

OWNER'S MANUAL & OPERATING INSTRUCTIONS



4000 PSI / 4.0 GPM Trigger Start[™] Portable **PRESSURE WASHER**



MODEL NUMBER

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

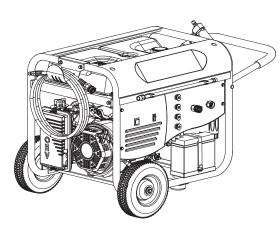
MADE IN CHINA REV 71321-20130513 10006 Santa Fe Springs Road Santa Fe Springs CA 90670 USA / 1-877-338-0999 www.championpowerequipment.com



WARNING:

The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

*We are always working to improve our products. Therefore, the enclosed product may differ slightly from the image on the cover.



4000 PSI / 4.0 GPM Trigger Start[™] Portable **PRESSURE WASHER**

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INTRODUCTION

Introduction

Congratulations on your purchase of a Champion Power Equipment pressure washer. CPE designs and builds pressure washers to strict specifications. With proper use and maintenance, this pressure washer will bring years of satisfying service.

Pressure Washer

This unit is a gasoline engine driven pressure washer. It is designed for use in cleaning with or without detergent and is suitable for decks, patios, house siding, vehicles, lawn furniture, barbecue grills, gardening tools and more.

Accessories

Champion Power Equipment manufactures and sells accessories designed to help you get the most from your purchase. To find out more about our accessories, 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.

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
	71321
	Serial Number
	Date of Purchase
	Purchase Location
For O	Dil 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.

\land DANGER

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

MWARNING

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 pressure washer, we can help. Please call our help line at **1-877-338-0999**

SAFETY RULES

\land WARNING

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

\land WARNING

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

\land DANGER

Engine 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 pressure washer outdoors only in a well ventilated area.

DO NOT operate the pressure washer inside any building, including garages, basements, crawlspaces and sheds, enclosure or compartment, including the pressure washer 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 pressure washer indoors **CAN KILL YOU IN MINUTES**.

\land 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 WARNING

Sparks can result in fire or electrical shock.

When servicing the pressure washer:

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.

A WARNING

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

DO NOT touch hot surfaces. Avoid contact with hot exhaust gases. Allow equipment to cool before touching. Maintain at least three feet of clearance on all sides to ensure adequate cooling. Maintain at least five feet of clearance from combustible materials.

DO NOT let water in the pump freeze.

See Storage section in the manual for instructions regarding winter storage.

If water has frozen in the pressure washer, thaw the pressure washer in a warm room before starting. DO NOT pour hot water on or into the pump; internal parts will be damaged and your warranty will be voided.

A WARNING

NEVER spray flammable liquids or use pressure washer in areas containing combustible dust, liquids, or vapor.

NEVER operate this machine in a closed building or in or near an explosive environment.

- DO NOT remove fuel tank cap or fill fuel tank while engine is hot or running (allow engine to cool two minutes before refueling). Always fill the tank slowly.
- Never disconnect the high pressure discharge hose from the machine while the system is pressurized.

\land 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 pressure washer 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 pressure washer at the gas station. Use an approved container to transfer the fuel to the pressure washer.

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 pressure washer:

DO NOT attempt to start a damaged pressure washer.

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 pressure washer is resting firmly on level ground.

When operating the pressure washer:

DO NOT move or tip the pressure washer during operation.

DO NOT tip the pressure washer or allow fuel or oil to spill.

When transporting or servicing the pressure washer:

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 pressure washer:

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

CAUTION

NEVER run the unit dry.

Be sure the water supply is completely turned on before operating the unit.

\land 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.

A DANGER

Keep clear of nozzle.

DO NOT point the pressure wand at a person, an animal or yourself.

Always wear safety glasses or goggles and protective equipment (hearing protection, gloves, rubber boots, protective clothing) when operating or performing maintenance.

• Never put hand or fingers over the spray tip while operating the unit.

• Never try to stop or deflect leaks with any body part.

• Always engage the trigger safety latch in the safe position when spraying is stopped even if only for a few moments.

! CAUTION

Improper treatment or use of the pressure washer can damage it, shorten its life and void your warranty.

Use the pressure washer only for intended uses. Operate only on level surfaces.

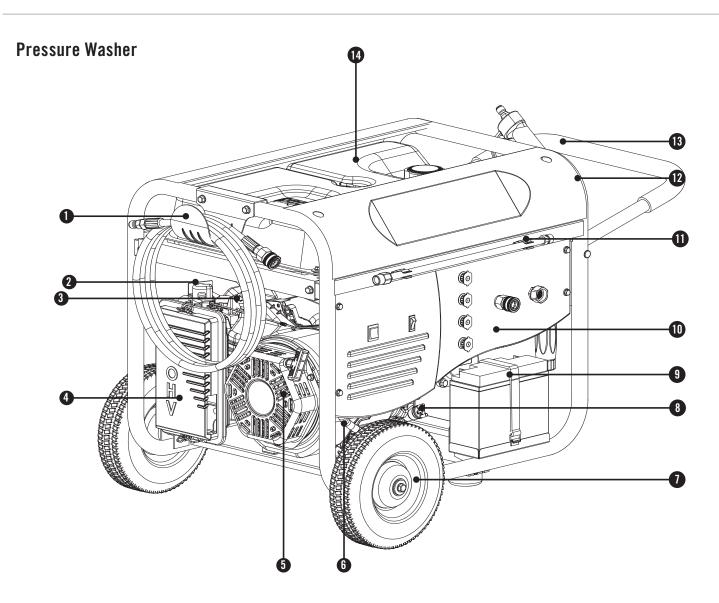
DO NOT expose pressure washer to excessive moisture, dust, or dirt.

DO NOT allow any material to block the cooling slots. DO NOT use the pressure washer if:

- Equipment sparks, smokes or emits flames
- Equipment vibrates excessively

CONTROLS AND FEATURES

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

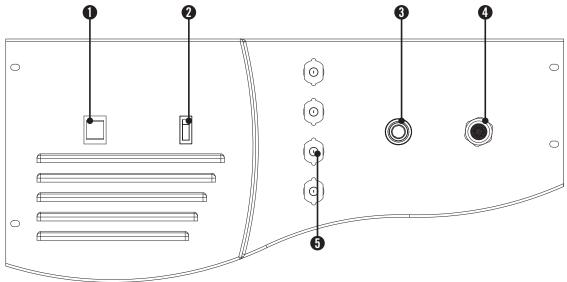


- (1) High Pressure Hose Hanger Used to hold high pressure hose when not in use.
- (2) Choke
- (3) Fuel Valve Knob
- (4) Air Filter Protects the engine by filtering dust and debris from the intake air.
- (5) **Recoil Starter** Used to start the engine.
- (6) Quick Drain Oil Draining System– Used to quickly drain engine oil.
- (7) 10 in. Never Flat Tires

- (8) Oil Filler Cap Check and fill engine oil level.
- (9) Battery
- (10) Utility Panel See Power Panel Section.
- (11) Wand Holder Used to hold wand when not assembled and in use.
- (12) Gun Holder Used to hold gun when not assembled and in use.
- (13) Handle
- (14) Fuel Tank 5.9 gal. (22.4 L)

CONTROLS AND FEATURES

Utility Panel



- (1) Ignition Switch Used to start or stop the pressure washer.
- (2) Trigger Start[™] Switch Automatic ON/OFF technology.
- (3) **Quick Connect Hose Output** Used to easily connect and disconnect high pressure hose.
- (4) Garden Hose Input Used to connect water supply to unit.
- (5) **Quick Connect Nozzle Storage** Used to store quick connect nozzles when not in use.

Trigger Start[™] Operation

This pressure washer is equipped with a patent pending system that allows the operator to start and stop the engine using the pressure washer gun. When working at any distance from the machine, just pull the trigger to start the engine and release the trigger to stop the engine. There is no need to return to the machine to start and stop the engine.

To activate the Trigger Start feature:

- 1. Connect and turn "ON" the water supply.
- 2. Make sure the fuel valve is in the "ON" position.
- 3. Move the Ignition Switch to the "ON" position.
- 4. Move the Trigger Start Switch to the "Enable" position.

Only when the Trigger Start feature is active can the engine can be started or stopped using the trigger of the gun.

To start the engine using the Trigger Start feature:

- 1. Pull and hold the trigger of the gun.
- 2. The engine will attempt to start approximately 3 seconds after water begins to flow out of the gun.

NOTE

There is no need to manually choke the engine. The Engine Control Module automatically chokes the engine during startup. If the engine fails to start on the first attempt, it will automatically try again up to six (6) times, without need of extra pulling of the trigger.

To stop the engine using the Trigger Start feature:

- 1. Release the trigger of the gun
- 2. The engine will turn "OFF" approximately 15 seconds after the trigger is released.

NOTE

If the trigger is released and then pulled before 15 seconds has elapsed, the engine will continue to run. This allows the unit to continue running while the operator stops washing momentarily to move the unit or the object being washed. **Note:** When the Trigger Start switch is in the "disabled" position, the gun trigger will not start or stop the engine. The water supply must be connected and turned "ON" for the Trigger Start feature to function.

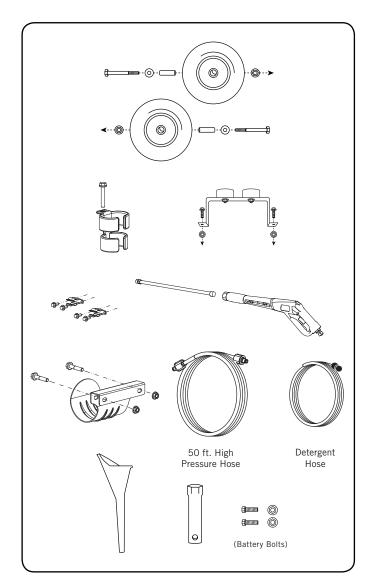
Note: Extension hoses may be added without affecting this feature.

Parts Included

Your 71321 Gasoline Powered Pressure Washer ships with the following parts:

Wheel Kit

_	10 in. Wheel
_	Flange Bolt (M10x120 for Wheel) 2
_	Bushing
_	Flat Washer Ø10
_	Nut (M10)
_	Support Leg w/Vibration Mounts
_	Flange Bolt (M8x16 for Support Leg)
_	Nut (M8)
Gu	ın Assembly
_	Pressure Gun
_	Wand
_	Wand Holder (Clamp)
_	Flange Bolt (M5x12 for Clamps)
_	Gun Holder
_	Flange Bolt (M8x50 for Gun Holder)
Ho	ISES
_	50 ft. High Pressure Hose
_	Detergent Hose
_	Hose Hanger
_	Flange Bolt (M8x45 for Pothook)2
Ot	her
_	Oil Funnel
_	Spark Plug Socket
_	Cap Screw (M5x10 for Battery Terminals) 2
_	Nut (M5 for Battery Terminals) 2



Your pressure washer 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 pressure washer, call our help line at 1-877-338-0999. Please have your serial number and model number available.

Remove the Pressure Washer from the Shipping Carton

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

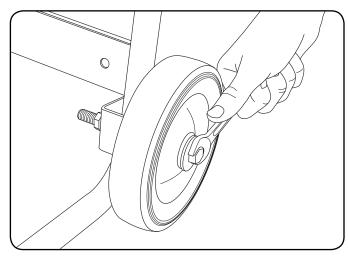
Install the Wheel Kit

! CAUTION

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

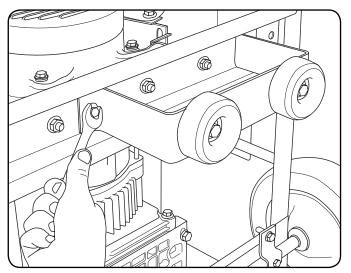
You will need the following tools to install the wheels:

- 17 mm wrench OR adjustable wrench (not included)
- Socket wrench with a 16 mm socket (not included)
- Pliers (not included)
- 1. Before adding fuel and oil, tip the pressure washer on it's side.
- 2. Slide the M10x120 wheel bolt through the washer, sleeve and wheel.
- 3. Slide the bolt through the mount point on the frame.
- 4. Fasten securely with the M10 nut.
- 5. Repeat steps 2-4 to attach the second wheel.



Install the Support Leg

- 1. Attach the support leg to the pressure washer frame with cap screws (M8x16) and nuts (M8).
- 2. Tip the pressure washer slowly so that it rests on the wheels and support leg.

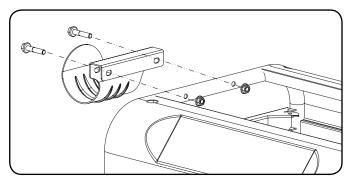


Connect the Battery

- 1. Remove the protective cover from the red (+) lead on the battery.
- Attach the red (+) lead to the red (+) terminal on the battery with the cap screw (M5x10) and secure with the lock washer (M5).
- 3. Repeat steps 1-2 for the black (-) battery lead.

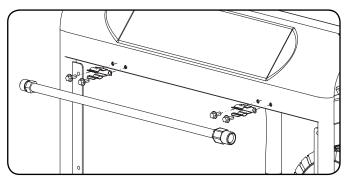
Attach the Hose Hanger

- 1. Slide Hose Hanger over the top of frame (recoil side).
- 2. Align Hose Hanger with mounting points on frame.
- 3. Slide the bolt (M8x45) through the mount point on the frame.
- 4. Fasten securely with the M8 nut.



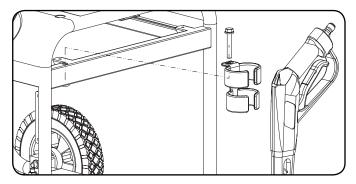
Attach the Wand Holder (Clamps)

- 1. Align Clamp with mounting points on frame (power panel side).
- 2. Slide the bolt (M5x12) through the mount point on the frame.
- 3. Fasten securely.
- 4. Repeat steps 1-3 for second clamp.



Attach the Gun Holder

- Align Gun Holder with mounting point on frame (Handle side).
- 2. Slide the bolt (M8x50) through the mount point on the frame.
- 3. Fasten securely.



Install the Hoses

Attach the Pressure Gun

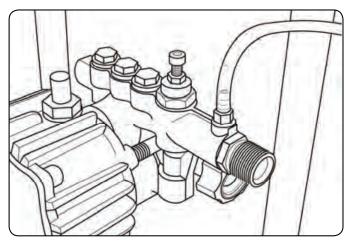
- 1. Attach the wand with nozzle to the gun.
- 2. Connect the high pressure hose to the outlet connection on the utility panel.
- 3. Connect the other end of the high pressure hose to the gun.

Connect to Garden Hose

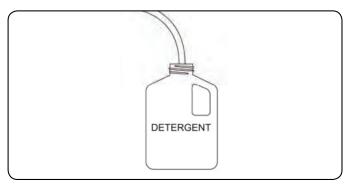
Secure a garden hose (not included) to the inlet connection on the utility.

Attach the Detergent Hose

Connect the clear detergent hose to the brass barb on the pumps outlet connector.



Place the filter end of the detergent hose into pressure washer detergent (not included).



NOTE

Detergents can only be applied at low pressure setting.

ASSEMBLY

Add Engine Oil

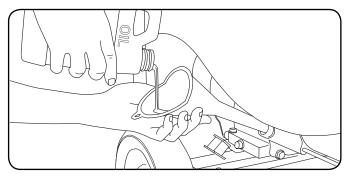
! CAUTION

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 pressure washer as a result of failure to follow these instructions will void your warranty.

NOTE

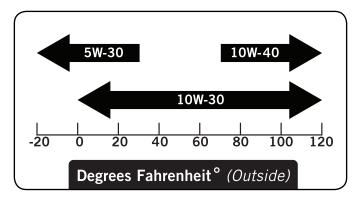
The recommended oil type is 10W-30 automotive oil.

1. Place the pressure washer on a flat, level surface.



- 2. Remove oil fill cap/dipstick to add oil.
- 3. Add up to 1.16 qt. (1.1 L) of oil and replace oil fill cap/dipstick. DO NOT OVERFILL.

Add Engine Oil Cont'd.



4. 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

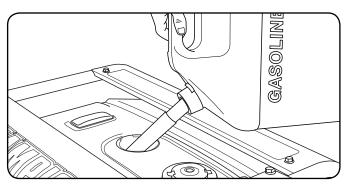
Check oil often during the break-in period. Refer to the Maintenance section for recommended service intervals.

NOTE

The pressure washer engine shaft has a sealed, pre-lubricated ball bearing that requires no additional lubrication for the life of the bearing.

Add Fuel

- 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 ¼ in. (0.64 cm) of space left in the tank is required for fuel expansion, more than ¼ in. (0.64 cm) is recommended. Fuel can be forced out of the tank as a result of expansion if it is overfilled, and can affect the stable running condition of the product. When filling the tank, it is recommended to leave enough space for the fuel to expand.



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

! CAUTION

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

Do not mix oil and gasoline.

Fill tank to approximately ¼ in. (0.64 cm) below the top of the tank to allow for fuel expansion. DO NOT pump gas directly into the pressure washer at the gas station. Use an approved container to transfer the fuel to the pressure washer. 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.

A 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

Our engines work well with 10% or less ethanol blend fuels. When using blended fuels there are some issues worth noting:

- Ethanol-gasoline blends can absorb more water than gasoline alone.
- These blends can eventually separate, leaving water or a watery goo in the tank, fuel valve and carburetor.
- With gravity-fed fuel supplies, this compromised fuel can be drawn into the carburetor and cause damage to the engine and/or potential hazards.
- There are only a few suppliers of fuel stabilizer that are formulated to work with ethanol blend fuels.
- Any damages or hazards caused by using improper fuel, improperly stored fuel, and/ or improperly formulated stabilizers, are not covered by manufacture's warranty.

It is advisable to always shut off the fuel supply, run the engine to fuel starvation and drain the tank when the equipment is not in use for more than 30 days.

Pressure Washer Location

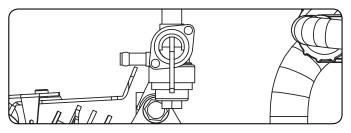
This pressure washer must have at least five feet of clearance from combustible material. Leave at least three feet of clearance on all sides of the pressure washer to allow for adequate cooling, maintenance and servicing. Place the pressure washer in a well ventilated area. DO NOT place the pressure washer near vents or intakes where exhaust fumes could be drawn into occupied or confined spaces. Carefully consider wind and air currents when positioning pressure washer.

Before Starting the Engine

- 1. Turn the water supply ON.
- 2. Pull the trigger on the pressure gun to purge all air from the pump and hose. This may take several minutes.
- 3. Do not start the engine until a steady stream of water is flowing from the nozzle.

Starting the Engine

- 1. Make certain the pressure washer is on a flat, level surface.
- 2. Connect and turn "ON" the water supply.
- 3. Turn the Fuel Valve to the "ON" position.



- 4. Press the Ignition Switch to "ON".
- 5. Move the choke lever to the "CHOKE" position
- 6. ELECTRIC START: 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. RECOIL START: Pull the starter cord slowly until resistance is felt and then pull rapidly.
- 8. Do not over-choke. As as soon as engine starts, move the choke lever to the "RUN" position.

NOTE

If the engine does not start after 2 pulls, relieve pump pressure by pulling the trigger on the pressure washer gun. Starting the Engine Cont'd.

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 run make certain that the pressure washer 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.

To activate the Trigger Start feature:

- 1. Make certain the pressure washer is on a flat, level surface.
- 2. Connect and turn "ON" the water supply.
- 3. Make sure the fuel valve is in the "ON" position.
- 4. Move the Ignition Switch to the "ON" position.
- 5. Move the Trigger Start Switch to the "Enable" position.

Only when the Trigger Start feature is active can the engine can be started or stopped using the trigger of the gun.

To start the engine using the Trigger Start feature:

- 1. Pull and hold the trigger of the gun.
- 2. The engine will attempt to start approximately 3 seconds after water begins to flow out of the gun.

Note: When the Trigger Start switch is in the "disabled" position, the gun trigger will not start or stop the engine. The water supply must be connected and turned "ON" for the Trigger Start feature to function.

Note: Extension hoses may be added without affecting this feature.

NOTE

There is no need to manually choke the engine. The Engine Control Module automatically chokes the engine during startup. If the engine fails to start on the first attempt, it will automatically try again up to six (6) times, without need of extra pulling of the trigger.

Distance from Cleaning Surface

The distance between the spray nozzle and the cleaning surface affects the impact force of the water. The impact force of the water increases as the nozzle is moved closer to the surface. You can vary the impact force by controlling

- 1. The nozzle's fan pattern.
- 2. The nozzle's angle to the cleaning surface.

3. The nozzle's distance from the cleaning surface.

Never use a narrow high impact stream on a surface that is susceptible to damage. Avoid spraying windows with a narrow high impact stream or turbo nozzle. Doing so may break the glass.

- 1. Before triggering the gun, select a nozzle with a wide fan pattern.
- Place the nozzle approximately 4-5 feet away from the cleaning surface. Then hold the nozzle at a 45° degree angle to the cleaning surface. Trigger the gun.
- Vary the fan pattern spray angle and the distance to the cleaning surface until optimum cleaning efficiency is achieved without damaging the surface.

High Pressure Wash

! CAUTION

Always engage the trigger safety latch when the unit is not in use.

The trigger safety latch prevents the gun from being triggered accidentally. Push the latch fully down to engage it.

Your unit is equipped with a quick connect nozzle port. Choose the appropriate nozzle tip for the job you are performing.

CAUTION

The narrow high impact spray can damage some surfaces.

A wide fan pattern distributes the impact of the water over a larger area resulting in excellent cleaning action with reduced risk of surface damage. Clean large surface areas quickly using a wide fan pattern.

Thermal Relief Valve (TRV)

This pressure washer uses a pump that is equipped with an automatic thermal relief valve. The thermal relief valve will automatically open after approximately 2 minutes passing, without the pulling of the gun trigger, while the engine is running. Running the engine and not pulling the trigger causes the water temperature inside the pump to heat up. When the temperature exceeds 140° F (60° C), or after approximately 2 minutes of nongun use, the thermal relief valve automatically activates. When the valve is activated, it opens to allow fresh/cool water flow into the pump and hot water to escape. As a result of the valve opening, hot water inside the pump will spray out through the Thermal Relief Valve. When the pump cools, the valve automatically closes.

() CAUTION

Water leaving the valve and/or gun after the valve has become activated may be hot. Make sure the pressure washer is in a location that is not sensitive to hot water, and has a clearance space around it of a minimum distance of 3 feet. DO NOT point the gun at any animal, human, or surface to avoid any damage and/or injury caused by hot and/or pressurized water

NOTE

It is recommended that the inlet water temperature not exceed 104° F (40° C).

OPERATION

Low Pressure Wash

Detergent Use

The use of detergents can dramatically reduce cleaning time and assist in the removal of difficult stains. Many detergents are customized for pressure washer use on specific cleaning tasks. Pressure washer detergents are as thick as water. Using thicker detergents – like dish soap – will clog the chemical injection system.

NOTE

Use only detergents specially formulated for pressure washers.

You can effectively clean surfaces by combining the chemical action of detergents with high pressure rinses. On vertical surfaces, apply the detergent starting at the bottom and work your way upward. This method prevents the detergent from sliding down and causing streaks. Begin high pressure rinsing at the bottom and work your way upward. On particularly tough stains, use a brush in combination with detergents and high pressure rinsing.

System Flush

After using detergents, flush the suction system by placing the detergent suction tube into a bucket of clean water.

WARNING

NEVER turn the water supply off before turning the engine/motor off.

Depressurize System

To depressurize, turn engine/motor off, turn water supply off and squeeze gun trigger 2-3 times.

WARNING

NEVER disconnect the high pressure discharge hose from the machine while the system is pressurized.

To reduce the risk of bodily injury or property damage, always follow this procedure whenever spraying is stopped, when work is completed, and before checking or repairing any part of the system.

- 1. Engage the trigger safety latch.
- 2. Turn the unit off.
- 3. Remove the ignition cable from the spark plug.
- 4. Shut off the water supply.
- 5. Disengage the trigger safety latch and trigger the gun to relieve pressure.
- 6. Re-engage the trigger safety latch.
- Before overnight storage, long term storage, or transporting unit, disconnect the water supply and turn off the fuel supply valve.

Operating Tips

! CAUTION

Never operate your pressure washer without water.

! CAUTION

Never connect your pressure washer to a hot water supply.

Connecting your pressure washer to a hot water source will significantly reduce the life of the pump and will void your warranty.

! CAUTION

Running the unit for more than two minutes without spraying water causes heat to build up in the pump.

In the event that the pump gets too hot, a thermal relief valve will open to release the hot water. Running the unit without spraying water can damage pump components and will void your warranty.

Stopping the Engine

- 1. Turn the Fuel Valve to the "OFF" position.
- 2. Let the engine run until fuel starvation has stopped the engine. This usually takes a few minutes.
- 3. Press the ignition switch to the "OFF" position.
- 4. Depressurize system.
- 5. Turn off and unplug all hoses. Never start or stop the pressure washer unless the water supply is turned on.

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.

To stop the engine using the Trigger Start feature:

- 1. Release the trigger of the gun
- 2. The engine will turn "OFF" approximately 15 seconds after the trigger is released.
- 3. Press the Trigger Start switch to the "Off" position.
- 4. Press the engine switch to the "Off" position.
- 5. Rotate the fuel valve to the "Off" position.
- 6. Depressurize system.
- 7. Turn off and unplug all hoses. Never start or stop the pressure washer unless the water supply is turned on.

NOTE

If the trigger is released and then pulled before 15 seconds has elapsed, the engine will continue to run. This allows the unit to continue running while the operator stops washing momentarily to move the unit or the object being washed.

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 31/2% for every 1000 feet of elevation above sea level. This is a natural trend and cannot be changed by adjusting the engine. At high altitudes increased exhaust emissions can also result due to the increased enrichment of the air fuel ratio. Other high altitude issues can include hard starting, increased fuel consumption and spark plug fouling. To alleviate high altitude issues other than the natural power loss, Champion Power Equipment can provide a high altitude carburetor main jet. The alternative main jet and installation instructions can be obtained by contacting Customer Support. Installation instructions are also available in the Technical Bulletin area of the Champion Power Equipment internet site.

The part number and recommended minimum altitude for the application of the high altitude carburetor main jet is listed in the table below.

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

Carburetor Code	Main Jet	Part Number	Altitude
P27-3-H	Standard	46.131017.20.H	
Р27-3-П	Altitude	46.131017.20.01.H	
P27-3-R	Standard	46.131017.20.R	5000 Feet
P2/-3-K		46.131017.20.01.R	(1524 Meters)
P27-3-Z	Standard	46.131017.20.Z	
F27-3-Z	Altitude	46.131017.20.01.Z	

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.

MAINTENANCE AND STORAGE

The owner/operator is responsible for all periodic maintenance.

A WARNING

Never operate a damaged or defective pressure washer.

MWARNING

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 pressure washer.

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.

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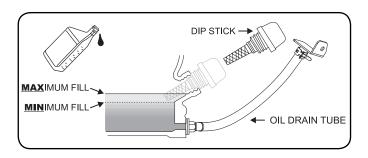
Change oil when the engine is warm. Refer to the oil specification to select the proper grade of oil for your operating environment.

- 1. Remove oil fill cap/dipstick.
- 2. Use pliers to slide the spring clamp down the oil drain hose and pull the hose off the plug bracket.
- Point the hose into a drain pan and allow the oil to drain completely. Note: The hose end must be lower than the engine base to allow the oil to drain.
- 4. Replace oil drain hose onto plug bracket and slide spring clamp back into position.
- 5. Add 1.16 qt. (1.1 L) of oil and replace oil fill cap/dipstick. DO NOT OVERFILL.
- 6. Dispose of used oil at an approved waste management facility.

Oil Cont'd.

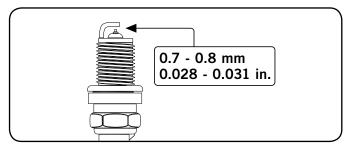
NOTE

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



Spark Plugs

- 1. Remove the spark plug cable from the spark plug.
- 2. Use the spark plug tool that shipped with your pressure washer to remove the plug.
- 3. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
- 4. Make certain the spark plug gap is 0.7 0.8 mm or (0.028 0.031 in.).



- 5. Refer to the spark plug recommendation chart when replacing the plug.
- 6. Carefully thread the plug into the engine.
- 7. Use the spark plug tool to firmly install the plug.
- 8. Attach the spark plug wire to the plug.

Air Filter

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

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

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 schedule below.

Service your pressure washer 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 maintenance needs.

Every 8 hours or daily					
Check oil level					
Clean around air intake and muffler					
First 5 Hours					
Change oil					
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					
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.

Pressure Washer Maintenance

Make certain that the pressure washer 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 pressure washer.

Use a damp cloth to clean exterior surfaces of the pressure washer.

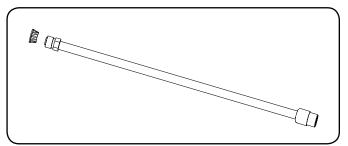
Use a soft bristle brush to remove dirt and oil.

Use an air compressor (25 PSI) to clear dirt and debris from the pressure washer.

Inspect all air vents and cooling slots to ensure that they are clean and unobstructed.

Cleaning Spray Nozzle

Detach the quick connect nozzle from the wand. Use a small wire rod (paper clip) to loosen up any particles in the quick connect nozzle and flush with water.



Storage

For short and long-term storage, please follow these guidelines.

NOTE

Ignition switch should be in the "OFF" position while pulling the recoil cord, and performing storage maintenance steps.

Engine Stored for Less than 30 Days

- 1. Allow the engine to cool completely before storage.
- 2. Clean engine according to the Maintenance section.
- 3. To extend the fuel storage life add a properly formulated fuel stabilizer to the tank.
- 4. Ensure the fuel valve is in the "OFF" position.

Engines Stored for Over 30 Days

- 1. Add a properly formulated fuel stabilizer to the tank.
- 2. Run the engine for a few minutes so the treated fuel cycles through the fuel system and carburetor.
- 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. The engine needs to cool completely before cleaning and storage.
- 6. Clean the engine according to the maintenance section.
- 7. Change the oil.
- 8. Remove the spark plug and pour about 1/2 ounce of oil into the cylinder. Crank the engine slowly to distribute the oil and lubricate the cylinder.
- 9. Reattach the spark plug.

\land DANGER

Engine exhaust contains odorless and colourless carbon monoxide gas.

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

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

Battery

This product is equipped with an automatic battery charging circuit. The battery will receive charging voltage when the engine is running. The battery will maintain a proper charge if the unit is used on a regular basis (about once every two weeks). If it is used less frequently, the battery should be connected to a trickle charger or battery maintainer to keep the battery properly charged. If the battery is not able to start the engine, it can be started by manually pulling the engine recoil cord. If the battery voltage is extremely low, the charging circuit may not be able to re-charge the battery. In this case, the battery must be connected to a standard automotive style battery charger for recharging before it can be used.

Charge the Battery

For pressure washers equipped with batteries for electric starting, proper battery maintenance and storage should be followed. An automatic battery charger 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.
- Disconnect the black/negative lead from the black/ negative terminal on the battery and store the cap screw (M5x10) and lock washer (M5).
- 3. Repeat steps 1-2 for the red/positive battery lead.
- 4. Store the battery in a cool, dry place.

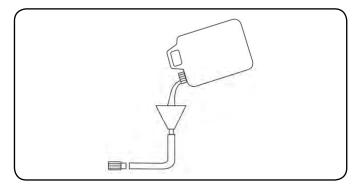
Pressure Washer Storage

- 1. Allow the pressure washer to cool completely before storage.
- 2. Turn off the fuel supply at the fuel valve.
- 3. Clean the pressure washer according to the instructions in the Maintenance section.
- 4. Store the unit in a clean, dry area out of direct sunlight.

Winter Storage

Protect your pressure washer parts from freezing.

- 1. Apply all storage instructions from previous sections.
- 2. Make sure pressure washer hose is free of all water before storing for winter.
- 3. In order to prevent the pump from freezing you will need to insert RV antifreeze.
- 4. You will need approximately 6 ounces of RV Antifreeze, a funnel, and approximately 30 cm (12 in.) of garden hose or equivalent. See diagram below.



5. Pour the antifreeze into the funnel, then pull on the engine recoil starter to create suction in the pump housing. Pull the recoil several times until antifreeze comes out of the pump outlet.

SPECIFICATIONS

Engine Specifications

-	Model									YF1	88	8FD-22	1
_	Displacement .			,								389c	С

Pressure Washer Specifications

- Fuel Capacity
 5.9 gal. (22.4 L)

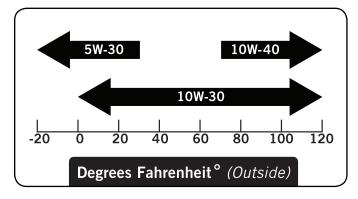
Fuel

Fuel capacity is 5.9 gal. (22.4 L). Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.

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Use 10W-30 automotive oil. Oil capacity is up to 1.16 qt. (1.1 L). DO NOT OVERFILL.

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



Spark Plugs

OEM spark plug: NHSP F6RTC

Replacement spark plug: NGK BPR6ES or equivalent Make certain the spark plug gap is 0.7 - 0.8 mm or (0.028 - 0.031 in.).

Maintenance Valve Clearance

- Intake: 0.13 - 0.17 mm (0.005 - 0.007 in.)

Exhaust: 0.18 – 0.22 mm (0.007 – 0.009 in.)
 Note: Tech bulletin regarding the valve adjustment procedure is on www.championpowerequipment.com.

TROUBLESHOOTING

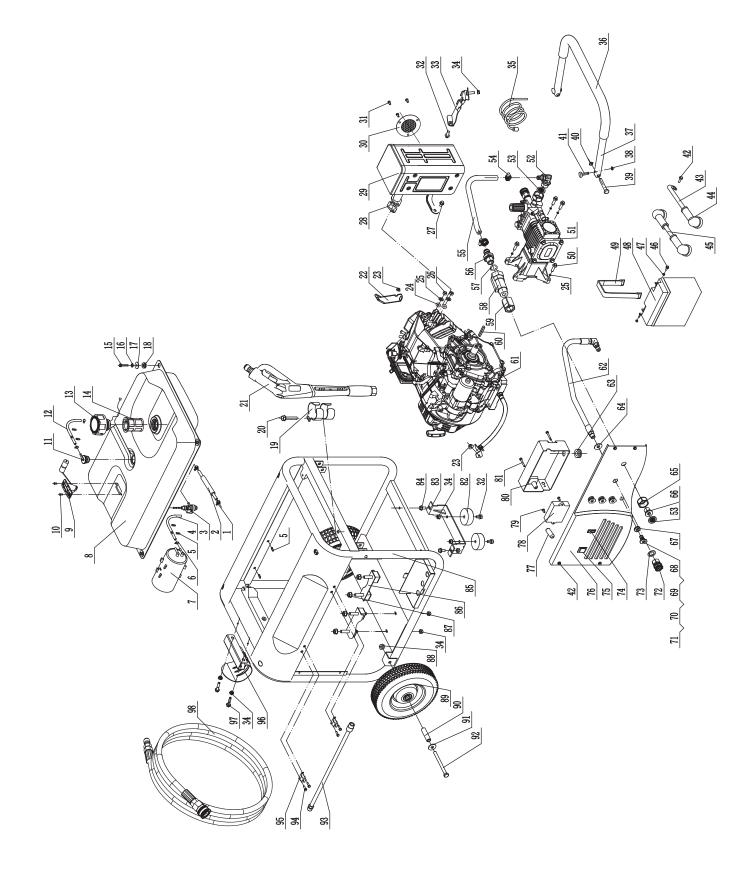
Problem	Cause	Solution
Pressure washer will not start	No fuel	Add fuel
	Faulty spark plug	Replace spark plug
Pressure washer will not start; Pressure washer starts but runs roughly	Low oil level	Fill crankcase to the proper level Place pressure washer on a flat, level surface
	Choke in the wrong position	Adjust choke
	Spark plug wire loose	Attach wire to spark plug
Pressure washer gallops	Engine governor defective	Contact the help line
Unit does not reach high pressure	Water supply is restricted	Check hoses for leaks, blockage, kinks
	Garden hose is too small	Replace with 5/8 in. garden hose or larger
	Garden hose inlet filter is clogged	Remove garden hose, clean filter and rinse out
	Not enough inlet water	Turn garden hose water on full force
Spray pressure varies from high to low	Poor inlet water supply	Turn garden hose water on full force. Check hose for leaks, blockage, or kinks
	Garden hose inlet filter is clogged	Remove garden hose, clean filter and rinse out
	Spray nozzle is obstructed	Remove particles with small wire rod (see maintenance section in manual)
	Pump is sucking air	Check all hoses and fittings, make sure they are securely tightened down and fastened. Turn off engine and purge pump by squeezing trigger gun until a steady stream of water flows
Detergent wash is not functioning	Detergent is too thick	Dilute detergent
properly	Wand is on high pressure setting	Detergent only works on a low pressure setting
	Detergent hose is not connected to the pump housing	Check connection. See diagram on Page 10
	Spray nozzle is obstructed	Clean nozzle and remove debris
	Filter on detergent hose is clogged	Clean with warm water or replace
	Chemical Injector valve (inside pump) partially blocked or stuck	Quickly pull and release the gun trigger 4-5 time to clear the chemical injector valve
Garden hose connection leaks	Loose fittings	Tighten
	Missing/worn-out rubber washer	Replace rubber washer
Spray wand leaks	Spray wand not properly attached	Tighten all connections
Pressure Washer is difficult to start using Recoil/Electric Start Pressure Washer will not start using Recoil/Electric Start	Stuck EZ-Start Valve inside Pump	Pull the Gun Trigger while starting the Pressure Washer Contact Tech Support if the Pressure Washer continues to build pressure during starting

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

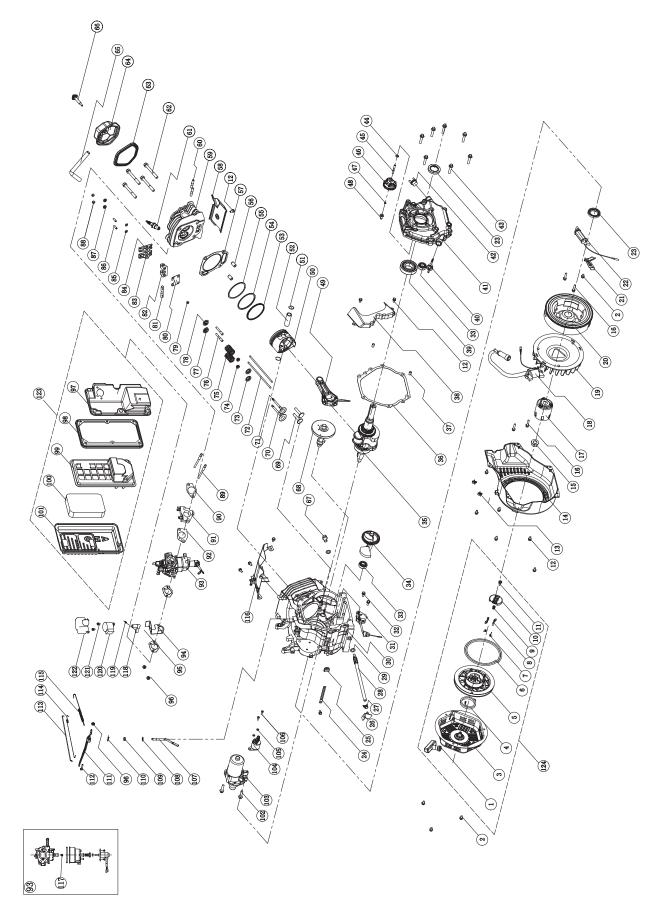
Parts Diagram



#	Part Number	Description	Qty
1	2.06.007	Clamp	2
2	152.070011.07	Pipe,Fuel(7.68in)	1
3	122.070400.03	Fuel Cock	1
4	152.070013.02	Pipe,Air Cleaner	1
5	2.05.001	Clamp	6
6	2.06.006	Clamp	3
7	152.070700.01	Carbon Canister	1
8	152.071000.10.48	Fuel Tank	1
9	152.072000.02	Fuel Meter Assembly	1
10	1.819.0510	Screw M5×10	2
11	24.070800.00	Reversal Valve	1
12	152.070014.04	Pipe,Reversal Valve	1
13	24.070100.00	Fuel Tank Cap	1
14	23.070301.00	Fuel Filter	1
15	1.5789.0620.2	Flange Bolt M6×20	4
16	1.93.06	Spring Washer Ø6	4
17	2.03.004	Washer Ø6	4
18	122.070015.01	Mount Vibration, Fuel Tank	4
19	254.252001.00	Shelf,Gun	1
20	1.5789.0850	Flange Bolt M8×50	1
21	255.252100.00	Handle,Gun	1
22	45.090006.20	Holder,Air Cleaner	1
23	1.6177.1.06	Nut M6	2
24	1.848.08	Washer Ø8	2
25	1.93.08	Spring Washer Ø8	6
26	1.6175.08	Nut M8	2
27	1.16674.0812	Flange Bolt M8×12	1
28	46.100001.07	Muffler Gasket	1
29	46.101000.09	Muffler Assembly	1
30	46.101300.00	Spark Arrester Assembly	1
31	1.9074.4.0510	Bolt and Washer Assembly M5×10	3
32	1.16674.0825	Flange Bolt M8×25	3
33	152.070702.02	Support Arm	1
34	1.6177.1.08	Nut M8	11
35	256.250100.01	Hose, Absord Water (47.2in)	1
36	152.200702.02	Cover, Handle	1
37	152.200701.02.2	Handle	1
38	1.894.1.08	Circlip Ø8	2
39	152.200703.04	Pin,Handle	2
40	1.894.1.10	Circlip Ø10	2
41	152.200703.02	Pin,Handle	2
42	1.5789.0612	Flange Bolt M6×12	5
43	5.1900.023	Black Wire,Battery	1
44	152.200013.01	Jacket	3
45	5.1900.020	Red Wire,Battery	1
46	1.9074.3.0510	Bolt and Washer Assembly M5×10	2
47	1.6177.1.05	Nut M5	2
48	9.1000.150	Battery 12V15AH	1
49	152.200904.00	Pinch,Bubber	1

50 2.08.011 Flange Bolt 3/8-16-30 51 255.25100.00 Right Angle Connector(NH3/4) 52 255.250100.00 Inlet Filter Gasket 54 2.06.015 Clamp 55 255.250100.06 Water Hose(11.8in) 56 254.250501.07 Connector(G1/2) 57 2.07.017 O-Ring,Rubber 58 254.25008.00 Pump Controler 59 254.250501.05 Connector(G1/2-M18×1) 60 2.14.002 Key,SQ 6.3×6.3×50 61 46.901 Engine 62 255.25010.03 High-Pressure Hose(21.5in) 63 122.210003.00 Plug 64 1.95.16 Washer Ø16 65 2.02.019 Nut(NH3/4) 66 253.252300.03 Nozzle*15* 70 253.252300.02 Nozzle*15* 71 254.250501.00 Connector(3/8) 72 255.250501.00 Connector(3/8) 73 21.030002.00 Seal,Rubber 74 <td< th=""><th>#</th><th>Part Number</th><th>Description</th><th>Qty</th></td<>	#	Part Number	Description	Qty
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69 253.252300.02 Nozzle"25" 70 253.252300.01 Nozzle"15" 71 254.252300.05 Nozzle"Detergent" 72 255.250501.00 Connector(3/8) 73 21.030002.00 Seal,Rubber 74 5.1010.000.3 Switch 75 5.1000.01.3 Switch 76 152.159.022.2 Control Panel 77 5.1280.003 Fush(10A) 78 5.1830.005 Remote Control Module 79 1.823.0514 Screw M5x14 80 152.210002.11 Control Box 81 1.9074.1.0538.2 Bolt and Washer Assembly M5×38 82 152.201400.00 Rubber,Support 83 152.200002.01.2 Support Leg 84 1.5789.0816 Flange Bolt M8×16 85 6.1.107.2 Frame 86 253.201200.00 Motor Mount 87 1.6177.1.10 Nut M10 89 152.201701.04.48 10in Wheel 90 253.200016.00	67	252.201400.01	1 · · ·	4
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89 152.201701.04.48 10in Wheel 90 253.200016.00 Bush Ø16ר10.5×69.5 91 1.96.10 Washer Ø10				2
90 253.200016.00 Bush Ø16ר10.5×69.5 91 1.96.10 Washer Ø10				2
91 1.96.10 Washer Ø10				2
92 1.5782.10120 Bolt M10×120	91	1.96.10	Washer Ø10	2
	92			2
93 254.252200.00 Wand				1
94 1.16674.0512.2 Flange Bolt M5×12	94	1.16674.0512.2	Flange Bolt M5×12	6
95 254.200015.00.2 Clamp,Wand	95	254.200015.00.2		2
96 255.200012.02 Shelf,Hose	96	255.200012.02	Shelf,Hose	1
97 1.5789.0845 Flange Bolt M8×45	97	1.5789.0845	Flange Bolt M8×45	2
98 255.250100.05 High-Pressure Hose (50ft)	98	255.250100.05	High-Pressure Hose (50ft)	1

Engine Parts Diagram



#	Part Number	Description	Qty
1	21.061300.00	Recoil Handle	1
2	1.5789.0608	Flange bolt M6×8	4
3	46.061100.00.2	Recoil Starter Cover	1
4	45.060005.00	Recoil Starter Spring	1
5	45.061102.00	Recoil Starter Reel	1
6	2.10.003	Rope(Ø5×1550)	1
7	45.060003.00	Spring,Ratchet	2
8	45.060002.00	Starter Ratchet(Iron)	2
9	45.060009.00	Spring,Ratchet Guide	1
10	45.060007.00	Ratchet Guide	1
11	45.060008.00	Screw, Ratchet Guide	1
12	1.5789.0612	Flange bolt M6×12	12
13	2.05.001	Clamp(Ø8×6.5)	2
14	46.080100.01.48	Fan Cover	1
15 16	2.02.007 1.5789.0629	Nut(M16×1.5) Flange bolt 6×29	1 4
10	45.060001.00	Pulley, Starter	4
18	46.123000.01	Ignition Coil	1
19	45.080001.00	Cooling Fan	1
20	46.120100.04	Flywheel(Electric Start EPA)	1
21	45.030006.00	Plate, Coil	1
22	45.121000.00	Coil, Charging	1
23	2.11.007	0il Seal (Ø35ר52×8)	2
24	2.05.050	Wire clip	1
25	45.030032.00	Sheath, Wire	1
26	45.030200.00	Support	1
27	2.06.013	Clamp(Ø13.5×b10)	1
28	45.032000.00	Fuel Guide Assembly	1
29	2.03.023	Washer(Ø12.5ר20×2)	2
30	46.030100.01	Crankcase	1
31 32	45.127000.01	Oil Level Sensor	1 2
33	1.5789.0615 1.276.6202	Flange bolt 6×15 Bearing 6202	2
34	45.050006.00	Weight Balencer	1
35	45.050100.09	Crankshaft(U)	1
36	46.030008.00	Gasket, Crankcase Cover	1
37	2.04.001	Dowel Pin(Ø9×14)	2
38	46.080600.00	Air Guide, Right Side	1
39	1.276.6207	Bearing 6207	1
40	46.031000.00.48	Oil Dipstick Assembly	1
41	45.030007.01	Cover, Crankcase	1
42	22.031000.01.48	Plug,Oil Assembly.	1
43	1.5789.0840.0.8	Flange bolt 8×40	7
44	2.03.021.1	Washer(\emptyset 6.4× \emptyset 13×1)	1
45	45.110013.00	Shaft,Govorner Gear	1
46	45.110100.00	Gear, Govorner	1
47 48	21.110011.00 45.110012.00	Clip, Govorner Gear Bushing, Govorner Gear	1
48	45.050200.00	Connecting Rod	1
50	46.050005.00	Piston	1
51	2.09.004	Circlip(Ø21ר1)	2
52	45.050003.00	Wrist Pin	1
53	45.050303.00	Ring, Oil	1
54	46.050302.00	Ring, Second Piston	1
55	46.050301.00	Ring,First Piston	1
56	2.04.004	Dowel Pin(Ø12×20)	2
57	46.030009.01	Gasket, Cylinder Head(no asbestos)	1
58	46.080400.00	Air Guide, Lower	1
59	46.010100.00	Cylinder Head	1
60	2.01.006	Stud.Bolt(M8×34)	2
61	2.15.002(F6RTC)	Spark Plug(F6RTC)	1
62	2.08.014	Flange bolt 10×80	4
63	46.020002.00	Gasket, Cylinder Head Cover	1

#	Part Number	Description	Qty
64	46.021000.00	Cylinder Head Cover(CPE)	1
65	45.020001.02	Breather Tube	1
66	45.020100.00	Bolt, Cylinder Head Cover	1
67	2.08.039	Bolt, Drain(M12×1.5×15)	1
68	46.041000.00	Camshaft (EPA)	1
69	45.040013.00	Lifter, Valve	2
70	45.040002.00	Valve, Intake	1
71	45.040006.00	Valve, Exhaust	1
72	46.040005.00	Push Rod	2
73	45.040015.00	Retainer, Valve Spring(Down)	2
74	45.040017.00	Oil Seal, Valve	2
75	45.040003.00	Spring, Valve	2
76	23.040010.00	Bolt, Rocker Arm	2
77	45.040001.00	Retainer, Intake Valve Spring(Up)	1
78 79	45.040007.00 45.040008.00	Retainer, Exhaust Valve Spring(Up) Rotator, Exhaust Valve	1
80	46.040004.00	Guide Plate Push Rod	1
81	46.040016.00	Shaft, Rocker Arm	1
82	46.040201.00	Retainer, Rocker Arm	1
83	46.040009.00	Rocker Arm, Intake Valve	1
84	46.040018.00	Rocker Arm, Exhaust Valve	1
85	1.97.1.06	Washer 6	2
86	22.040012.00	Screw, Valve Adjustment	2
87	1.6177.1.06	Flg. Nut M6	2
88	21.040021.00	Net,Lock	2
89	2.01.008	Stud.Bolt(M6×M8×105)	2
90	46.130002.20	Gasket, Insulator(No Asbestos)	1
91	45.130001.00	Insulator, Carburetor	1
92	46.130003.20	Gasket ,Carburetor(No Asbestos)	1
93	46.131000.22	Carburetor	1
94	45.130005.01	Support, Stepper Motor	1
95	46.130004.20	Gasket, Air Cleaner(No Asbestos)	2
96	1.6177.06	Flg. Nut M6	3
97 98	46.091100.03 45.091002.20	Base, Air Cleaner Seal, Air Cleaner	1
99	45.091002.20	Separator, Air Cleaner	1
100	45.091003.20	Element, Air Cleaner	1
101	46.091200.04	Cover, Air Cleaner	1
102	1.5789.0835	Flange boltM8×35	2
103	45.125100.00	Starter Motor Assembly	1
104	45.125200.03	Relay, Starter	1
105	1.93.05	Spring Washer 5	2
106	1.16674.0516	Flange bolt M5×16	2
107	45.110001.00	Shaft, Governor Arm	1
108	2.03.019	Washer(Ø8.2ר17×0.8)	1
109	2.11.006	Oil Seal(Ø7ר14×5)	1
110	45.110008.00	Pin, Shaft	1
111	45.110003.00	Arm, Governor	1
112	2.08.040	Bolt,Governor Arm(M6×21)	1
113	45.110006.00	Rod Governor	1
114 115	45.110005.00 45.110007.00	Spring, Throttle Return Spring, Governor	1
115	46.080300.20	Air Guide, Upper	1
	46.131017.20	Standard Main Jet	1
117	46.131017.20.01	Altitude Main Jet	/
118	26.130015.24	Connecter,Choke Valve Axis	1
119	81.130010.00	Spring,Connecter	1
120	45.132200.01	Stepper Motor	1
121	1.823.0408	Screw M4×8	2
122	81.132001.00	Cover, Stepper Motor	1
123	46.091000.03	Air Cleaner Assembly.	1
124	46.061000.00	Recoil Assembly.	1

WARRANTY

CHAMPION POWER EQUIPMENT 1 YEAR LIMITED WARRANTY

Effective September 1, 2006. Replaces all undated warranties and all warranties dated before September 1, 2006.

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 one (1) year from the original date of purchase, and one (1) year for commercial & 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

Pressure washers 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 this pressure washer is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the pressure washer's limits, modified, installed improperly or connected incorrectly to any water supply.

Installation, Use and Maintenance Cont'd.

Normal maintenance such as spark plugs, air filters, adjustments, fuel system cleaning and obstruction due to buildup is not covered by this warranty.

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 cause by parts that are not original Champion Power Equipment parts.

Limits of Implied Warranty and Consequential Damage

Champion Power Equipment disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this pressure washer. THIS WARRANTY IS 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. Your state 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 10006 Santa Fe Springs Rd. Santa Fe Springs, CA 90670 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

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 2013 small off-road engine and engine powered equipment. In California, new, small off-road engines and new equipment that use small off-road 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 10006 Santa Fe Springs Road 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)

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. 10006 Santa Fe Springs Road Santa Fe Springs, CA 90670 1-877-338-0999 Attn.: Customer Service tech@championpowerequipment.com