

OWNER'S MANUAL





15000 Starting Watts / 12000 Running Watts Electric start

PORTABLE GENERATOR



MODEL NUMBER **100111**

SAVE THESE INSTRUCTIONS

Important safety instructions are included in this manual.

MADE IN CHINA REV 100111-20180321 12039 Smith Ave. Santa Fe Springs CA 90670 USA / 1-877-338-0999 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.

Have questions or need assistance?

Do not return this product to the store!

WE ARE HERE TO HELP!

Visit our website: www.championpowerequipment.com for more info:

- Product Info & Updates
- Tech Bulletins
- Frequently Asked Questions
- Product Registration

– or –

Call our Customer Care Team Toll-Free at:

1-877-338-0999

Parts Ordering:

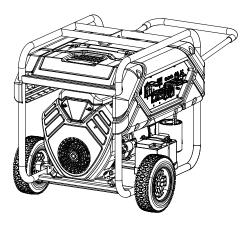
Mon - Fri 8:30 AM - 5:00 PM (PST/PDT) Toll Free: 1-877-338-0999

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.



15000 Starting Watts / 12000 Running Watts Electric start

PORTABLE GENERATOR

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INTRODUCTION

Introduction

Congratulations on your purchase of a Champion Power Equipment product. Champion Power Equipment and Champion Engine Technology 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, and we reserve the right to change, alter and/or improve the product and this document at any time without prior notice.

Since CPE/CET highly value how our products are designed, manufactured, operated and are serviced, and also highly value your safety and the safety of others, we would like you to take the time 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 error on the side of caution when operating the product to ensure no accidents, property damage, or injury occurs. We want you to continue to use and be satisfied with your CPE/CET product for years to come.

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.

Champion Power Equipment Support
1-877-338-0999
Model Number
100111
Serial Number
Date of Purchase
Purchase Location
For Oil Type see 'Add Engine Oil' section. For Fuel Type see 'Add Fuel' section.

1

MANUAL CONVENTIONS

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.

A DANGER

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

WARNING

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

! CAUTION

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

CAUTION

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

NOTE

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

⚠ 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.

A DANGER

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.

Operate generator outdoors only in a well ventilated area.

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

DANGER CARBON MONOXIDE: using a generator indoors **CAN KILL YOU IN MINUTES**.

A 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.

A 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

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.

⚠ WARNING

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 DANGER

Fuel and fuel vapors are highly flammable and extremely explosive.

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

When adding or removing fuel:

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.

Disconnect the spark plug wires.

If generator has been running, allow to cool before transporting or servicing.

When storing the generator:

Store away from sparks, open flames, pilot lights, heat and other sources of ignition. If generator has been running, allow to cool before storing.

① CAUTION

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

DO NOT overload the generator.

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 before stopping the generator.

DO NOT tamper with the governed speed.

DO NOT modify the generator in any way.

① CAUTION

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

↑ WARNING

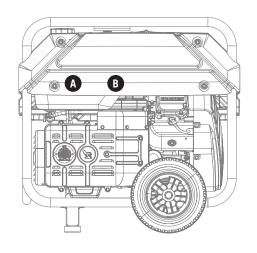
Lift bar is designed to carry ONLY the weight of the generator.

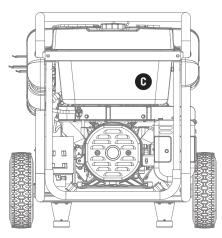
DO NOT overload the lift bar. DO NOT place anything on top of, in the frame of, or attach to the generator prior to lifting. Stand clear when generator is lifted off the ground. Do not stand, walk or pass under the generator, or allow anyone to pass under it when lifting. A falling generator can result in bodily injury, death, and/or property damage. DO NOT lift while the generator is running. Unplug all items from power panel before lifting. Lift using a lift strap or hook through the holes in the lift bar. DO NOT attempt to refuel or perform any maintenance while the generator is in the air at any height.

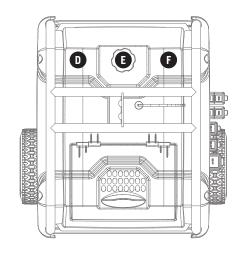
Safety Label Locations

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 Champion Power Equipment's customer service department for possible replacement.











▲ PRECAUCIÓN

Es OBLIGATORIO usar un interruptor de
transferencia cuando se conecte el generado
al sistema eléctrico de un inmueble. Vea el

A MISE EN GARDE

Le commutateur de transfert DOIT être
utilisé pour connecter la génératrice
au système électrique d'un immeuble.





O TOCANI Los pases de La pormició de este apolip puede produció chipos que pueden provioce puese el siencidor y los momentes del monor estan semantes de la porte del porte de la porte del porte de la porte del porte del porte de la porte de la porte de la porte del porte de la porte del po

THE PAS TURGHERII Les par. De l'écologisment paul crier de sitencient et provique en locardie deux d'échappement, les élemènes. Le séptiation siches, les pare-éfecciles paut être requis. L'opérative et les pièces de moter sort du communique ance le service d'intendité colo que consilir les actificament DEAUDS et pois et les réplaments en matière de prévention des socienties. Se des proviette causarde des brûnes, est insalière, entrépu boute et de prévention des socienties. Se des proviette causarde des brûnes, est insalière, entrépu boute en to followers ou chapse de brûnes est insalière, entrépu boute en to followers ou chapse de brûnes est insalière.





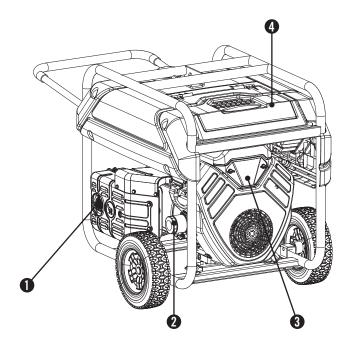


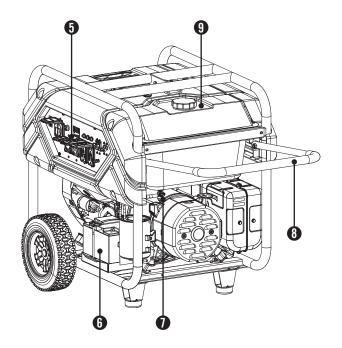


CONTROLS AND FEATURES

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

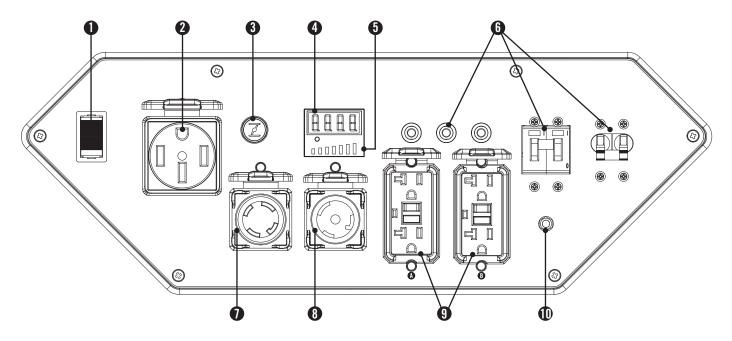




- (1) Spark Plug Arrester and Muffler
- (2) Oil Filter
- (3) Air Filter Cover
- (4) Engine Access Cover
- (5) Power Panel See "Power Panel" section.
- (6) Battery Used to start the engine.

- (7) Fuel Valve Used to turn fuel supply on and off to engine.
- (8) Handle
- (9) Fuel Tank 10.9 gallon (41.2 L) capacity fuel tank.

Power Panel



- (1) Ignition Switch Press the switch to the "START" position to start the generator. Flip to the "OFF" position to turn off the generator.
- (2) 120/240 Volt AC / 50 Amp Receptacle
 (NEMA 14-50R) May be used to supply electrical power for the operation of 120 and/or 240 Volt AC, single phase 60 Hz electrical loads.
- (3) Choke Used to start the engine.
- (4) Intelligauge Cycles through four modes displaying voltage, frequency, running time, and total time for approximately five seconds each. If an over-voltage condition occurs, the display will only show the voltage and will be blinking. If the voltage continues to rise, the display will blink "EEEE". The generator is to be shut off immediately in an over-voltage condition.
- (5) Power Meter Displays the generator's output in reference to its rated wattage. The greater the output the more LED's illuminate. The LED bars will light up from green to red. If the red LEDs light up, the generator is overloaded. Stop use of equipment and disconnect immediately to stop overloading. DO NOT OVERLOAD THE GENERATOR.

- **(6) Circuit Breakers** Protects the generator against electrical overloads.
- (7) 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.
- (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 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.
- **(10) Ground Terminal** Consult an electrician for local grounding regulations.

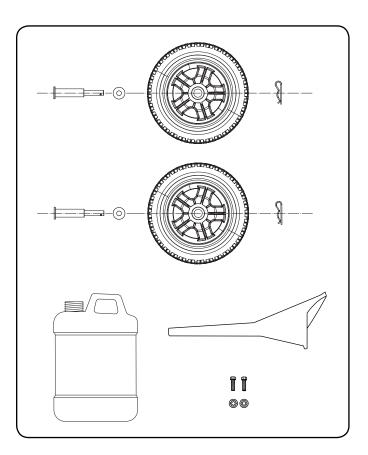
CONTROLS AND FEATURES

Parts Included

Your 100111 gasoline powered enerator ships with the following parts:

Wheel Kit

_	12 in. Wheel	2
-	Pin Roll Ø16 x Ø12 x 116 (for Wheel)	2
-	"R" Shape Pin	2
_	Washer Ø12	2
0t	her	
_	Oil Funnel	L
-	Engine Oil	L
-	Flange bolt M5x12 for battery	2
_	Flange lock nut M5	2



ASSEMBLY

Your generator requires some assembly. This unit ships from our factory without oil or fuel. 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

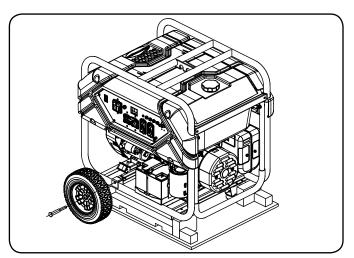
- 1. Set the shipping carton on a solid, flat surface.
- Remove the cardboard completely from over the generator.
- 3. Remove everything from the carton/pallet, except the generator.

Install the Wheel Kit

(CAUTION

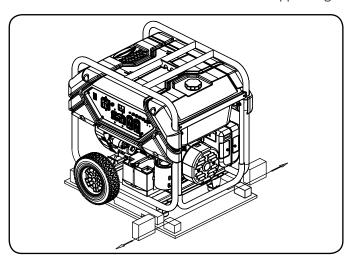
The wheel kit is not intended for over-the-road use.

- 1. 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
- 4. Slide the wheel pin roll through the mount point on the frame.
- 5. Slide the washer and secure with the R-Pin.
- 6. Secure with the R-Pin.

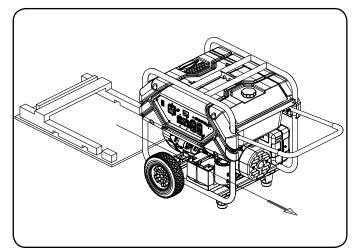


Install the Wheel Kit Cont'd.

- 7. Repeat steps 2-5 to attach the second wheel.
- 8. Remove wooden blocks from behind the support leg.



9. Slide the unit forward until the wheels touch the ground. Then raise handle to pull the unit out from the wood pallet.



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 cap screw (M5x12) and secure with the lock washer (M5).
- 3. Repeat steps 1-2 for the black (–) battery lead.

Add Engine Oil

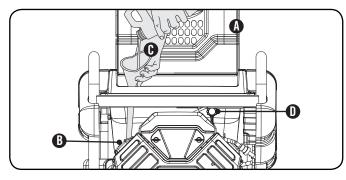
(I) CAUTION

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.

♥ NOTE

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

- 1. Place generator on a flat, level surface.
- 2. Open the engine access cover (A).

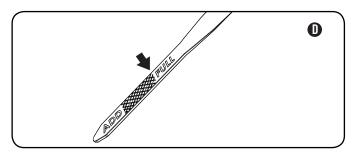


- 3. Remove oil fill cap by rotating 1/4 turn counterclockwise (B).
- 4. Using funnel fill to full mark on dipstick. DO NOT OVERFILL.

Volume for first use or oil change without oil filter change: 1.2 qt.(1.1 L).

Volume after oil and oil filter change: 1.5 qt.(1.4L).

5. Check engine oil level on dipstick (D). Add as needed. DO NOT OVERFILL.



- 6. Replace oil fill cap by rotating \(\frac{1}{4} \) turn clockwise.
- Close engine access cover.

Add Engine Oil Cont'd.

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.



NOTE

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

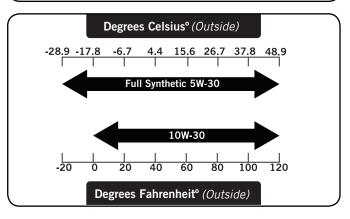


◯ NOTE

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

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.





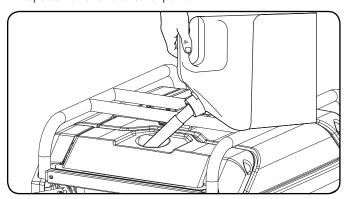
♥ NOTE

Using synthetic oil does not increase the recommended oil change interval. Full synthetic 5W-30 oil will aid in starting in cold ambient <5°C (41°F) temperatures.

ASSEMBLY

Add Fuel

- 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 ½ in. (6.4 mm) of space left in the tank is required for fuel expansion, more than 1/4 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.



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

(I) 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.

Add Fuel Cont'd.

◯ NOTE

Champion 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.

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 of a length of heavy gauge (12 AWG minimum) copper wire between the generator ground terminal and a copper rod driven into the ground. We strongly recommend that you consult with a qualified electrician to ensure compliance with local electrical codes.

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.

MARNING

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.

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

OPERATION

Starting the Engine Cont'd.



NOTE

Keep choke knob pulled out for only 1 push of the ignition switch. After first push, press knob in for up to the next 3 pushes of the ignition switch. 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

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.



NOTE

The supplied 12V 33AH battery does re-charge while the engine is running, but it is also recommended that the battery be fully charged at least once per month.

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.

Connecting Electrical Loads Cont'd.



◯ 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

Stopping the Engine

laws and codes.

- 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. Press the ignition switch to the "OFF" position.
- 4. Turn the fuel valve 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

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.

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.
- 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:

Volts x 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 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 airfuel ratio decrease. Engine power and generator output will be reduced approximately 3½% for every 1000 ft. (305 m) 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.

If using this product above the elevation of 5500 ft. (1676 m) Champion Power Equipment suggests ordering a high altitude jet kit. Champion Power Equipment can provide a high altitude carburetor jet kit (part no. 101131) at an additional cost. The alternative jet kit 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.

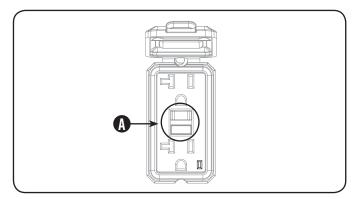
AWARNING

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.

OPERATION

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.
- 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 is 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.

MARNING

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.

MAINTENANCE AND STORAGE

The owner/operator is responsible for all periodic maintenance.



Never operate a damaged or defective generator.

MARNING

Tampering with the factory set governor will void your warranty.

↑ WARNING

Improper maintenance will void your warranty.



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.



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

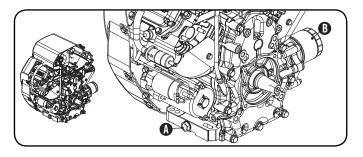
Engine Maintenance

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

Oil and Oil Filter Change

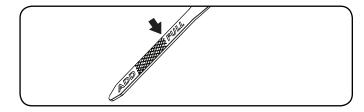
Change oil when the engine is warm. Refer to the oil specification to select the proper grade of oil for your operating environment.

1. Remove the oil drain bolt (A) with a 15mm socket or wrench (not included) and drain into appropriate container.



Oil Cont'd.

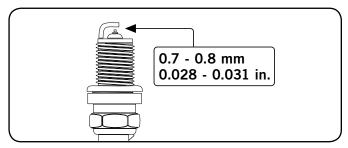
- 2. After the oil has completely drained, replace the drain bolt.
- 3. With the oil drained, remove oil filter by turning counterclockwise (B).
- 4. Apply a light coat of clean engine oil to the gasket of the new oil filter.
- 5. Screw the new oil filter on (turning clockwise) by hand until the gasket contacts the engine block.
- 6. Screw the filter an additional 3/4 turn.
- 7. Open engine access cover.
- 8. Using funnel fill to full mark on dipstick. DO NOT OVERFILL.
 - Volume for first use or oil change without oil filter change: 1.2 qt.(1.1 L).
 - Volume after oil and oil filter change: 1.5 qt.(1.4L).
- Check engine oil level on dipstick. Add oil as needed. DO NOT OVERFILL.



- 10. Replace oil fill cap.
- 11. Close engine access cover.
- 12. Dispose of used oil and filter at an appropriate waste management facility.

Spark Plugs

- 1. Remove the spark plug cable from the spark plug.
- 2. Use a spark plug socket tool (not included), or a 13/16 in. or 21mm 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 0.7 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.

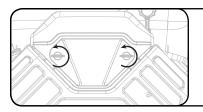
MAINTENANCE AND STORAGE

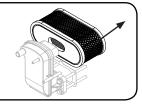
Spark Plug Cont'd.

- 7. Use the spark plug socket (not included) to firmly install the plug.
- 8. Attach the spark plug wire to the plug.

Air Filter

- 1. Open engine access cover.
- 2. Remove the air filter cover by turning the two fasteners 1/4 turn counterclockwise.
- 3. Pull the air filter straight out away from engine.

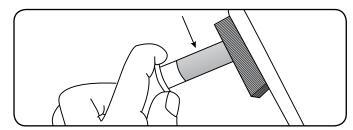




- 4. Install new air filter.
- 5. Replace air filter cover and turn the two fasteners 1/4 turn clockwise.
- 6. Close engine access cover.

Spark Arrester

- 1. Allow the engine to cool completely before servicing the spark arrester.
- 2. Remove the two screws holding the cover plate which retains the end of the spark arrester to the muffler.
- 3. Remove the spark arrester.
- 4. Carefully remove the carbon deposits from the spark arrester 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 two screws.



(I) CAUTION

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



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.

Every 8 hours or daily		
Check oil level		
Clean around air intake and muffler		
First 5 hours		
Change oil and oil filter		
Every 50 hours or every season		
Clean air filter		
Change oil if operating under heavy load or in hot environments		
Every 100 hours or every season		
Change oil and oil filter		
Clean/Adjust spark plug		
Check/Adjust valve clearance*		
Clean spark arrester		
Clean fuel tank and filter*		
Every 250 hours		
Clean combustion chamber*		
Every 3 years		
Replace fuel line		

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

MAINTENANCE AND STORAGE

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.

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
- 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 acompletely 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.

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

Battery Cont'd.

charger or battery maintainer to keep the battery properly charged. 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.

Charge the Battery

For generators equipped with batteries for electric starting, proper battery maintenance and storage should be followed. An automatic battery charger (not 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.



◯ NOTE

A Float Charger will maintain the battery condition over long storage periods.

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 (M5x12) and lock washer (M5).
- 3. Repeat steps 1-2 for the red/positive battery lead.
- 4. Store the battery in a cool, dry place.



A DANGER

Generator exhaust contains odorless and colorless carbon monoxide gas.

To avoid accidental or unintended ignition of your electric 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 and the FuelValve are set in the **OFF** position.
- When storing the generator for extended periods of time make sure that the Ignition Switch and the Fuel Valve are set in the **OFF** position and the battery leads have been disconnected from the battery.

SPECIFICATIONS

Engine Specifications

_	Model
-	Displacement
-	Type Milwaukee Series OHV Commercial V-Twin
_	Start Type Electric Start

Generator Specifications

	•
-	Model
-	Running Wattage
_	Starting Wattage
_	AC Load
_	Phase
_	Frequency
_	Fuel Capacity
_	Gross Weight
_	Net Weight
_	Height
_	Width
_	Length

Fuel

Fuel capacity is 10.9 gallons (41.2 L). Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.

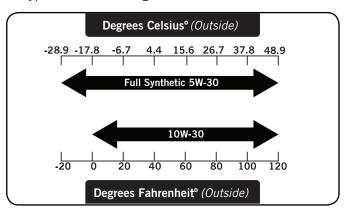
Oil

Use 10W-30 automotive oil.

Oil capacity is up to 1.5 qt. (1.4 L).

DO NOT OVERFILL.

Please reference the following chart for recommended oil types for use in the generator.



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.).

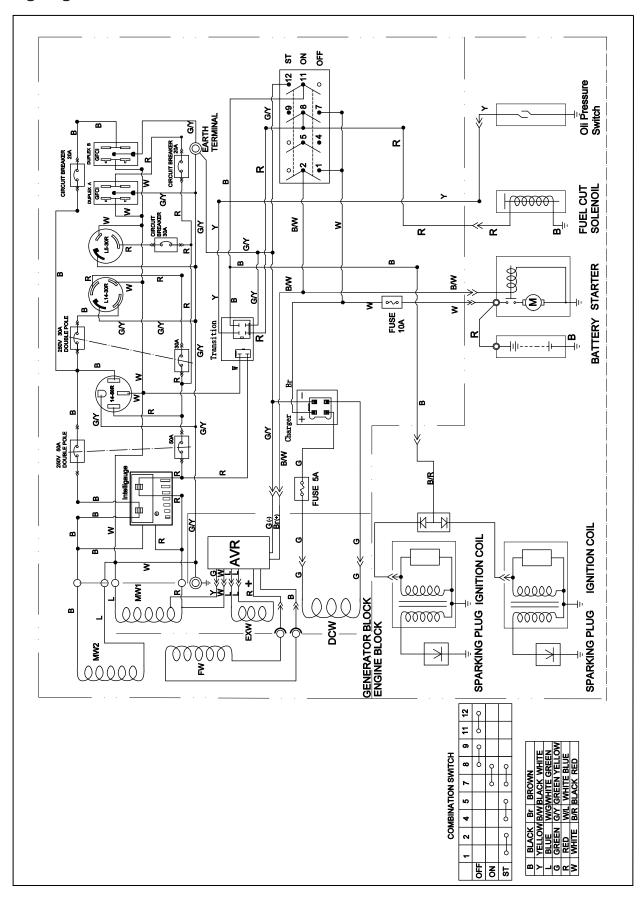
Maintenance Valve Clearance

- Intake: 0.13 0.18 mm (0.005 0.007 in.)
- Exhaust: 0.13 0.18 mm (0.005 0.007 in.)

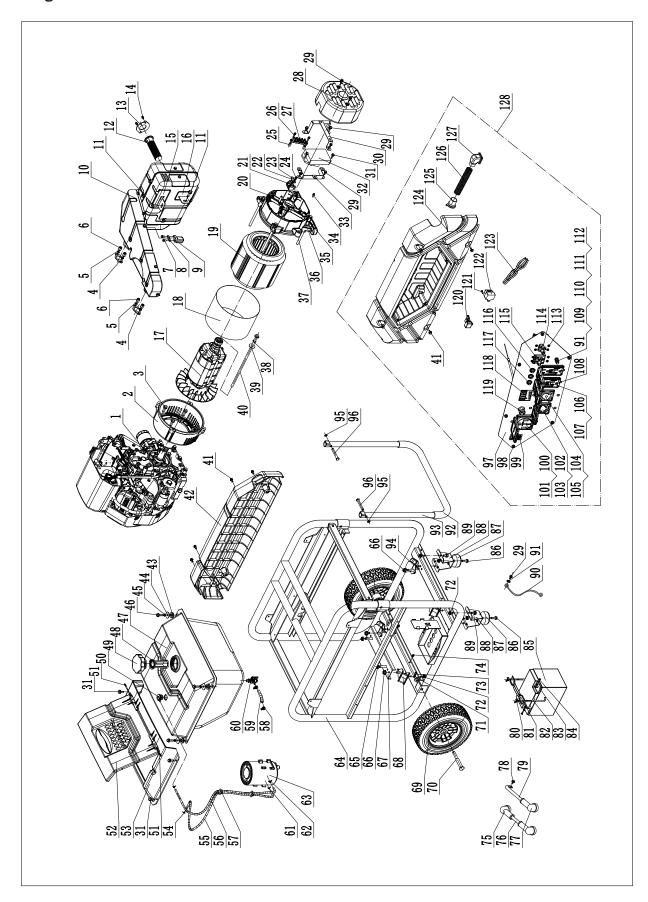
An Important Message About Temperature

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.

Wiring Diagram



Parts Diagram



SPECIFICATIONS

#	Part Number	Description	Qty
1	100181	Engine	1
2	172.190007.00	Crankcase Cover	1
3	1.5789.1022	Flange bolt M10 x 22	4
4	717.100001.00	Gasket, exhaust	2
5	1.93.08	Lock washer Ø8	4
6	2.02.033	Nut M8	4
7	1.16674.0616	Flange bolt M6 x 16	2
8	24.100300.03	Gasket, Secondary Air Intake Valve	1
9	717.100300.00	Secondary Air Intake Valve	1
10	717.101000.03	Muffler assembly	1
11	1.16674.0820	Flange bolt M8 x 20	2
12	717.101300.01	Spark arrester assembly	1
13	717.101503.01	Plate, spark arrester	1
14	1.9074.17.0612	Bolt/washer assembly M6 x 12	2
15	717.100005.01	Rubber pillow 1, muffler	1
16	717.100005.02	Rubber pillow 2, muffler	1
17	172.191100.00	Rotor assembly, Cu, Ø230 x 160 mm	1
18	172.191002.00	Cover, stator	1
19	172.191200.00	Stator assembly, Cu, Ø230 x 160 mm	1
20	172.190002.00	End housing	1
21	161.190300.00	Carbon brush assembly	1
22	122.190004.01	Pinch, carbon brush	1
23	1.93.05	Lock washer Ø5	1
24	1.5783.0520	Bolt M5 x 20	1
25	2.13.030	Bush, Ø6 x Ø14 x 15	2
26	1.16674.0535	Flange Bolt M5 x 35	2
27	172.190400.00	Terminal block	1
28	172.190003.00.48	End cover, generator, yellow	1
29	1.5789.0612	Flange bolt M6 x 12	8
30	172.190202.00	Holder 1, AVR	1
31	1.5789.0615	Flange bolt M6 x 15	6
32	172.190200.00	AVR	1
33	172.190202.01	Holder 2, AVR	1
34	1.16674.0516	Flange bolt M5 x 16	1
35	1.7244.08	Lock washer Ø8	4
36	1.97.1.08	Washer Ø8	4
37	2.08.112	Flange bolt M8 x 210	4
38	1.7244.10	Lock washer Ø10	1
39	1.96.10	Flat washer Ø10	1
40	2.08.129	Flange bolt M10 x 310	1
41	1.5789.0615.1	Flange bolt m6 x 15, black	8
42	172.200800.00.2	Decorative plate, black	1
43	122.070015.01	Mount vibration, fuel tank	4
44	2.03.004	Washer, Ø24 x Ø6.5 X 1.5	4
45	1.93.06	Lock washer Ø6	4
46	1.5789.0620.2	Flange bolt M6 x 20	4
47	172.071000.00.48	Fuel tank, yellow	1
48	122.070300.03	Fuel filter assembly	1
49	122.070100.07	Cap, fuel tank	1
50	24.070800.00	Reversal valve	1
51	172.200509.00	Pin, top cover	2
52	172.200505.00.48	Protector cover	1
53	172.200501.00.48	Top cover	1
54	2.06.006	Clamp Ø7 x Ø1	2

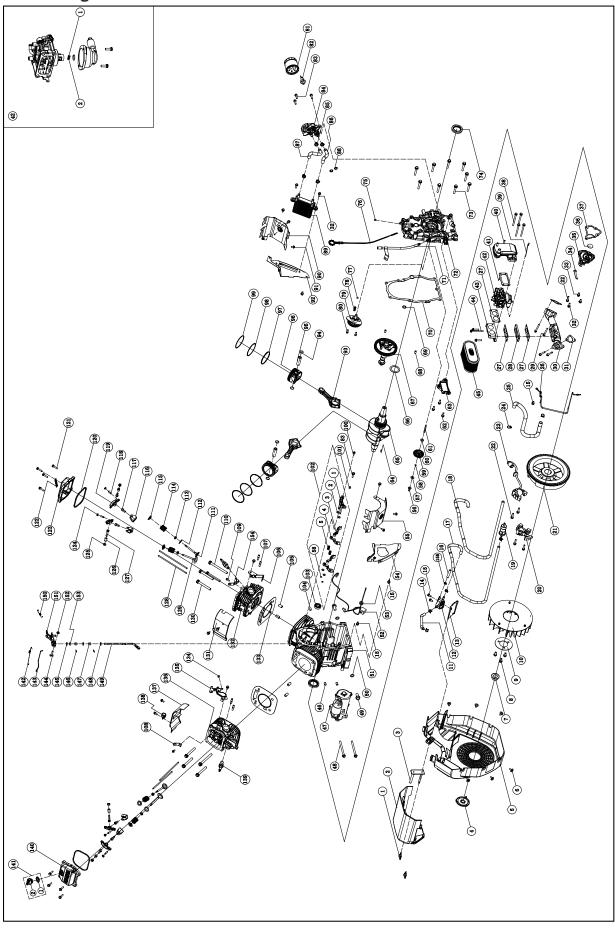
ш	Don't November	Description	Ohr
#	Part Number	Description	Qty
55	172.070014.01	Pipe, air cleaner, 1220 mm	1
56	172.070014.00	Pipe, reversal valve, 970 mm	1
57	172.070031.00	Jacket, pipe	2
58	2.06.027	Clamp Ø12 x B8	2
59	172.070011.01	Fuel pipe, 65 mm	1
60	172.070400.00	Fuel valve	1
61	2.06.004	Clamp Ø8 x Ø1	1
62	2.06.005	Clamp Ø9 x Ø1	1
63	172.070700.00	Carbon canister 1200 cc	1
64	61138.0.2	Frame	1
65	1.6182.10	Lock nut M10	2
66	1.6177.1.10	Lock nut M10, flange	4
67	172.201600.00.2	Supporter, engine	1
68	172.201200.00	Motor mount 1	2
69	172.201701.00.48	12 in. PU wheel, yellow	2
70	172.201501.00	Pin roll, wheel, Ø16 x Ø12 x 116	2
71	1.848.12	Washer Ø12	2
72	1.6177.1.08	Lock Nut M8, Flange	9
73	2.16.001	Pin Ø2 x 33, "R" Shape	2
74	2.05.001	Clamp, Ø8 x 6.5	2
75	163.200013.01	Red jacket 1, Wire	2
76	5.1900.082	Red wire 400 mm, battery	1
77	163.200013.00	Black jacket 2, wire	1
78	1.5789.0608	Flange bolt M6 x 8	1
79	5.1900.083	Black wire 350 mm, battery	1
80	1.62.06	Butterfly nut M6	2
81	172.200902.00.2	Pressure plate, battery	1
82	152.200014.00	Curved screws M6 x 150	2
83	1.6177.1.05	Lock Nut M5, Flange	2
84	1.16674.0512.2	Flange Bolt M5 x 12	2
85	9.1000.330	Battery 12V33AH	1
86	1.5789.0825	Flange bolt M8 x 25	2
87	152.201400.00	Rubber, support	2
88	172.200002.00.2	Support leg	2
89	1.5789.0816	Flange bolt M8 x 16	4
90	5.1900.084	Grounding line 200 mm	1
91	1.862.06	Lock washer Ø6, toothed	2
92	152.200702.02	Cover, handle	1
93	172.200701.00.2	Handle, U shape	1
94	171.201200.01	Motor mount 2	2
95	1.894.1.10	Circlip ø10	2
96	172.200703.00	Long pin, handle	2
97	172.219.1.2	Control panel	1
98	1.9074.4.0514.1	Screw/washer assembly M5 x 14, black	6
99	5.1000.007	Ignition switch, red	1
100	5.1120.039	Receptacle 14-50R	1
101	5.1870.007	Receptacle cover, 14-50R	1
102	5.1120.026	Receptacle L14-30R, CSA	1
103	5.1870.003	Receptacle cover, L14-30R	1
104	5.1120.023	Receptacle L5-30R, CSA	1
105	5.1870.006	Receptacle cover, L5-30R	1
106	5.1120.050	Receptacle 5-20R, duplex, GFCI	2
107	5.1870.005	Receptacle cover, 5-20R, GFCI	2
108	1.6177.1.04	Lock nut M4, flange	10

SPECIFICATIONS

Parts List Cont'd.

#	Part Number	Description	Qty
109	1.5783.0622.3	Bolt M6 x 22, green	1
110	1.6175.06.3	Nut M6, green	2
111	1.97.1.06.3	Washer Ø6, green	2
112	1.93.06.3	Lock washer Ø6, green	2
113	1.9074.4.0306.1	Screw/washer assembly M3 x 6, black	8
114	5.1240.930	30Amp circuit breaker, double pole, CSA	1
115	5.1241.950	50Amp circuit breaker, double pole, CSA	1
116	5.1210.920	20Amp circuit breaker, push button	2
117	5.1210.930	30Amp circuit breaker, push button	1
118	5.1440.005	Intelligauge, four in one	1
119	717.130200.00	Pull choke assembly	1
120	5.1820.001	Charger	1
121	1.818.0514.2	Screw M5 x 14	2
122	5.1810.008	Over voltage protector, CSA	1
123	100111.21.10	Wire assembly	1
124	172.210002.00.2	Control box, black	1
125	172.210003.01	Wire jacket, control box	1
126	5.1320.024	Sheath, wire, Ø23.5 x 300mm	1
127	172.210003.02	Plug, end cover	1
128	100111.21	Control panel assembly	1

Engine Parts Diagram



SPECIFICATIONS

#	Par	rt Number	Description	Qty
1	717.091500.00		Retainer, AC Cover	2
2	717.091000.00		Cover, Air Filter, Petrol	1
3	717.091001.00		Retainer, A/C Filter, 60 mm	1
4	101747		Insert, Fan Cover Logo	1
5	717.080100.00		Cover, Fan, Screen&Cooler Ribs	1
6	2.08.083		Bolt, Hex Flange M6	6
7	1.6177.20		Nut, M20 x 1.5 Flange	1
8	1.57	789.0816	Hex Flange Bolt, M8 x 16	3
9	61.0	080005.00	Plate, Fan	1
10	717.	.080001.00	Fan, Cooling	1
11	717.	.070011.00	Hose, Fuel	1
12	82.0	073000.00	Pulse Pump, Fuel	1
13	717.	.070004.00	Bracket, Fuel Pump	1
14	2.06	5.027	Hose Clamp, Ø12 x b8	4
15	1.57	789.0612	Hex Flange Bolt, M6 x 12	16
16	100	761	Hose, Pulse Line	1
17	100	716	Hose, Fuel Line, 1150 mm	1
18	100	736	Protective Sleeve, Fuel Hose, 1120 mm	1
19	717.	.070500.00	Fuel Filter	1
20	717.	.123000.03	Ignition Coil Assembly, Cylinder 1, EMC	1
21	100	922	Flywheel Assembly	1
22	1.5789.0629		Hex Flange Bolt, M6 X 29	7
23	717.123000.04		Ignition Coil Assembly, Cylinder 2, EMC	1
24	2.06	5.009	Clamp, Ø17ר1.5	2
25	717.	.030019.00	Tube, Breather	1
26	717.	.134101.00	Jumper Wire Assy, Solenoid	1
27	100	258	Gasket, Carburetor	3
28	61.1	30001.00	Insulator, Carburetor	1
29	1.16	6674.0640	Hex Small Flange Bolt, M6 x 40	4
30	717.	.130012.00	Intake Manifold	1
31	 	.130011.00	Gasket, Intake Manifold	2
32		789.0620	Hex Flange Bolt, M6 x 20	3
33	-	789.0615	Hex Flange Bolt, M6 x 15	2
34	-	030006.00	Retainer, Wire	1
35	 	.030021.00	Cover, Breather	1
36	-)30027.00	Valve, Unilateral	1
37	-	260	Gasket, Breather Cover	1
38	1.5789.0683		Hex Flange Bolt M6 x 83	4
39	717.110009.00		Link, Choke	1
40	100539		Elbow, Ac Intake Assembly Purge	1
41	717.090005.00		Gasket, Ac Assembly	1
42	/17.	.131000.00	Carburetor Assy	1
	1	100731	Main Jet Compl - Right	1
	<u> </u>	101126	Main Jet Compl, High Altitude - Right	1
]	100189	Main Jet Compl - Left	1
	2	102021	Main Jet Compl, High Altitude - Left	1

#	Part Number	Description	Qty
43	61.130013.00	Connector, Carburetor	1
44	1.5789.0665	Hex Flange Bolt, M6 x 65	1
45	100275	Air Filter Assembly	1
46	2.04.003	Pin, Dowel Ø10 x 14	2
47	61.125000.00	Motor Assy, 12V Solenoid Shift Starter	1
48	1.16674.08110	Hex Small Flange Bolt, M8 x 110	2
49	2.08.039	Bolt, Drain, M12 \times 1.5 \times 15	2
50	2.03.023	Washer, Drain Bolt, Ø12.5 × Ø20 × 2	2
51	717.030100.00	Crankcase Component	1
52	61.120800.00	Diode Assembly, Engine Stop	1
53	2.12.004	Grommet Ø9.5 × 10	1
54	717.080800.02	Air Board, Cylinder 1 Assembly	1
55	717.080500.01	Air Guide, Outer Cylinder 1 Assembly	1
56	45.110012.00	Bushing, Governor Gear	1
57	2.03.053	Washer, Ø6.2 × Ø17 × 0.8	1
58	21.110011.00	Clip, Retaining	3
59	61.110100.00	Gear Assy, Governor	1
60	2.03.054	Washer, Ø6.2 X Ø15 X 1	1
61	45.110013.00	Shaft, Governor Gear	1
62	1.5789.0620	Hex Flange Bolt, M6 X 20	3
63	61.150300.00	Oil Filter Component	1
64	2.14.005	Key, Flywheel, $4 \times 5.5 \times 12.5$	1
65	717.051101.04	Assembly, Crankshaft - Taper Pto	1
66	2.03.026	Washer, Crankshaft Thrust, Ø39 × Ø54 × 1.2	1
67	101434	Camshaft Assembly	1
68	2.04.002	Location Pin Ø8 x 14	2
69	100596	O-Ring Ø12 × Ø3.5	1
70	100261	Gasket, Crankcase Cover	1
71	100726	Tube, Oil Dipstick Assembly	1
72	100268	Cover, Crankcase	1
73	1.5789.0850	Hex Flange Bolt, M8 X 50	9
74	2.11.010	Seal, Pto Oil, Ø38 × Ø58 × 9	2
75	61.030011.00	Plug, Crankcase Cover	1
76	100699	Blade Assembly, Oil Dipstick	1
77	1.308.9.5	Ball Ø9.5, Steel Check Valve	1
78	61.150004.00	Spring, Compression	1
79	61.151000.00	Pump Assembly, Oil	1
80	1.70.0616	Screw, M6 x 16, Socket Head Cap	2
81	100916	Filter, Oil	1
82	100831	Switch, Low Oil Shut-Down 0.6 Bar	1
83	1.16674.0625	Hex Small Flange Bolt, M6 x 25	4
84	101719	Base Assembly, Oil Filter With Oil Cooler And Oil Pressure Switch	1
85	102204	Clamp Ø17, Oil Hose	4
86	100942	Hose 2, Oil Line	1

SPECIFICATIONS

#	Par	t Number	Description	Qty
87	100		Hose 1, Oil Line	1
88	2.07.004		0-Ring Ø12 × Ø2.5	2
89	101723		Oil Cooler Assy, Internal Mount	1
90	_	080600.01	Air Guide, Outer, Cylinder 2	1
			Assembly	
91	1.57	789.0608	Hex Flange Bolt, M6 x 8	2
92	717.080800.01		Air Board Assy, Cylinder 2, Oil Cooler	1
93	717.050200.00		Assy, Connecting Rod	2
94	2.09	9.009	Retainer, Piston Pin, Ø17 × Ø1	4
95	100	968	Pin, Piston, 17 x 53.8 mm	2
96	101	396	Piston, 78 mm, 2.75 mm, Dish Ceramic Crown	2
97	100	784	Ring Assembly, Oil Control	2
98	717.	050302.00	Ring, Piston, 2nd	2
99	717.	050301.00	Ring, Top Piston	2
100	1.16	674.0616	Hex Small Flange Bolt, M6 x 16	1
101	2.04	1.005	Pin, Ø8X10, Location	1
102	101	478	Follower Assembly, Camshaft	1
	1	101475	Follower Pivot Assembly, Camshaft	1
	2	2.03.021.1	Washer, Governor Shaft, Ø6.4 × Ø13 × 1	4
	3	100485	Follower, Camshaft	2
	4	61.040019.01	Follower, Camshaft	2
	5	61.041001.00	Spring, Support	2
103	1.27	76.6003.1	Bearing, Roller Ø35 \times Ø17 \times 10	1
104	717.	030026.01	Plug, Npt1/8-27 Hexagon Socket	1
105	2.04	1.004	Pin, Ø12 x 20 Location	4
106	100	170	Bracket, Governor Spring	1
107	2.01	010	Bolt M8 \times 35, Exhaust Stud	4
108	717.	010003.00	Lift Strap	1
109	1.16	674.0820	Hex Small Flange Bolt, M8 x 20	2
110	2.08	3.122	Bolt, Hex Flange M10 x 1.25	2
111	100	179	Valve, Exhaust	2
112	717.	040015.00	Shim, Valve Spring	2
113	101	881	Oil Seal, Valve Stem	4
114	45.0	040003.00	Spring, Valve	4
115	45.0)40001.00	Retainer, Intake Valve	4
116		040202.00	Bracket, Rocker Arm	4
117		0.1.0816	Screw, M8 x 16 Socket Head Cap	4
118	22.040012.00		Adjusting, Lash	4
119		040200.02	Rocker Arm	4
120	100226		O-Ring, Rocker Cover	2
121	1.5789.0625		Hex Flange Bolt, M6 x 25	8
122	101880		Clamp, 100 mm	1
123	102	265	Rocker Cover Assembly, Pulse Line	1
124	21.0)40021.00	Jam Nut, M6 x 0.5 mm Pitch	4
125	1 61	.70.08	Hex Nut, Gb6170, M8	4

#	Pai	rt Number	Description	Qty
126	717.040016.00		Sleeve, Rocker Arm	4
127	2.08.086		Bolt, M8 x 1.25 Hhw Special	4
128	717.040005.00		Push Rod	4
129	45.040002.00		Valve, Intake	2
130	2.08.014		Bolt, Hex Flange M10 x 80	6
131	717.080300.02		Air Guide Assembly, Inner Cyl #2	1
132	102019		Head Assembly, Cylinder 2	1
133	717.030009.00		Gasket Assembly, Cylinder Head	2
134	45.135001.20		Clip, Clevis	1
135	717.111100.00		Choke Control Assembly, Bowden Wire	1
136	102018		Head Assembly, Cylinder 1	1
137	717.080300.01		Air Guide, Inner Cylinder 1 Assy	1
138	100270		Clamp Ø17, Breather Tube	1
139	2.15.002		Spark Plug, F6RTC	2
140	102	261	Rocker Cover Assembly, Oil Fill	1
141	102	357	Cap, Oil Fill Assembly	1
	1	2.07.001	Seal, Cap Oil Fill, Ø25.5 x Ø3.5	1
	2	101813	Cap, Oil Fill	1
142	100	338	Spring, Link Take Up	1
143	100	329	Link, Governor	1
144	2.08	3.107	Bolt, Governor Arm	1
145	2.03.019		Washer, Ø8.2 \times Ø17 \times 0.8	1
146	61.110008.00		Pin, Shaft	2
147	1.5801.0810		Bearing, Roller	2
148	1.97	7.1.08	Washer Ø8	2
149	61.110001.00		Shaft, Governor	1
150	100432		Spring, Governor	1
151	100178		Lever, Governor Arm	1
152	1.6177.06		Nut, M6 Hexagon Flange	1
153	2.11.006		Shaft Oil Seal, Ø7 \times Ø14 \times 5	1
154	717.010003.01		Lift Strap With Baffle	1
155	2.06.001		Hose Clamp, Ø9.4 × b8	4

TROUBLESHOOTING

Problem	Cause	Solution
	No fuel	Add fuel
Generator will not start	Faulty spark plug(s)	Replace spark plug(s)
Generator will not start	Unit loaded during start up	Remove load from unit
	Generator battery is dead	Recharge or replace generator battery
	Low oil level	Fill crankcase to the proper level
Generator will not start;	Low off level	Place generator on a flat, level surface
Generator starts but runs roughly	Choke in the wrong position.	Adjust choke.
	Spark plug wire loose	Attach wire to spark plug
	Out of fuel	Fill fuel tank
Generator shuts down during operation	Low oil level	Fill crankcase to the proper level. Place generator on a flat, level surface
Generator cannot supply enough power or	Generator is overloaded	Review load and adjust. See "Power Management"
overheating	Insufficient ventilation	Check for air restriction. Move to a well ventilated area
	Cable not properly connected	Check all connections
	Connected device is defective	Replace defective device
	Circuit breaker is open	Reset circuit breaker
No AC output	Faulty brush assembly	Replace brush assembly (Service Center)
	Faulty AVR (auto voltage regulator)	Replace AVR (Service Center)
	Loose wiring	Inspect and tighten wiring connections
	Other	Contact Technical Service
Generator gallops	Engine governor defective	Contact Technical Service
Demonstrate discounts to an alternative and an	Overload	Review load and adjust. See "Power Management"
Repeated circuit breaker tripping	Faulty cords or device	Check for damaged, bare or frayed wires. Replace defective device

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*

CHAMPION POWER EQUIPMENT
3 YEAR LIMITED WARRANTY

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.

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, 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

tech@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.

Champion Power Equipment, Inc. (CPE), The United States Environment Protection Agency (U.S. EPA.) and the California Air Resources Board (CARB) Emission Control System Warranty

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)

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, 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

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

Champion Power Equipment, Inc (CPE) and Environment and Climate Change Canada (ECCC) Emission Control System Warranty

Your Champion Power Equipment (CPE) engine complies with Environment and Climate Change Canada (ECCC) emission regulations.

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

CPE is pleased to explain the Emission Control Systems Warranty on your 2018 small off-road engine (SORE). New engines must be designed, built and equipped, at the time of sale, to meet ECCC regulations for small off-road engines (SORE). CPE must warrant the emission control system on your small off-road engine (SORE) for the period of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your small off-road engine (SORE).

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 labour.

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 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, CPE dealer or CPE, Santa Fe Springs, CA., USA 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
USA
Tel: 1-877-338-0999
tech@championpowerequipment.com

EMISSION CONTROL SYSTEM WARRANTY

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

Emission Control System Warranty (ECS Warranty):

1. APPLICABILITY: 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 at the time of sale with applicable regulations under the Canadian Environmental Protection Act, 1999 (CEPA 1999).
- 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 labour 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 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.
- g. 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.
- h. 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.
- i. 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, fuel line fittings, clamps, pressure relief valves, control valves, control solenoids, electronic controls, vacuum control diaphragms, control cables, control linkages, purge valves, vapour hoses, liquid/ vapour 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. 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.
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