PORTABLE INVERTER GENERATOR

2000 Starting Watts / 1700 Running Watts

MODEL NUMBER 73540i

SAVE THESE INSTRUCTIONS
Important Safety Instructions are included in this manual.
**FCC Statement**

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
   (1) This device may not cause harmful interference.
   (2) This device 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.

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

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

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**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
- Frequently Asked Questions
- Tech Bulletins
- Product Registration

— or —

Call our Customer Care Team Toll-Free at:
1-877-338-0999

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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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Introduction
Congratulations on your purchase of a Champion Power Equipment inverter 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 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
73540i

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.

**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.

**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 exhaust contains carbon monoxide, a colourless, odourless, 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.

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.

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 91.4 cm (3 ft.) of clearance on all sides to ensure adequate cooling.
Maintain at least 1.5 m (5 ft.) 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.

WARNING

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

WARNING

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

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 wire.

When storing the generator:
Store away from sparks, open flames, pilot lights, heat and other sources of ignition.

CAUTION

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

DANGER

Fuel and fuel vapours 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 allow any material to block the cooling slots.
If connected devices overheat, turn them off and disconnect them from the generator.

When operating the generator:
DO NOT exceed the generator’s running capacity.
DO NOT overload the generator.

WARNING

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

When starting engine, pull the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback. DO NOT start or stop the engine with electrical devices plugged in.

DANGER

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.
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.

**CONTROLS AND FEATURES**

Your 73540i Gasoline Powered Generator ships with the following parts:

- **Oil funnel** ................................................. 1
- **Spark plug socket** ................................. 1
- **Automotive style USB adapter**
  (2.1A and 1A ports) ................................. 1
- **Automotive style battery charge cables** ................................. 1

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**Inverter**

(1) **Carrying Handle**

(2) **Fuel Lever Vent** – Turn this valve to the “On” position to supply air to the tank.

(3) **Fuel Cap** – Remove to add fuel.

(4) **Recoil Starter** – Used to start the engine.

(5) **Spark Plug Access Cap**

(6) **Maintenance Cover** – Oil filler, air filter, and carburetor access.

(7) **Muffler**

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(1) **Oil Warning Light** – Check oil level when this light turns on. Engine will not run when indicator is lit.

(2) **Overload Indicator Light** – This light turns ON when the generator is overloaded and will cut power to the receptacles.

(3) **Output Light** – Remains ON during normal operating conditions. Shuts OFF when generator is overloaded.

(4) **Economy Control Switch**

(5) **Engine Switch**

(6) **Choke**

(7) **Fuel Valve Knob**

*These outlets are used for connecting two Champion model 73540i generators for parallel operation. A Champion model 73500i parallel kit (optional equipment) is required for parallel operation.

(8) **Parallel Operation Control***

(9) **Parallel Operation Outlets***

(10) **120 V Duplex (NEMA 5-20R)** – Use this duplex to operate 120 Volt AC, single phase, 60 Hz loads.

(11) **Circuit Breaker (Flip)** – Protects 5-20R receptacle against electrical overload when parallel running.

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

(13) **Circuit Breaker (Push button)** – Protects the generator against electrical overload.

(14) **12V DC Automotive Outlet****

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

**Add Engine Oil**

**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 the generator on a flat, level surface.
2. Loosen the cover screws and remove the maintenance cover.

**Add Engine Oil Cont’d.**

3. Remove oil fill cap/dipstick to add oil.

4. Add 0.4 L (0.4 qt.) of oil (not included) and replace oil fill cap/dipstick. DO NOT OVERFILL.

5. Check engine oil level daily and add as needed.

**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.
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 1/4 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.

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

**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 manufacturer’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.
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 cap vent lever to the “On” position.
4. Turn the fuel valve to the “On” position.
5. Pull choke lever out to the “Choke” position.

Grounding

The generator system ground connects the frame to the ground terminals on the power panel.
- The generator (stator winding) is isolated from the frame and from the AC receptacle ground pin.
- Electrical devices that require a grounded receptacle pin connection will not function if the receptacle ground pin is not functional.

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 1.5 m (5 ft.) of clearance from all combustible material. In addition to clearance from all combustible material, generators must also have at least 91.4 cm (3 ft.) 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.
Starting the Engine Cont’d.

6. Turn the engine switch to the “On” position.

7. Pull the starter cord slowly until resistance is felt and then pull rapidly.

8. As engine warms up, push the choke lever in to the “Run” position.

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 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.

**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 spark plug 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 stay running 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.

**WARNING**

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

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

**WARNING**

While charging a device do no place on the exhaust side of the generator. Extreme heat caused by exhaust can damage the device, and cause a potential fire hazard.
**Economy Control Switch**
The Economy Control switch can be activated in order to minimize fuel consumption and noise while operating the unit during times of reduced electrical output, allowing the engine speed to idle during periods of non-use. The engine speed returns to normal when an electrical load is connected. When the economy switch is off, the engine runs at normal speed continuously.

**WARNING**
For periods of high electrical load or momentary fluctuations, the Economy Control Switch should be turned OFF.

**12V DC Outlet**
The 12V DC outlet can be used with the supplied charge cable and USB charger and other commercially available 12V DC automotive style plugs. The DC output is unregulated and can damage some products. Confirm your accessory input voltage range is at least 12-24V DC. When using the DC outlet turn the Economy mode switch to the “OFF” position.

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

**Important:** The 12V DC outlet is ONLY to be used with the supplied 12V DC battery charging cable. The 12V DC output is unregulated and will damage other 12V DC products. When using the 12V DC outlet, turn the Economy mode switch to the “OFF” position.

**12V DC Outlet – Battery Charging Cont’d.**

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

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

**Stopping the Engine**
1. Turn off and unplug all electrical 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 Fuel Valve to the “OFF” position.
4. Let the engine run until fuel starvation has stopped the engine. This usually takes a few minutes.
5. Turn the engine switch to the “Off” position.
6. Allow the generator to cool down completely to room temperature.
7. Turn the fuel cap lever vent to the “Off” position after the generator has cooled down completely.

**Important:** Always ensure that the Fuel Valve and the Engine 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.
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.

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

Overload Operation
The overload indicator light will turn on when the rated load is exceeded. When the maximum load is reached, the LED will blink and cut power to the receptacles. To recover the power, shut down the engine, wait until the light turns off and restart the generator.

Parallel Operation
Two Champion model 73540i generators can be operated in parallel to increase the total available electrical power to 3000 watts. A Champion model 73500i parallel kit (optional equipment) is required for parallel operation. For kit availability, call Customer Service at 1-877-338-0999 or visit: www.championpowerequipment.com.

Detailed instructions for parallel kit installation and operation of the connected generators are provided in the parallel kit Owner’s Manual and Operating Instructions. Please note the following important requirements:
1. The two generators may be stacked one on top of the other by aligning the lower pads and upper pockets at each corner of the generators.
2. Disconnect or turn off all electrical loads from both generators.
3. The ECON switch must be in the same position on both generators.
4. Before starting the engines, connect the AC power outlet cables, the control cables and the ground cables to both generators. Follow the instructions supplied with the parallel kit.
5. Do not disconnect any cables after the engines have been started.
6. Start both engines and observe the green output indicator light on both generator panels.
7. Connect and turn on the electrical devices.

NOTE
The total electrical load must not exceed 3400 watts.

8. Follow the instructions on the previous page for turning off the generators.
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.

**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

**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. Loosen the cover screws and remove the maintenance cover.
2. Remove the oil filler cap.
3. Tilt the generator on its side and allow the oil to drain completely.
4. Add 0.4 L (0.4 qt.) of oil and replace oil fill cap/dipstick. DO NOT OVERFILL.
5. Reinstall the maintenance cover and tighten the cover screws.
6. Dispose of used oil at an approved waste management facility.

**Oil Cont’d.**

7. Carefully thread the plug into the engine.
8. Use the spark plug tool to firmly install the plug.
9. Attach the spark plug cap to the plug.
10. Reinstall the spark plug access cap, and maintenance cover.

**Spark Plugs**

1. Remove the maintenance cover.
2. Remove the spark plug cable from the spark plug.
3. Use the spark plug tool that shipped with your generator to remove the plug. Remove the spark plug access cap and insert the spark plug tool through this hole.
4. Remove the spark plug.
5. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
6. Make certain the spark plug gap is 0.6 - 0.7 mm (0.024 - 0.028 in.).

- **0.6 - 0.7 mm**
- **0.024 - 0.028 in.**
Air Filter

1. Remove the maintenance cover.
2. Locate the air filter plastic cover. Remove the screw using a Phillips head screwdriver.
3. Remove the foam element.
4. Wash in liquid detergent and water. Squeeze thoroughly dry in a clean cloth.
5. Saturate in clean engine oil.
6. Squeeze in a clean, absorbent cloth to remove all excess oil.
7. Place the filter in the assembly.
8. Reattach the air filter cover.
9. Reinstall the maintenance cover and tighten the cover screw securely.

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.

Spark Arrester Cleaning

1. Loosen M6x22 bolts to remove two pillars.
2. Remove 4 screws to remove the muffler cover assembly.
3. Loosen the spark arrester clamp, remove the spark arrester cover, and with a thin blade screwdriver remove the spark arrester.
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. Reattach spark arrester, cover assembly, and pillars.

⚠️ CAUTION

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

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 help line 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>
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<tbody>
<tr>
<td>Check oil level</td>
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<tr>
<td>Clean around air intake and muffler</td>
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<tr>
<td>Change oil</td>
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<table>
<thead>
<tr>
<th>First 5 Hours</th>
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<tbody>
<tr>
<td>Clean air filter</td>
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<table>
<thead>
<tr>
<th>Every 50 hours or every season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change oil if operating under heavy load or in hot environments</td>
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</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>
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</table>

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

<table>
<thead>
<tr>
<th>Every 3 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace fuel line</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 vapours.

**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 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. Remove the spark plug cap, then pull the recoil grip 3 times to drain the gasoline from the carburetor jets.
8. Change the engine oil.
9. Remove the spark plug and pour about a tablespoon 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 exhaust contains odourless and colourless carbon monoxide gas.

To avoid accidental or unintended ignition of your generator during periods of storage, the following precautions should be followed:
- When storing the generator for short or extended periods of time make sure that the Engine Switch and the Fuel Valve are set in the OFF position.
**Oil Use**

Use 10W-30 automotive oil.

Oil capacity is 0.4 L (0.4 qt.).

DO NOT OVERFILL.

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

**Spark Plugs**

- **OEM spark plug:** NHSP E6RTC
- **Replacement spark plug:** NGK BPR6HS or equivalent

Make certain the spark plug gap is 0.6 - 0.7 mm or (0.024 - 0.028 in.).

---

**Maintenance Valve Clearance**

- Intake: 0.10 mm (0.004 in.)
- Exhaust: 0.10 mm (0.004 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.

**Fuel**

Fuel capacity is 1.0 gal. (3.8 L). Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.

**Engine Specifications**

- Model: YF149FD-330
- Displacement: 80cc
- Type: 4-Stroke OHV
- Start Type: Recoil

**Generator Specifications**

- Model: 73540i
- Running Load: 1700 Watts
- Starting Load: 2000 Watts
- AC Load: 120 V
- Phase: Single
- Frequency: 60 Hz
- Fuel Capacity: 1.0 gal. (3.8 L)
- Gross Weight: 55.1 lb. (25 kg)
- Net Weight: 48.5 lb. (22 kg)
- Height: 16.3 in. (41.5 cm)
- Width: 13.2 in. (33.5 cm)
- Length: 19.3 in. (49 cm)

**Fuel Capacity**

Full Synthetic 5W-30

Degrees Celsius° (Outside)

- -28.9
- -17.8
- -6.7
- 4.4
- 15.6
- 26.7
- 37.8
- 48.9

Degrees Fahrenheit° (Outside)

- 20
- 0
- 20
- 60
- 80
- 100
- 120

- 5W-30
- 10W-30
- 10W-30

**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.
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<td>Screw/Washer Assembly M4x14, Green</td>
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<td>Pull Choke Assembly</td>
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Engine Parts Diagram
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<td>81.060001.00</td>
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<td>10</td>
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<td>18</td>
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<td>23</td>
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<td>Trigger Assembly</td>
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<td>26</td>
<td>81.191200.07</td>
<td>Stator Component</td>
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<td>27</td>
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<td>29</td>
<td>81.190006.01</td>
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<td>Spark Arrester</td>
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<td>37</td>
<td>81.190001.00</td>
<td>Generator Fan</td>
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<td>38</td>
<td>2.09.007</td>
<td>Circlip Ø13.5 x Ø1</td>
<td>2</td>
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<td>39</td>
<td>81.050003.00</td>
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<td>41</td>
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<td>Piston Ring Set</td>
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<td>42</td>
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<td>43</td>
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<td>Lifter, Valve</td>
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<td>81.040005.00</td>
<td>Push Rod</td>
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<td>46</td>
<td>2.15.005(E6RTC)</td>
<td>Spark Plug E6RTC</td>
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<td>47</td>
<td>4.01.027</td>
<td>Stud Bolt M6 x 27</td>
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<td>48</td>
<td>1.845.4817</td>
<td>Tapping Screw</td>
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<td>49</td>
<td>81.081300.00</td>
<td>Muffler Protector Assembly, Right</td>
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<td>81.081200.00</td>
<td>Muffler Protector Assembly, Middle</td>
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<td>51</td>
<td>1.6175.06.3</td>
<td>Nut M6</td>
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<td>52</td>
<td>81.101100.00</td>
<td>Muffler</td>
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<td>53</td>
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<td>54</td>
<td>81.081100.00</td>
<td>Muffler Protector, Side</td>
<td>1</td>
</tr>
</tbody>
</table>
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<td></td>
<td>Choke in the wrong position.</td>
<td>Adjust choke</td>
</tr>
<tr>
<td></td>
<td>Spark plug wire loose</td>
<td>Attach wire to spark plug</td>
</tr>
<tr>
<td>Generator shuts down during operation</td>
<td>Out of fuel</td>
<td>Fill fuel tank</td>
</tr>
<tr>
<td></td>
<td>Low oil level</td>
<td>Fill crankcase to the proper level</td>
</tr>
<tr>
<td></td>
<td>Place generator on a flat, level surface</td>
<td></td>
</tr>
<tr>
<td>Generator cannot supply enough power or overheating</td>
<td>Generator is overloaded</td>
<td>Review load and adjust. See &quot;Power Management&quot;</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>Cable not properly connected</td>
<td>Check all connections</td>
</tr>
<tr>
<td></td>
<td>Connected device is defective</td>
<td>Replace defective device</td>
</tr>
<tr>
<td></td>
<td>Digital circuit breaker is open</td>
<td>Restart engine</td>
</tr>
<tr>
<td></td>
<td>Loose wiring</td>
<td>Inspect and tighten wiring connections</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>Contact the help line</td>
</tr>
<tr>
<td>Repeated circuit breaker tripping</td>
<td>Overload</td>
<td>Review load and adjust. See &quot;Power Management&quot;</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**

**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 2017 small off-road engine and engine powered equipment. In California, new,
small off-road engines and new equipment that use small off-engines 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 non-road engines. CPE warrants the
emission control system on your small off-road engine 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 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 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, 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 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 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 (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 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