



OPERATOR'S MANUAL

MODEL #100310
3000 PSI PRESSURE WASHER



 **1-877-338-0999**

or visit championpowerequipment.com

READ AND SAVE THIS MANUAL. This manual contains important safety precautions which should be read and understood before operating the product. Failure to do so could result in serious injury. This manual should remain with the product.
Specifications, descriptions and illustrations in this manual are as accurate as known at the time of publication, but are subject to change without notice.

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INTRODUCTION

Congratulations on your purchase of a Champion Power Equipment (CPE) product. CPE designs, builds, and supports all of our products to strict specifications and guidelines. With proper product knowledge, safe use, and regular maintenance, this product should bring years of satisfying service.

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

Since CPE highly values how our products are designed, manufactured, operated and are serviced, and also highly value your safety and the safety of others, we would like you to take the time to review this product manual and other product materials thoroughly and be fully aware and knowledgeable of the assembly, operation, dangers and maintenance of the product before use. Fully familiarize yourself, and make sure others who plan on operating the product fully familiarize themselves too, with the proper safety and operation procedures before each use. Please always exercise common sense and always err on the side of caution when operating the product to ensure no accidents, property damage, or injury occurs. We want you to continue to use and be satisfied with your CPE product for years to come.

When contacting CPE about parts and/or service, you will need to supply the complete model and serial numbers of your product. Transcribe the information found on your product's nameplate label to the table below.

CHAMPION POWER EQUIPMENT SUPPORT
1-877-338-0999
MODEL NUMBER
100310
SERIAL NUMBER
DATE OF PURCHASE
PURCHASE LOCATION

SAFETY DEFINITIONS

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

 DANGER

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

 WARNING

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

 CAUTION

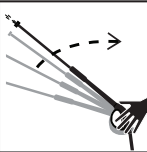
CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

 NOTICE

NOTICE is used to address practices not related to physical injury.

SAFETY SYMBOLS

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to more safely operate the product.

SYMBOL	MEANING
	Read the Operator's Manual. To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Electric Shock. Failure to use in dry conditions and to observe safe practices can result in electric shock.
	Toxic Fumes. The engine exhaust from this product contains chemicals known to the state of California to cause cancer and birth defects and other reproductive harm. Risk of Asphyxiation. This engine emits carbon monoxide, an odorless, colorless poison gas. Breathing carbon monoxide can cause nausea, fainting or death. Use only in a well ventilated area.
	Risk of Injections. To reduce the risk of injection or injury, never direct a water stream towards people or pets or place any body part in the stream. Leaking hoses and fittings are also capable of causing injection injury. Do not hold hoses or fittings.
	Eye and Ear Protection. Always wear safety goggles or safety glasses with side shields, and as necessary a full faceshield as well as full ear protection when operating this product.
	Kickback. To reduce the risk of injury from kickback, hold the trigger gun securely with both hands when the machine is on.
	Risk of Fire. Fuel and its vapors are extremely flammable and explosive. Fire can cause severe burns or death. Do not add fuel while the product is operating or still hot. Do not spray flammable liquids. Operate only where open flame is permitted.
	Risk of Explosion. Do not spray flammable liquids. Flammable liquids, fuel, and their vapors are explosive and can cause severe burns or death.

IMPORTANT SAFETY INSTRUCTIONS

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.

WARNING

This product contains chemicals known to the State of California to cause cancer and birth defects and other reproductive harm.

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 this product outdoors only in a well ventilated area.

DO NOT operate the product inside any building, including garages, basements, crawlspaces and sheds, enclosure or compartment, including a 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 this product 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.

WARNING

Contact with electrical power source can cause electric shock or burn.

NEVER spray in the direction of or near a power source/ electrical outlet.

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.

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.

NOTICE

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.

NOTICE

NEVER run the unit dry.

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

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.

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.

DANGER

Keep clear of nozzle.

DO NOT point the spray 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.

WARNING

Always wear eye protection with side shields marked to comply with ANSI Z87.1.

Following this rule will reduce the risk of serious personal injury.

NOTICE

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

DANGER

Risk of injection or injury. High pressure jets can be dangerous if subject to misuse.

- DO NOT direct discharge stream at persons, animals, electrical devices, or the machine itself.
- ALWAYS point spray gun in safe direction. Everytime you stop the engine, squeeze trigger of spray gun to relieve any trapped pressure.

NOTICE

ONLY use cold water.

NOTICE

Water under high pressure can damage fragile surfaces.

- ALWAYS: practice on a inconspicuous test area to understand when damage may occur.
- DO NOT: Point spray gun at glass.
- NEVER: Point the spray nozzle at persons, animals, electrical devices, plants or the machine itself.

⚠ WARNING

Use of pressure washers can create wet walking surfaces. While using a pressure washer, forces from the gun can cause you to lose footing and fall.

- Use only on a level surface.
- Make sure there is proper drainage to dissipate water.
- DO NOT: use on elevated surface where kickback could result in a serious fall.
- ALWAYS grasp the gun with two hands to prevent potential injury due to high pressure from gun.

⚠ WARNING

High pressure spray can splash back at operator or propel objects.

NEVER: allow children to operate any pressure washer or play nearby.

NEVER: leave spray gun unattended while machine is running or until after engine has been turned off and pressure has been relieved from the spray gun.

NEVER: repair high pressure hose, replace it.

NEVER: repair leaking connections with sealant, replace damaged O-rings.

NEVER: use spray gun with a damaged or altered trigger lock.

NEVER: secure the trigger in the open / spray position.

ALWAYS: keep high pressure hose connected to spray gun and pump while in use.

ALWAYS: be certain that spray gun nozzles and accessories are properly attached to the lance.

ALWAYS: wear safety goggles when operating this equipment. NOTE: Safety goggles cover the sides, top and bottom of the eyes. Don't confuse safety glasses for goggles.

⚠ 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.

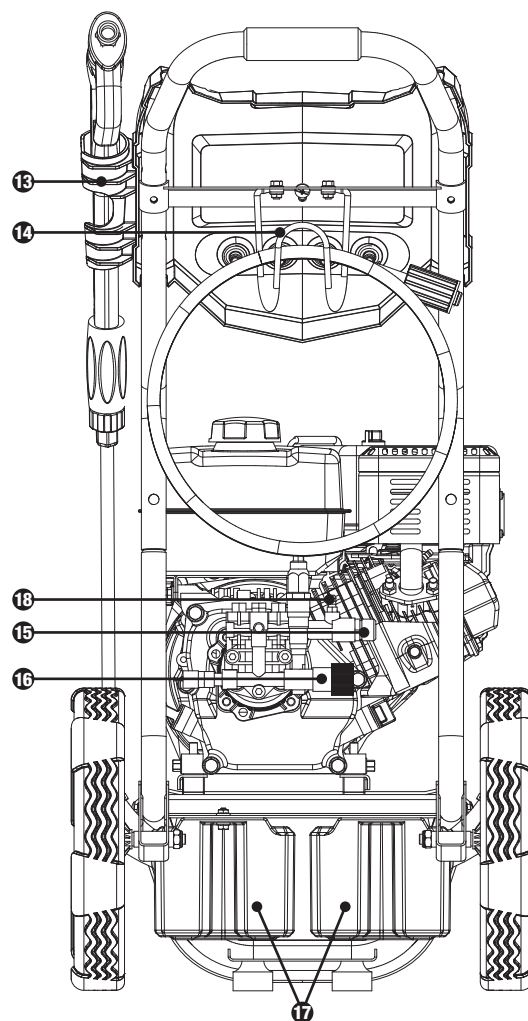
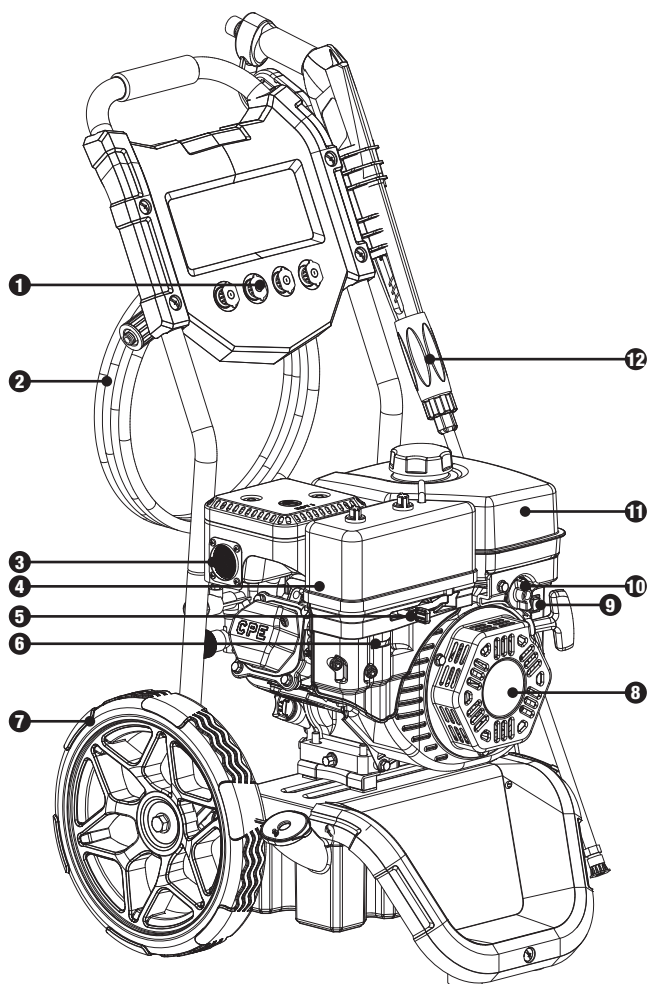
Disconnect the spark plug wire.

When storing the pressure washer:

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

CONTROLS AND FEATURES

Read this operator'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. **Nozzles**
2. **High Pressure Hose**
3. **Muffler**
4. **Air Filter** – Protects the engine by filtering dust and debris from the intake air.
5. **Throttle Lever** – Used to control the engine speed.
6. **Choke Lever** – Used to start the engine when cold.
7. **30.5 cm (12 in.) Never Flat Tires**
8. **Recoil Starter** – Used to manually start the engine
9. **Engine Switch**
10. **Fuel Valve Knob** – Used to turn fuel supply on and off to engine
11. **Fuel Tank** – 3.4 L (0.9 gal.)
12. **Trigger Gun Assembly** – Gun and spray wand
13. **Trigger Gun Holder** – Used to hold gun when assembled and not in use
14. **High Pressure Hose Hanger** – Used to hold high pressure hose when not in use.
15. **High Pressure Hose Outlet**
16. **Garden Hose Inlet**
17. **Detergent Tanks** – 1.7 L (0.5 gal.)
18. **Detergent Hose Connection Barb**

Parts Included

Gun Assembly

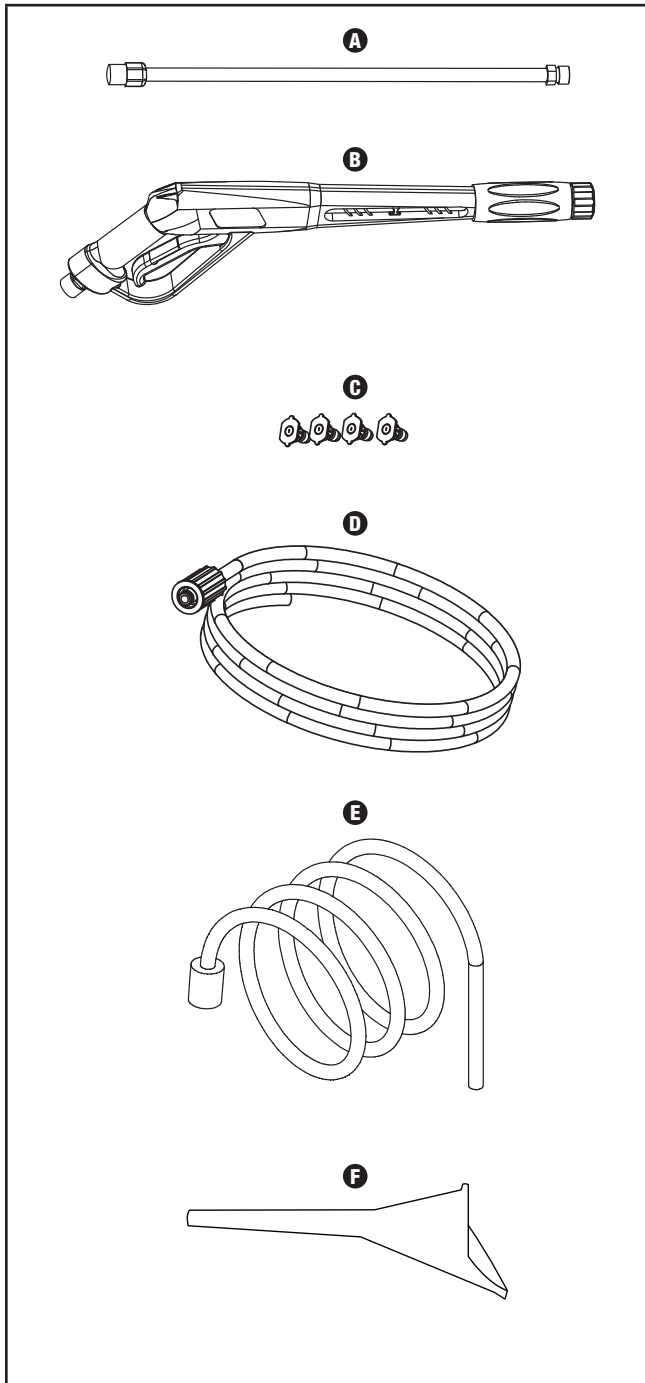
Spray Wand (A).....	1
Trigger Gun (B)	1
Quick Connect Nozzles (C).....	4

Hoses

7.6 m (25 ft.) High Pressure Hose (D).....	1
0.9 m (35.4 in.) Detergent Hose (E).....	1

Other

Oil Funnel (F).....	1
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ASSEMBLY

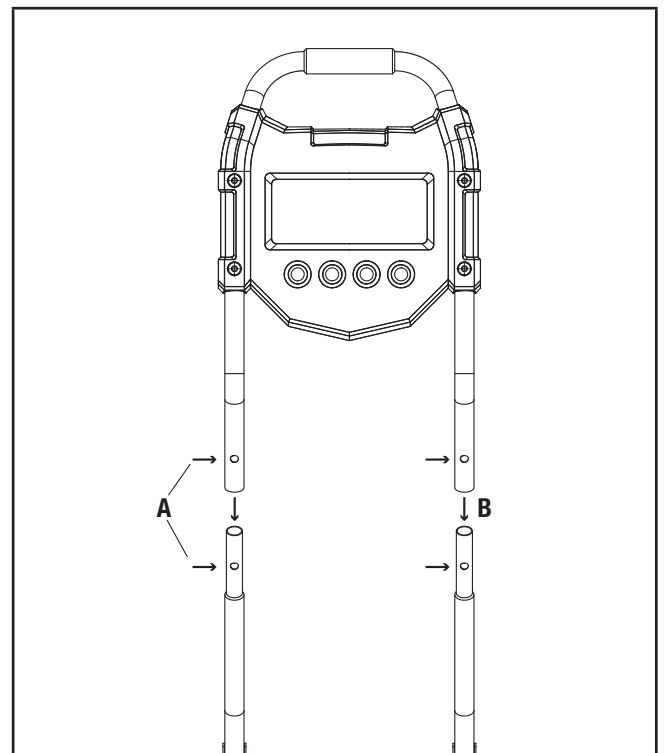
Your pressure washer requires some assembly. This unit ships from our factory without oil. It must be properly serviced with fuel and oil before operation. If you have any questions regarding the assembly of your pressure washer, call our help line at 1-877-338-0999. Please have your serial number and 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.
3. Carefully cut each corner of the box from top to bottom.

Install Handle to Bottom Frame

1. Line up the handle with the bottom frame.
2. Make sure the handle holes are lined up with the bottom frame spring button (A). Front face of shroud (decals side) should face the engine
3. Slide the handle downward on the bottom frame, until the spring buttons have popped through the holes on the handle frame. A “click” may sound. (B)
4. Gently pull up on the handle to make sure that two frames have made a solid connection and that the handle can not be pulled off without pressing on the spring buttons to release it.



Add Engine Oil

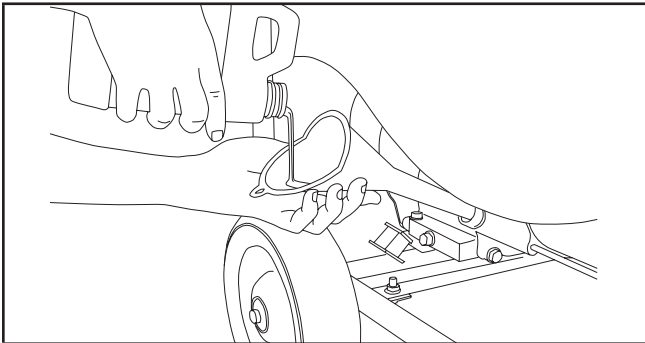
CAUTION

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.

NOTICE

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

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

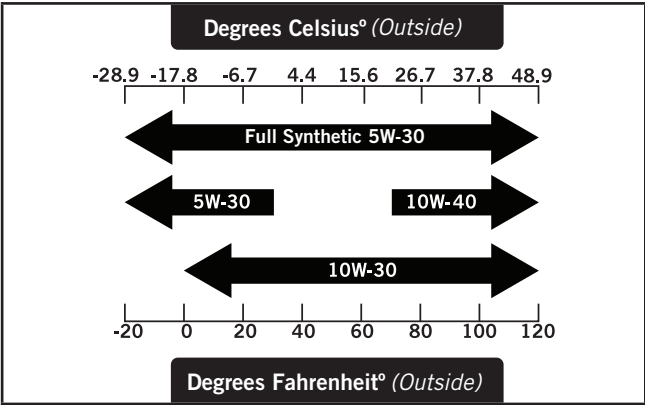
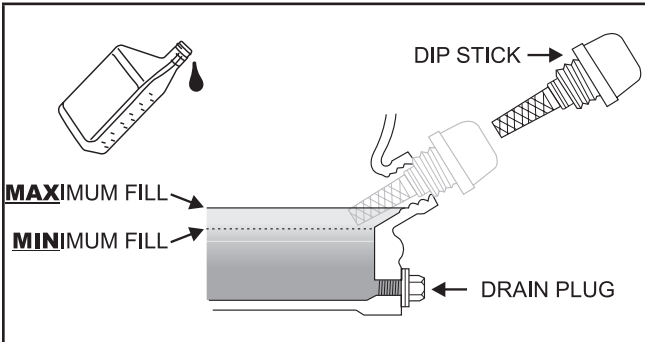


- 2. Remove oil fill cap/dipstick to add oil.
- 3. Add up to 0.6 L (0.6 qt.) of oil (not included) and replace oil fill cap/dipstick. DO NOT OVERFILL.
- 4. Check engine oil level daily and add as needed.

NOTICE

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.



NOTICE

We consider the first 5 hours of run time to be the break-in period for the engine. During the break in period we recommend using standard automotive non-synthetic blended oils. After the break in period synthetic lubricant can be used but is not required. Adjusting throttle setting will increase/decrease engine speed helping to seat piston rings. Avoid bogging or lugging the engine down and avoid prolonged running at constant RPM. After the 5 hour break-in period, change the oil. Using synthetic lubricants does not increase the recommended oil change interval.

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.

NOTICE

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

NOTICE

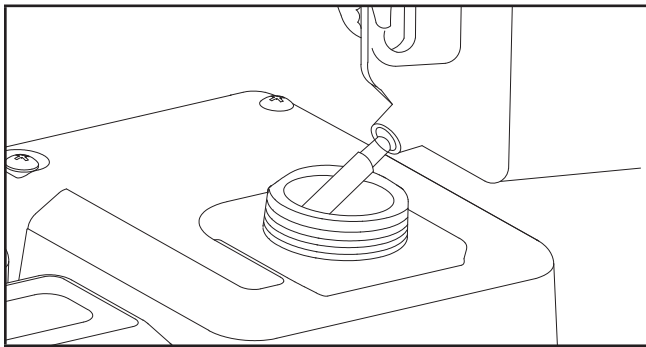
The engine rotor has a sealed, pre-lubricated ball bearing that requires no additional lubrication for the life of the bearing.

NOTICE

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

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 6.4 mm (¼ in.) of space left in the tank is required for fuel expansion, more than 6.4 mm (¼ in.) 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.

⚠ WARNING

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

⚠ CAUTION

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

Do not mix oil and gasoline.

Fill tank to approximately 6.4 mm (¼ in.) 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.

🗨 NOTICE

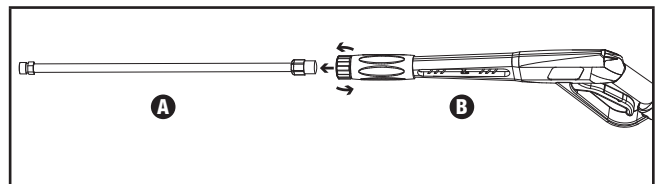
Our engines work well with 10% or less ethanol blend fuels. When using blended fuels there are some issues worth noting:

- 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.

Attach the Trigger Gun Assembly

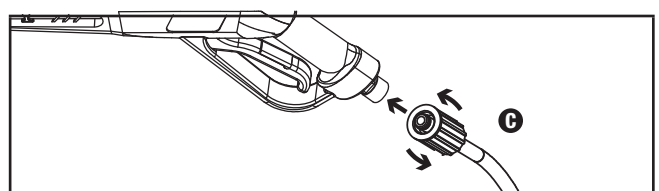
1. Attach the spray wand (A) to the trigger gun (B).
2. Rotate (clockwise) the M22 coupler on the trigger gun until the spray wand is secure. Tighten connection. DO NOT OVER-TIGHTEN.



3. Connect the end of the high pressure hose (C) to the gun inlet. Tighten connection clockwise. DO NOT OVER-TIGHTEN.

🗨 NOTICE

Be careful to avoid cross-threading, which can cause the trigger gun to leak during use.



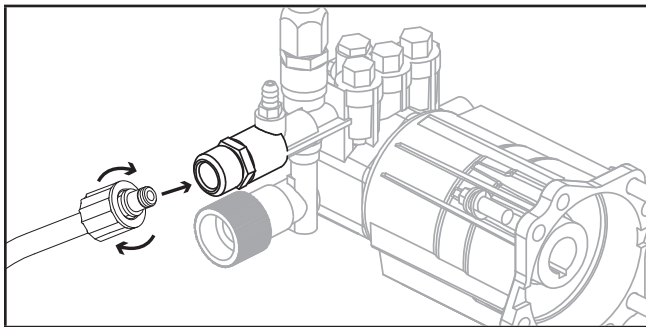
Connect the High Pressure Hose

1. Completely uncoil and straighten the high pressure hose to prevent kinks.
2. Align the collar on the hose to the threaded outlet on the pump.
3. Insert the high pressure hose collar onto the threaded outlet.
4. Turn the collar clockwise to tighten the hose securely to the pump.

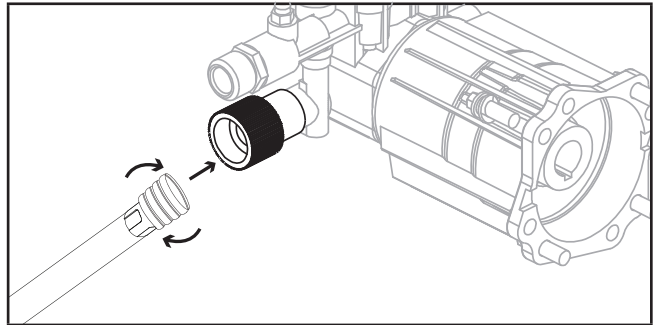
NOTICE

Be careful to avoid cross-threading, which can cause the hose to leak during use.

5. Gently pull on the hose to be certain it is properly secured.



2. With the hose faucet turned completely off, attach the end of the garden hose to the water inlet. Tighten by hand.

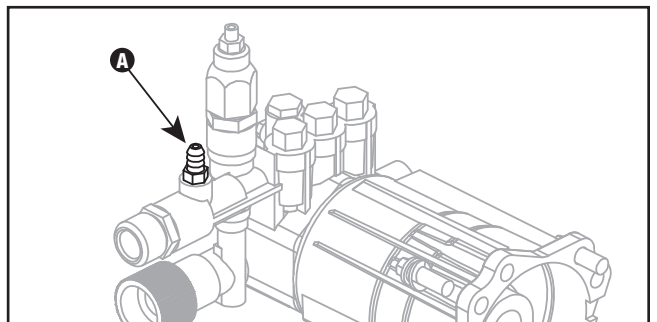


NOTICE

Do not run the pressure washer without water supply connected and turned on, as this may damage the high pressure seals and decrease pump life. Completely unwind the hose from its reel or coil and make sure the hose is not being restricted by tires, rocks, or any other objects that may lessen or prevent water flow to the pressure washer.

To connect the detergent hose to the pump

1. Completely uncoil the detergent hose.
2. Connect one end to detergent hose connection barb (A) on the pump.



Connect the Garden Hose

The water supply must come from a pressurized water spicket. NEVER use hot water or water from pools, lakes, etc. Before connecting the garden hose to the pressure washer:

1. Run water through the hose for 30 seconds to clean any debris from the hose.
2. Inspect the screen and gasket in the water intake.
3. If the screen and gasket is damaged, do not use the machine until the screen has been replaced.
4. If the screen is dirty, clean it before connecting the garden hose to the machine.

To connect the garden hose to the machine:

1. Completely uncoil the garden hose or remove completely from reel to prevent kinks.

NOTICE

There must be a minimum of 3 m (10 ft.) of unrestricted hose between the pressure washer intake and the hose faucet or shut off valve (such as a "Y" shut off connector).

OPERATION

Pressure Washer Location

This pressure washer must have at least 1.5 m (5 ft.) of clearance from combustible material. Leave at least 91.4 cm (3 ft.) 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

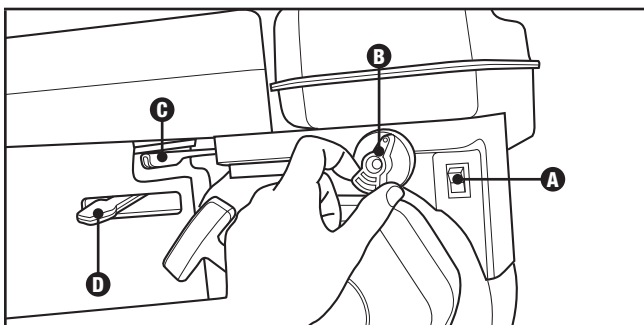
1. Turn the water supply ON.
2. Pull the trigger on the trigger gun to purge all air from the pump and hose. This may take several minutes.
3. Do not start the engine until a steady stream of water is flowing from the nozzle.

⚠ CAUTION

Never operate your pressure washer without water.

Starting the Engine

1. Make certain the pressure washer is on a flat, level surface.
2. Turn engine switch to "ON" position (A).
3. Rotate the fuel valve to the "ON" position (B).
4. Move the throttle lever (C) to the "FAST" position.
5. Move the choke lever (D) to the "CHOKE" position.
6. Pull the starter cord slowly until resistance is felt and then pull rapidly. SEE NOTE.
7. As engine warms up, move the choke lever (D) to "RUN" and adjust the throttle (C) as needed.



🗨 NOTICE

Keep choke lever in "CHOKE" position for 2 pulls of the recoil starter. After second 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.

🗨 NOTICE

If the engine does not start after 2 pulls, relieve pump pressure by pulling the trigger on the trigger gun.

🗨 NOTICE

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.

Distance from Cleaning Surface

The distance between the spray nozzle and the cleaning surface is another factor that 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

- The nozzle's fan pattern.
- The nozzle's angle to the cleaning surface.
- 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.
2. Place the nozzle approximately 1.2 m - 1.5 m (4-5 ft.) away from the cleaning surface. Then hold the nozzle at a 45 degree angle to the cleaning surface. Trigger the gun.
3. Vary the fan pattern spray angle and the distance to the cleaning surface until optimum cleaning efficiency is achieved without damaging the surface.

Use the following table to determine which nozzle to use.

NOZZLE SELECTION GUIDE					
0° 25° 40° Soap  Abrasive Gentle		HIGH PRESSURE WASH			LOW PRESSURE WASH
		0°	25°	40°	Soap
Concrete, Brick, Masonry		!	✓	✓	✓
Siding, Gutters, Home			!	✓	✓
Fencing, Deck, Patio			!	✓	✓
Lawn and Garden Equipment, Boats, RVs			!	✓	✓
✓ Recommended nozzle ! Use with caution					

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.

⚠ WARNING

Injection hazard.

Fully unwrap and straighten high pressure hose prior to and during each use and do not allow it to become kinked. The high pressure hose features an outer covering that provides strength to the hose. If the outer covering becomes damaged, stop using the hose and replace it immediately. A kinked or damaged hose can develop a high pressure leak and result in a possible injection or other serious personal injury.

🗨 NOTICE

If the starter grip and rope becomes difficult to pull, squeeze the trigger to relieve water pressure before attempting to start the engine again.

For high pressure cleaning, refer to the Nozzle Selection Guide for more information about which quick connect nozzle to choose.

⚠ 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.

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.

NOTICE

Use only detergents designed for pressure washers.

Do not use household detergents, acids, alkalines, bleaches, solvents, flammable material, or industrial grade solutions, which can damage the pump or cause property damage. Many detergents may require mixing prior to use. Prepare cleaning solution as instructed on the solution bottle. Always test in an inconspicuous area before beginning.

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.

1. Fill the detergent tank with cleaning solution.
2. Insert the detergent suction hose (end with filter) into the hole located in the center of the detergent tank lid.
3. Install the quick connect detergent nozzle (black) in the spray wand. Detergent will only be drawn through the pump when the black detergent nozzle is attached to the end of the wand.
4. Be sure water supply is on. Start the engine. Pull the trigger gun to spray the detergent solution.

WARNING

NEVER use bleach in detergent tank. It will damage the pump and void the warranty.

NOTICE

The trigger gun will only draw detergent from the tank when the black quick connect nozzle is installed in the wand.

NOTICE

When spraying detergent, the detergent will be diluted 1:12. Approximately 621 mL (21 oz.) of detergent will be consumed from the tank for every minute sprayed.

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 off.

Depressurize System

To depressurize, turn engine off, turn water supply off and squeeze gun trigger for at least 15 seconds after engine is turned off.

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 gun lock out.
2. Turn the unit off.
3. Shut off the water supply.
4. Disengage the trigger safety latch and trigger the gun to relieve pressure.
5. Re-engage the trigger safety latch.
6. 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 the warranty.

⚠ CAUTION

Running the unit for more than one minute 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 the 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 engine switch to the "OFF" position.
4. Depressurize system.
5. Turn off water supply 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.

🗨 NOTICE

If the engine will not be used for a period of two (2) weeks or longer, please see the Storage section for proper engine and fuel storage.

Operation at High Altitude

The density of air at high altitude is lower than at sea level. Engine power is reduced as the air mass and air-fuel ratio decrease. Engine power and output will be reduced approximately 3½% for every 305 m (1000 ft.) 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
P19-1-Z	Standard	26.131017.00.Z	1067 m (3500 ft.)
	Altitude	26.131017.00.01.Z	
P19-1-Y	Standard	26.131017.00.Y	
	Altitude	26.131017.00.01.Y	
P19-1-H	Standard	26.131017.00.H	
	Altitude	26.131017.00.01.H	

⚠ WARNING

Operation using the alternative main jet at elevations lower than the recommended minimum altitude can damage the engine. For operation at lower elevations, the standard main jet must be used. Operating the engine with the wrong engine configuration at a given altitude may increase its emissions and decrease fuel efficiency and performance.

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.

⚠ WARNING

Never operate a damaged or defective pressure washer.

⚠ WARNING

Improper maintenance will void your warranty.

🗨 NOTICE

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

The owner/operator is responsible for all periodic maintenance.

Complete all scheduled maintenance in a timely manner.

Correct any issue before operating the pressure washer.

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

Cleaning the Pressure Washer

⚠ CAUTION

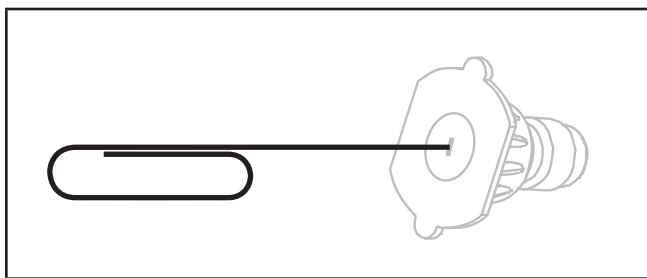
DO NOT spray the pressure washer with water.

Water can contaminate the fuel system and can enter the engine through the cooling slots and damage the engine.

1. Use a damp cloth to clean exterior surfaces of the pressure washer.
2. Use a soft bristle brush to remove dirt and oil.
3. Use an air compressor (25 PSI) to clear dirt and debris from the pressure washer.
4. 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.

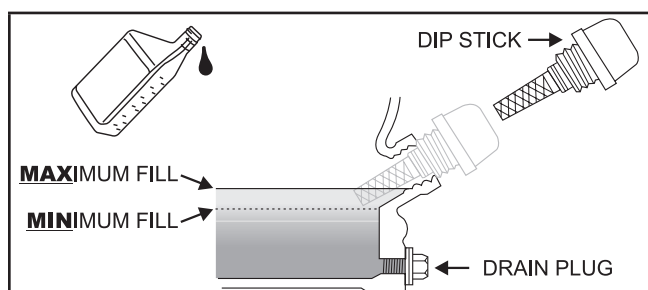


To prevent accidental starting, remove and ground spark plug wire before performing any service.

Changing the Engine Oil

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

1. Remove the oil drain plug with a 12 mm socket and extension (not included).
2. Allow the oil to drain completely.
3. Replace the drain plug.
4. Remove oil fill cap/dipstick to add oil.



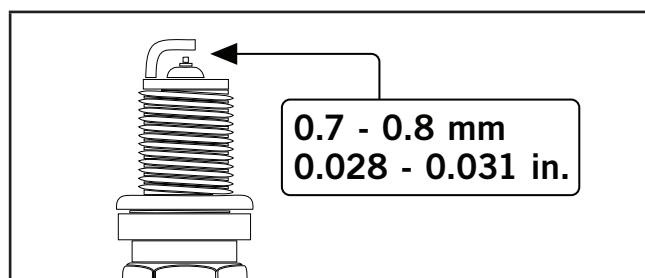
5. Add up to 0.6 L (0.6 qt.) of oil and replace oil fill cap/dipstick. DO NOT OVERFILL.
6. Dispose of used oil at an approved waste management facility.

🗨 NOTICE

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.

Cleaning and Adjusting the Spark Plug(s)

1. Remove the spark plug cable from the spark plug.
2. Use a spark plug socket tool (not included), or a 21 mm (13/16 in.) (not included) socket 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 (0.028-0.031 in.).



5. Refer to the spark plug types in Specifications when replacing the plug.
6. Carefully thread the plug into the engine.
7. Use the spark plug socket tool (not included), or a 21 mm (13/16 in.) (not included) socket to install the plug.
8. Attach the spark plug wire to the plug.

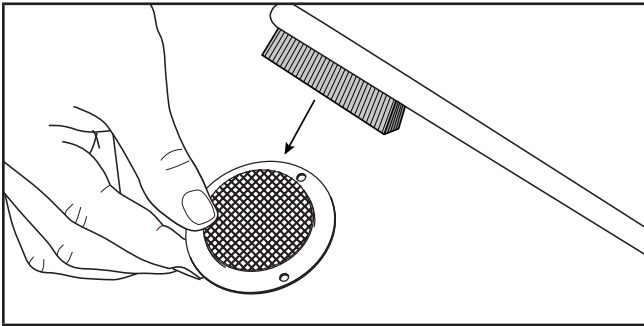
Cleaning the Air Filter

1. Using your fingers, unscrew the thumb screws of the top holes of the air filter cover.
2. Remove the plastic outer casing.
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 and using your fingers, insert the thumb screws into the top and bottom holes of the air filter cover. Screw until tight. Be sure not to over tighten.

Cleaning the Spark Arrester

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



⚠ CAUTION

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

💬 NOTICE

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

Adjusting the Governor

⚠ WARNING

Tampering with the factory set governor will void your warranty.

The air-fuel mixture is not adjustable. Tampering with the governor can damage your pressure washer 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 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.*

STORAGE

Refer to the Maintenance section for proper cleaning instructions.

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.

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.

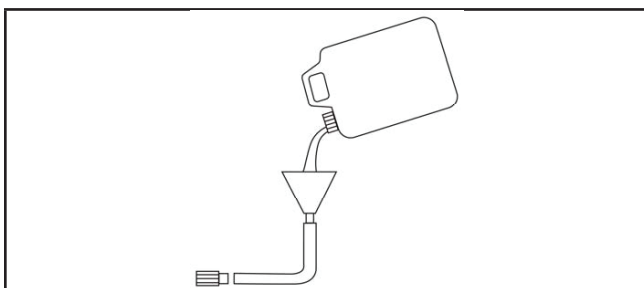
Engine Stored for Over 30 Days

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 ½ oz. (14.9 mL) of oil into the cylinder. Crank the engine slowly to distribute the oil and lubricate the cylinder.
9. Reattach the spark plug.

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 oz. (177.4 mL) of RV antifreeze, a funnel, and approximately 12 in. (30.5 cm) 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.

⚠ WARNING

Never store the pressure washer inside or next to appliances where there is a source of heat or open flame, spark or pilot light because they can ignite gasoline vapors.

DO NOT store a pressure washer near fertilizer or any corrosive material.

Even with an empty gas tank, gasoline vapors could ignite.

⚠ DANGER

Engine exhaust contains odorless and colorless 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 or long periods of time make sure that the engine switch and the fuel valve are set in the "OFF" position.

🗨 NOTICE

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.

SPECIFICATIONS

Pressure Washer Specifications

Model.....	100310
Max Pressure.....	3000 PSI
Max Volume.....	2.5 GPM
Max Water Temperature.....	60° C (140° F)
Fuel Capacity.....	3.4 L (0.9 gal.)
Gross Weight.....	34.9 kg (76.9 lb.)
Net Weight.....	31 kg (68.3 lb.)
Height.....	97.2 cm (38.3 in.)
Width.....	46.7 cm (18.4 in.)
Length.....	68 cm (26.8 in.)

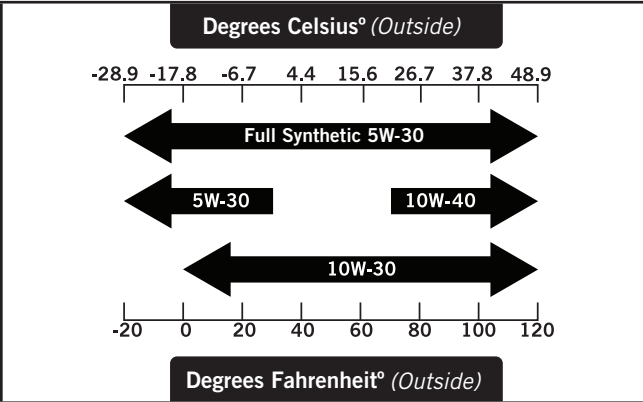
Engine Specifications

Model.....	YF168F-2-000
Displacement.....	196 cc
Type.....	4-Stroke OHV
Start Type.....	Manual

Oil Specifications

DO NOT OVERFILL.

Type.....	*See chart below
Capacity.....	0.6 L (0.6 qt.)



NOTICE

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

Fuel Specifications

Use unleaded gasoline intended for motor vehicle use with a minimum octane rating of 85 or higher. Never use fuel containing more than 10% ethanol. DO NOT USE E15 or E85. DO NOT OVERFILL.

Gasoline Capacity.....	3.4 L (0.9 gal.)
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Spark Plug Specifications

OEM Type.....	NHSP F6RTC
Replacement Type.....	NGK BPR6ES or equivalent
Gap.....	0.7-0.8 mm (0.028-0.031 in.)

Valve Specifications

Intake Clearance.....	0.13-0.17 mm (0.005-0.007 in.)
Exhaust Clearance.....	0.18-0.22 mm (0.007-0.009 in.)

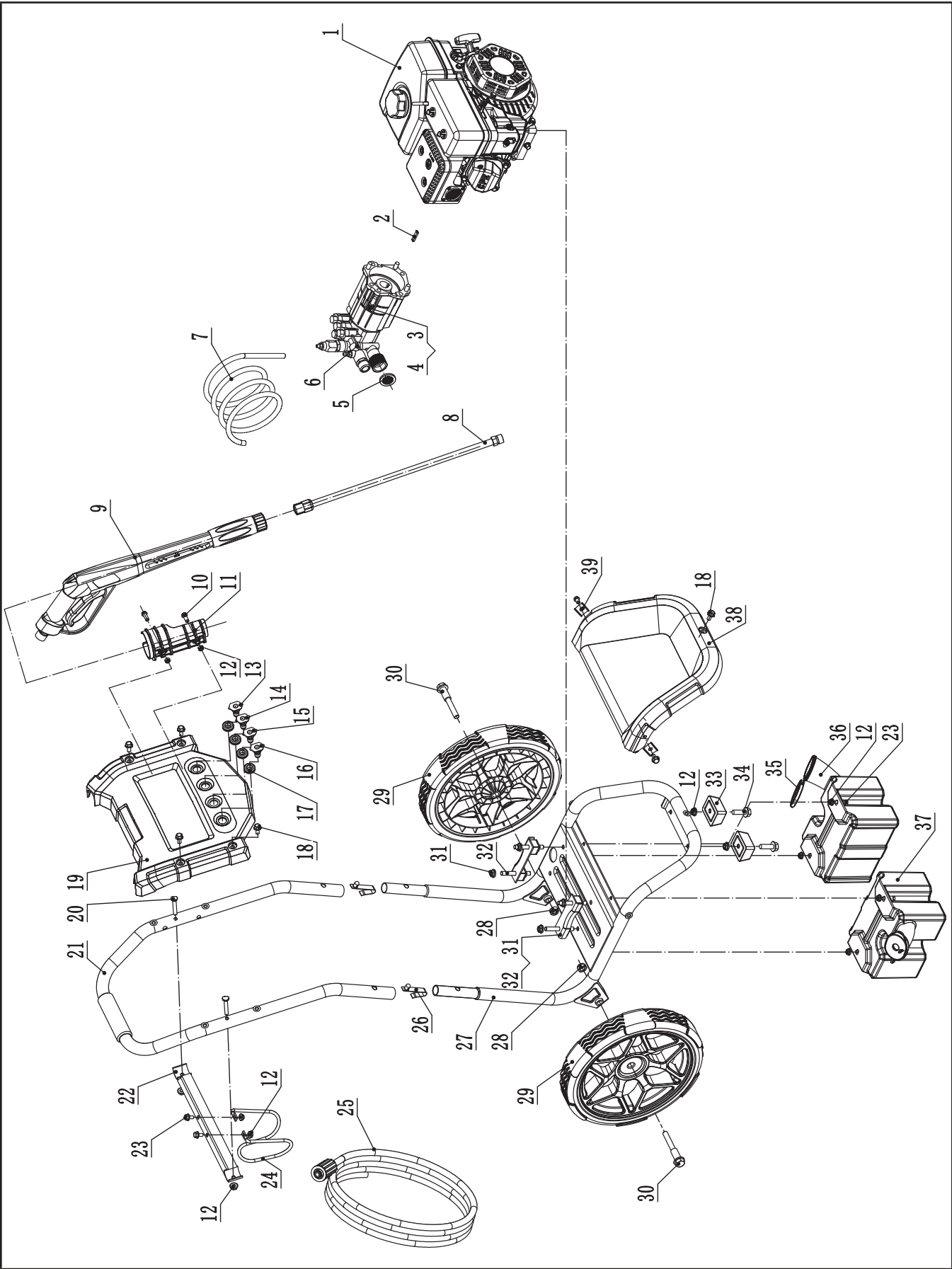
NOTICE

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

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 it may be operated at temperatures ranging from 5°F (-15°C) to 122°F (50°C) for short periods of time. If exposed to temperatures outside this range during storage, it should be brought back within this range before operation. In any event, the product must always be operated outdoors, in a well-ventilated area and away from doors, windows and vents.

Parts Diagram

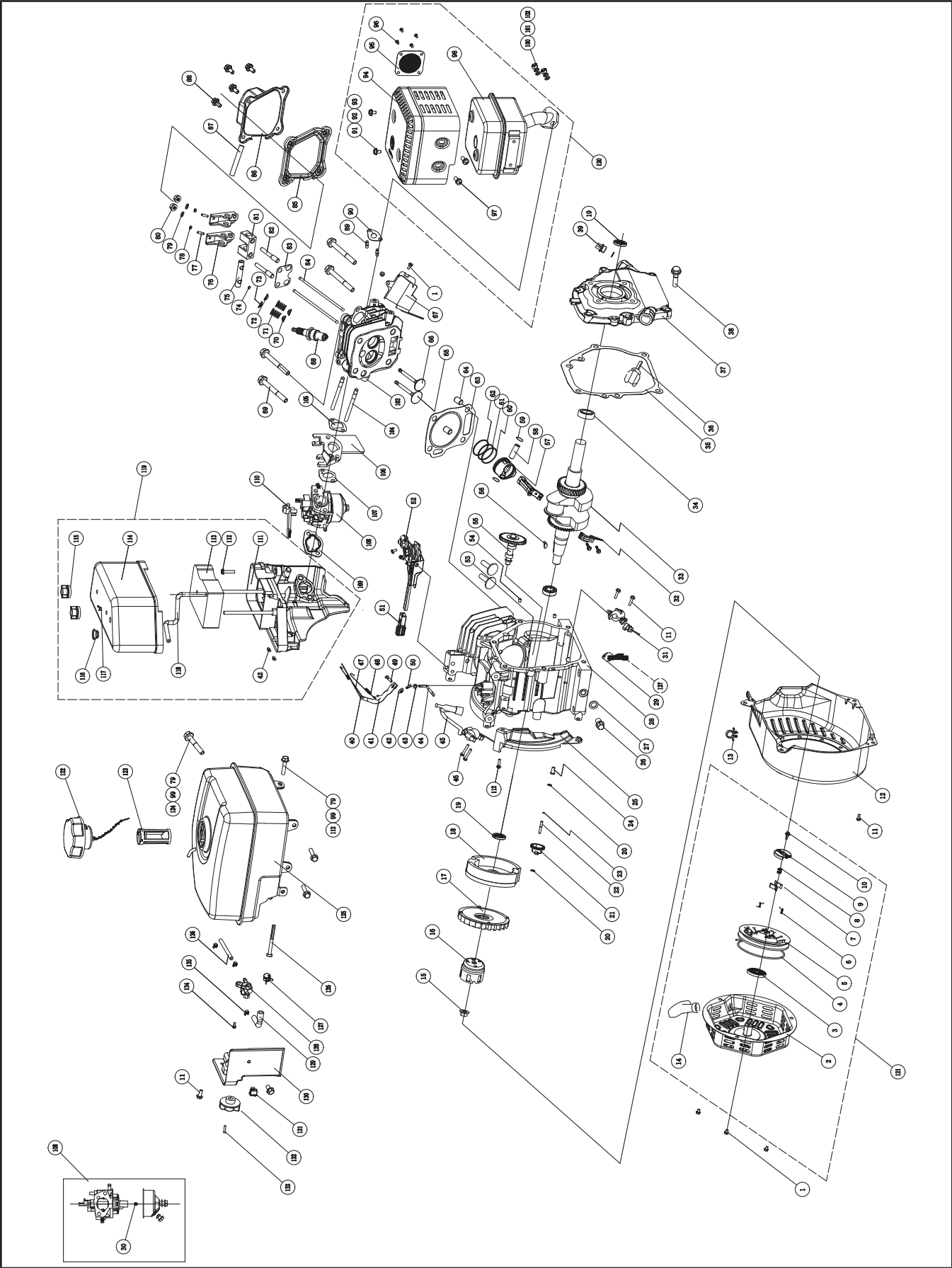


Parts List

#	Part Number	Description	Qty.
1	26.111	Engine	1
2	2.14.001	Key, SQ 4.78 x 4.78 x 40	1
3	2.08.010	Bolt 5/16-24 x 22	4
4	1.93.08	Lock Washer Ø8	4
5	252.251003.00	Inlet Filter Gasket	1
6	254.251000.01	Pump Body	1
7	254.250100.10	Detergent Hose, 35.4 in.	1
8	254.252200.00	Wand	1
9	254.252100.00.2	Handle, Gun	1
10	1.5783.0645	Bolt M6 x 45	2
11	254.200012.05.2	Trigger Gun Holder	1
12	1.6177.1.06	Lock Nut M6, Flange	12
13	254.252300.05	Nozzle "Detergent", 65400	1
14	254.252300.09	Nozzle "40", 40028	1
15	254.252300.08	Nozzle "25", 25028	1
16	254.252300.06	Nozzle "0", 00028	1
17	252.201400.01	Sheath, Nozzle	4
18	1.5789.0615.1	Flange Bolt M6 x 15, Black	7
19	254.200800.00.2	Decorative Sheet, Up	1
20	2.08.139	Bolt M6 x 35	2
21	254.200701.06.78	Handle, Frame	1

#	Part Number	Description	Qty.
22	254.201600.00.78	Mounting Plate	1
23	1.5789.0615	Flange Bolt M6 x 15	6
24	254.200012.03.78	Hose Hanger	1
25	254.250100.00	High-Pressure Hose, 25 ft.	1
26	252.201300.00	Pin	2
27	254.201100.08.78	Frame	1
28	1.6182.10	Lock Nut M10	2
29	254.201701.03.48	12 in. Wheel, Yellow	2
30	2.08.007	Bolt M10 x 82	2
31	1.6177.1.08	Lock Nut M8, Flange	8
32	252.201200.00	Vibration Mount, Engine	2
33	83.201400.01	Vibration Mount, Support Leg	2
34	1.5789.0620	Flange Bolt M6 x 20	2
35	254.250203.01	Cap, Detergent Tank	2
36	254.250200.01	Detergent Tank, Left	1
37	254.250200.02	Detergent Tank, Right	1
38	254.200800.01.2	Decorative Sheet, Down	1
39	2.03.038	Curved Washer	2

Engine Parts Diagram



Engine Parts List

#	Part Number	Description	Qty.
1	1.5789.0608	Flange Bolt M6 x 8	5
2	22.061100.00.2	Cover, Recoil Starter, Black	1
3	21.061005.00	Spring, Recoil Starter	1
4	2.10.003.1	Rope Ø5 x 1550, Black	1
5	21.061001.01	Reel, Recoil Starter	1
6	45.060003.00	Spring, Ratchet	2
7	45.060002.00	Starter Ratchet, Steel	2
8	45.060009.00	Spring, Ratchet Guide	1
9	45.060007.00	Ratchet Guide	1
10	45.060008.00	Screw, Ratchet Guide	1
11	1.5789.0612	Flange Bolt M6 x 12	10
12	24.080100.01.48	Fan Cover, Yellow	1
13	2.05.002	Clamp Ø9.5 x 5	1
14	21.061300.00	Handle, Recoil, Soft	1
15	2.02.006	Nut M14 x 1.5	1
16	21.060001.01	Pulley, Starter	1
17	23.080001.00	Cooling Fan	1
18	24.120100.06	Flywheel	1
19	2.11.001	Oil Seal Ø25 x Ø41.3 x 6	2
20	2.03.020.1	Washer Ø6.2 x Ø15 x 0.5, Black	2
21	21.110100.00	Gear, Governor	1
22	21.110013.00	Shaft, Governor Gear	1
23	21.110011.00	Clip, Governor Gear	1
24	21.110012.01	Bushing, Governor Gear, Steel	1
25	23.080600.00	Air Guide, Right	1
26	2.08.037	Drain Bolt M10 x 1.25 x 25	2
27	2.03.016	Washer Ø10 x Ø16 x 1.5, Drain Bolt	2
28	26.030100.00	Crankcase	1
29	21.120400.01	Diode Assembly	1
30	26.131017.00	Main Jet, Standard	1
	26.131017.00.01	Main Jet, Altitude	/
31	21.127000.02	Oil Level Sensor	1
32	23.050200.00	Connecting Rod	1
33	25.050100.03	Crankshaft	1
34	1.276.6205	Bearing 6205	2
35	24.030008.00	Gasket, Crankcase Cover	1

#	Part Number	Description	Qty.
36	22.031000.00.48	Oil Dipstick Assembly, Yellow	1
37	24.030007.00	Cover, Crankcase	1
38	1.5789.0832.0.8	Flange Bolt M8 x 32	6
39	22.031000.01.48	Oil Filter Cap, Yellow	1
40	23.110005.01	Spring, Throttle Return	1
41	21.110003.00	Arm, Governor	1
42	1.6177.06	Flange Nut M6	3
43	2.03.021.1	Washer Ø6.4 x Ø13 x 1, Black	1
44	21.110001.00	Shaft, Governor Arm	1
45	22.123000.02	Ignition Coil, Shield	1
46	1.5789.0625	Flange Bolt M6 x 25	2
47	23.110006.00	Rod, Governor	1
48	23.110007.00	Spring, Governor	1
49	2.08.040	Bolt M6 x 21, Governor Arm	1
50	21.110008.00	Pin, Shaft	1
51	24.111008.01	Grip Sheath, Speed Governor	1
52	24.111000.01	Control Assembly	1
53	25.040013.00	Lifter, Valve	2
54	2.04.001	Dowel Pin Ø9 x 14	2
55	26.041000.01	Camshaft	1
56	2.14.012	Woodruff Key 4 x 7.5 x 19	1
57	26.050005.00	Piston	1
58	23.050003.00	Pin, Piston	1
59	2.09.001	Circlip Ø18 x Ø1	2
60	26.050303.00	Ring, Oil	1
61	26.050302.00	Ring, Second Piston	1
62	26.050301.00	Ring, First Piston	1
63	26.030009.00	Gasket, Cylinder Head	1
64	2.04.003	Dowel Pin Ø10 x 14	2
65	23.040002.00	Valve, Intake	1
66	23.040006.00	Valve, Exhaust	1
67	26.080400.00	Air Guide, Lower	1
68	2.15.002(F6RTC)	Spark Plug F6RTC	1
69	1.5789.0860	Flange Bolt M8 x 60	4
70	23.040017.00	Oil Seal, Valve	2
71	21.040003.00	Spring, Valve	2
72	21.040007.00	Retainer, Exhaust Valve Spring	1
73	21.040001.00	Retainer, Intake Valve Spring	1

#	Part Number	Description	Qty.
74	21.040008.00	Rotator, Exhaust Valve	1
75	24.040202.00	Shaft, Rocker Arm	1
76	22.040009.00	Rocker Arm	2
77	22.040012.00	Screw, Valve Adjustment	2
78	21.040021.00	Nut M6 x 0.5, Lock	2
79	1.971.06	Washer Ø6	6
80	1.6177.1.06	Flange Nut M6	2
81	24.040201.00	Retainer, Rocker Arm	1
82	23.040010.00	Bolt, Rocker Arm	2
83	24.040004.00	Guide Plate, Push Rod	1
84	23.040005.00	Push Rod	2
85	21.020002.01	Gasket, Cylinder Head Cover	1
86	24.021000.00	Cover, Cylinder Head	1
87	21.020001.00	Breather Tube	1
88	1.5789.0615	Flange Bolt M6 x 15	4
89	2.01.010	Stud Bolt M8 x 35	2
90	26.100001.00	Gasket, Exhaust Pipe	1
91	1.16674.0510	Flange Bolt M5 x 10	2
92	1.848.05	Washer Ø5	2
93	1.93.05	Lock Washer Ø5	2
94	24.101202.00	Muffler Protector	1
95	46.101300.05	Spark Arrester Assembly	1
96	1.818.0406	Screw M4 x 6	4
97	1.9074.4.0510	Screw/Washer Assembly M5 x 10	2
98	24.101000.00	Muffler Assembly	1
99	1.93.06	Lock Washer Ø6	6
100	1.6175.08	Nut M8	2
101	1.848.08	Washer Ø8	2
102	1.93.08	Lock Washer Ø8	2
103	26.010100.00	Cylinder Head	1
104	2.01.009	Stud Bolt M6 x 110	2
105	24.130002.00	Gasket, Insulator	1
106	23.130001.00	Insulator, Carburetor	1
107	22.130003.00	Gasket, Carburetor	1
108	26.131000.00	Carburetor	1
	26.131000.02		
109	21.130004.00	Gasket, Air Cleaner	1
110	21.130100.00	Choke Handle	1
111	24.091100.01	Base, Air Cleaner	1
112	1.5789.0620	Flange Bolt M6 x 20	5
113	24.091003.02	Element, Air Cleaner	1
114	24.091200.02	Cover, Air Cleaner	1

#	Part Number	Description	Qty.
115	24.091600.01	Screw Cap, Air Clean Cover	2
116	2.12.001	Buffer Ø7.5 x 7.5	1
117	2.06.006	Clamp Ø7 x Ø1	1
118	24.070014.02	Pipe, Reversal Valve	1
119	24.091000.02	Air Cleaner Assembly	1
120	24.101000.00	Muffler Assembly	1
121	22.061000.00	Recoil Assembly	1
122	24.070100.02	Cap, Fuel Tank	1
123	81.070301.00	Fuel Filter, Fuel Tank	1
124	1.5789.0633	Flange Bolt M6 x 33	1
125	24.071000.01	Fuel Tank	1
126	111.070300.01	Fuel Filter, Fuel Pipe	1
127	2.06.018	Clamp Ø10.5 x b8	1
128	24.070400.00	Fuel Valve	1
129	24.070011.01	Pipe Ø4.5 x (30 + 30)	1
130	24.070010.00	Veil, Fuel Tank	1
131	5.1010.003.3	Ignition Switch, Red	1
132	24.070001.00	Fuel Knob	1
133	1.818.0412	Bolt M4 x 12	1
134	1.16674.0512.2	Flange Bolt M5 x 12	1
135	2.06.007	Clamp Ø8 x b6	3
136	24.070011.00	Fuel Pipe Ø4.5 x Ø9.5 x 230	1
137	23.120700.02	Change Wire Flameout	1

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
Low pressure detergent wash is not functioning properly.	Detergent is too thick	Dilute detergent
	Spray wand has high pressure quick connect nozzle installed	Detergent only works with low pressure quick connect nozzle (black)
	Detergent hose is not connected to the pump housing	Check connection.
	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
	Detergent tube not connected to the brass fitting on the pump outlet	Install detergent tube to detergent injector inlet near pump outlet
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
Can't pull recoil	Pump will build pressure with each pull	Pull gun trigger after 2 pulls of recoil, to release pump pressure

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

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

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

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

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

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

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE:

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

OWNER WARRANTY RESPONSIBILITIES:

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

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

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

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

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

EMISSION CONTROL SYSTEM WARRANTY

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

Emission Control System Warranty (ECS Warranty):

1. APPLICABILITY: The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.

2. GENERAL EMISSIONS WARRANTY COVERAGE

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

a. Designed, built and equipped so as to conform at the time of sale with applicable regulations under the Canadian Environmental Protection Act, 1999 (CEPA 1999).

b. Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to the part as described in the engine manufacturer's application for certification for a period of two years.

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

a. Any warranted part that is not scheduled for replacement as required maintenance in the Owners Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by CPE according to Subsection "d" below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.

b. Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owners Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.

c. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by CPE according to Subsection "d" below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.

d. Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a CPE Authorized Service Outlet.

e. The owner shall not be charged for diagnostic labour which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a CPE Authorized Service Outlet.

f. CPE shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.

g. Throughout the ECS Warranty Period, CPE shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.

h. Any CPE Authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce CPE's warranty obligation.

i. Unapproved add-on or modified parts may not be used to modify or repair a CPE engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. CPE shall not be liable hereunder for failures of any warranted parts of a CPE engine caused by the use of such an unapproved add-on or modified part.

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

Systems covered by this warranty	Parts description
Fuel Metering System	Fuel regulator, carburetor and internal parts
Air Induction System	Air cleaner, intake manifold
Ignition System	Spark plug and parts, magneto ignition system
Exhaust System	Exhaust manifold, catalytic converter
Miscellaneous Parts	Tubing, fittings, seals, gaskets, and clamps associated with these listed systems.
Evaporative Emissions	Fuel tank, fuel cap, fuel line, fuel line fittings, clamps, pressure relief valves, control valves, control solenoids, electronic controls, vacuum control diaphragms, control cables, control linkages, purge valves, vapour hoses, liquid/ vapour separator, carbon canister, canister mounting brackets, carburetor purge port connector

TO OBTAIN WARRANTY SERVICE:

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

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

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