>
</tr>
<tr>
<td></td>
<td>Faulty brush assembly</td>
<td>Replace brush assembly (Service Center)</td>
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<tr>
<td></td>
<td>Faulty AVR (auto voltage regulator)</td>
<td>Replace AVR (Service Center)</td>
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<tr>
<td></td>
<td>Loose wiring</td>
<td>Inspect and tighten wiring connections</td>
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<tr>
<td></td>
<td>Other</td>
<td>Contact the help line</td>
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<tr>
<td>Repeated circuit breaker tripping</td>
<td>Overload</td>
<td>Review load and adjust. See “Power Management”</td>
</tr>
<tr>
<td></td>
<td>Faulty cords or device</td>
<td>Check for damaged, bare or frayed wires. Replace defective device</td>
</tr>
</tbody>
</table>

For further technical support:

Technical Service
Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
tech@championpowerequipment.com
Warranty Qualifications
Champion Power Equipment (CPE) will register this warranty upon receipt of your Warranty Registration Card and a copy of your sales receipt from one of CPE’s retail locations as proof of purchase. Please submit your warranty registration and your proof of purchase within ten (10) days of the 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.

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, CARB and/or ECCC 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.
Customer Service
12039 Smith Ave.
Santa Fe Springs, CA 90670 USA
www.championpowerequipment.com

Customer Service
Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
info@championpowerequipment.com
Fax no.: 1-562-236-9429

Technical Service
Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
technicalsupport@championpowerequipment.com
24/7 Tech Support: 1-562-204-1188

*Except as otherwise stipulated in any of the following enclosed Emission Control System Warranties (when applicable) for the Emission Control System: U.S. Environment Protection Agency (EPA), California Air Resources Board (CARB) and/or Environment and Climate Change Canada (ECCC). Whichever warranty applies for the longer period, either this 3 year limited warranty or the applicable Emission Control System Warranty, shall supersede the other.
Your Champion Power Equipment (CPE) engine complies with both the U.S. EPA and state of California Air Resources Board (CARB) emission regulations.

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

The US EPA, California Air Resources Board, and CPE are pleased to explain the Federal and California Emission Control Systems Warranty on your 2018 small off-road engine (SORE) and engine powered equipment. In California, new, small off-road engines (SORE) and new equipment that use small off-road engines (SORE) must be designed, built and equipped to meet the State’s stringent anti smog standards. In the other states, 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. For engines less than or equal to 80cc, only the fuel tank and fuel line is subject to the evaporative emission control warranty requirements of this section.

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, 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 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.

1. APPLICABILITY: This warranty shall apply to 1995 and later model year California small off-road engines (SORE) (for other states, 1997 and later model year engines). 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:

a. Designed, built and equipped so as to conform to U.S. EPA emissions standards for spark-ignited engines at or below 19 kilowatts and all applicable regulations adopted by the California Air Resources Board and

b. 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:

a. 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.

b. 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.

c. 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.

d. 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.

e. 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.

f. 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.

g. 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.

h. 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.

i. 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.

j. 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)

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

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