POWER EQUIPMENT



PRESSURE WASHER OPERATOR'S MANUAL

MANUEL D'UTILISATION DU LAVEUSES À PRESSION MANUAL DEL OPERADOR DE LA LAVADORA A PRESIÓN

BEPOWEREQUIPMENT 0

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INTRODUCTION



Congratulations on your purchase of a BE Power Equipment pressure washer. You can be confident that this pressure washer is constructed and tested with optimum performance and quality in mind.

Reading this manual will help get you the best results for set-up, operation, maintenance and avoid personal injury or damage to your machine. By knowing how best to operate this machine, you will be better positioned to show others who may also operate the unit.

All the information in this manual is based on the latest product information available at the time of printing. BE Power Equipment reserves the right to make changes at any time without notice or incurring any obligation.

Owner/Operator Responsibility

The owner/operator must have a thorough understanding of the operation, maintenance and dangers associated with using this machine. It must be understood that it is ultimately up to the owner/operator to safely use this machine as outlined in this manual.

This manual is considered a part of the machine and needs to be kept in a safe location. If the machine is resold or given to someone else, this manual needs to be included.

Product Record and Identification

It is recommended that you record the product identification numbers in this manual. These numbers are important to have on hand if you need to contact technical support (1-866-850-6662). The model and serial number can be found on the box and on a decal on the machine.

You do not need to register this machine for warranty. Your warranty is based on your purchase invoice and will start on the day of purchase. It is recommended you keep the invoice with the manual in case you need it.

PRODUCT IDENTIFICATION

Model Number:		
Serial Number:_		
Date of Purchas	e:	
Dealer Name:		

SAVE THESE INSTRUCTIONS - SAFETY RULES



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

The safety alert symbol () is used with a signal word (DANGER, CAUTION, WARNING), a pictorial and a safety message to alert you to hazards.

DANGER indicates a hazard that, if not avoided, will result in death or serious injury.

WARNING indicates a hazard that, if not avoided, could result in death or serious injury.

CAUTION indicates a hazard that, if not avoided, might result in minor or moderate injury.

NOTICE indicates a situation that could result in equipment or property damage.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

WARNING – When using this product, the following precautions should always be observed and adhered to.

- 1. Read all instructions before using the product.
- To reduce the risk of injury, close supervision is necessary when a product is used near children.
- Know how to stop the product and bleed pressures quickly. Be thoroughly familiar with the controls.
- 4. Stay alert. Watch what you are doing.
- Do not operate the product when fatigued or under the influence of alcohol or drugs.
- 6. Keep operating area clear of other people.
- 7. Do not overreach or stand on unstable support. Instead, keep solid footing and balance at all times.
- 8. Follow the maintenance instructions specified in the manual.

IMPORTANT WARNINGS

Failure to observe warnings will void the warranty or cause injury.

- 1. Do not let the pressure washer overheat. Excess heat will cause serious damage (see page 10 for details).
- Never run the unit without water. Running the pump dry will cause it to fail quickly.
- Do not let the unit freeze. Frozen water in the pump will cause severe damage.
- 4. Always wear eye protection when operating the unit.
- High-pressure spray can cause serious bodily injury or damage to soft material. Use with caution.
- 6. Never adjust the unloader to exceed the preset pressure. Premature wear, equipment failure, or injury may occur.



PERSONAL SAFETY

▲ WARNING - Always wear correct personal protection equipment because the high-pressure spray can launch debris at high velocity creating a risk of injury or damage.

- ALWAYS wear safety goggles for eye protection. Other protective equipment such as hearing protection, steel toe boots, safety apparel, work gloves and face shield are all recommended.
- NEVER pressure wash without closed-toe foot protection in case of accidental spray.
- ALWAYS be aware of where the spray gun is pointing and your environment
- NEVER point it at people or animals.
- DO NOT let children or unqualified people operate this machine.
- DO NOT use the machine when fatigued or under the influence of alcohol or drugs.

GENERAL PRESSURE WASHER SAFETY

▲ DANGER − High-Pressure Spray

- NEVER point the gun at yourself, anyone else, or animals.
- The high-pressure water stream can cut through clothing, skin and underlying tissues leading to serious injury.
- If this type of injury occurs, DO NOT TREAT AS A SIMPLE CUT. SEEK EMERGENCY MEDICAL ATTENTION IMMEDIATELY. If you are using cleaning detergents, be prepared to tell the physician exactly what kind.
- Spray guns can have significant kickback. ALWAYS brace yourself and have firm footing when operating.
- NEVER aftempt to repair high-pressure hose, fittings or gun. Always replace parts if they are leaking or damaged.
- NEVER bypass the trigger assembly. This is an important safety feature of the system.
- NEVER leave a running machine unattended.
- Use CAUTION even when the machine has been turned off. Pressure can be trapped in the pump and hose assembly and still inflict injury or damage. After turning the machine off, always squeeze the trigger to release any trapped pressure.
- ALWAYS ensure all component connections and fittings are securely fastened.
 High-pressure water can turn loose fittings or spray nozzles into projectiles
 causing injury or damage.
- NEVER look directly into the gun or high-pressure hose.
- NEVER place your hand in front of the spray nozzle to test pressure.

A DANGER - ELECTROCUTION

- NEVER spray near electric power source or cords.
- NEVER let run-off water pool and flow into power sources or cords.

A WARNING - GENERAL SAFETY

- ONLY use cold water to feed into the machine. Unless specifically instructed that the machine can use hot water.
- Check the work area to make sure it is clear of hazards and debris which can be thrown by pressure spray causing injuries or damage.
- ALWAYS be aware of surfaces that will become wet and may become slippery.
- ALWAYS have a secure grip of the gun and stable footing.

- ALWAYS ensure proper drainage to avoid water flooding into unwanted areas.
- NEVER operate machinery that is damaged or missing components.
- NEVER modify the machine in any way.
- DO NOT move the machine by pulling on the hoses or cords. Instead, use the handle on the frame to move the machine when needed.
- Use CAUTION when spraying soft materials such as plants or wood because the high-pressure spray can damage them quickly.
- Use CAUTION when spraying brittle materials such as glass, that may break apart, creating dangerous projectiles.
- Use only recommended accessories. DO NOT force or modify parts to fit.
- ALWAYS turn off the engine and disconnect the spark plug for any maintenance procedures.
- NEVER attempt to maintain the machine while it is operating. Moving parts and pressure can cause serious injuries.
- Keep machine out of the rain and elements.
- ALWAYS operate the machine on a level surface. It may seize if operated at an angle.

A WARNING - CHEMICAL DETERGENTS/SOAPS

- ALWAYS use detergents explicitly designed for a pressure washer.
- NEVER use any flammable, corrosive or acidic solutions.
- **NEVER** modify the chemical injector system.
- ALWAYS flush the system after using a detergent. Run the machine for at least two minutes with clean water to prevent detergent from drying and building up residue. If residue builds up, it may cause the chemical injector system to fail.
- ALWAYS BE PREPARED for an emergency involving detergents. Know exactly what the detergent contains. If an emergency occurs and a physician needs this information, Safety Data Sheets (SDS) are available and should be easily accessible.
- ALWAYS keep detergents away from children and animals.
- Keep an eyewash kit available in case of emergency.

GAS ENGINE SAFETY

If your pressure washer has a gas engine, the engine will have its own manual. Thoroughly review and understand the engine manual.

A DANGER - TOXIC FUMES

- **ALWAYS** operate the machine outdoors in well-ventilated spaces.
- The emissions from the engine include the poisonous gas carbon monoxide.
 It is a colorless, odorless gas that will displace oxygen and be lethal in high enough concentrations.
- Symptoms of carbon monoxide poisoning include headache, fatigue, dizziness, nausea, confusion, vomiting, and seizures. If poisoning continues, unconsciousness and death will occur.
- At the first sign of any symptoms, IMMEDIATELY shut off the machine and move into a well-ventilated area and seek medical attention.
- Carbon monoxide is heavier than atmospheric air and will fill in low spaces first. Use EXTREME CAUTION when operating in low spaces such as trenches, tunnels or ditches.
- NEVER position the machine where the exhaust can go through windows, doors, ventilation or other access points that lead indoors or to confined areas.
- NEVER use a respirator as protection against carbon monoxide. The ONLY
 protection that can be relied on is a positive pressure fresh air supply system,
 such as a SCUBA system.



▲ DANGER – FUEL RELATED FIRE AND EXPLOSIONS

- Fuel and its vapors are highly flammable and explosive.
- Fire and explosion can cause severe burns and death.
- NEVER fill the fuel tank while the unit is running.
- ALWAYS turn the engine off and let it cool at least two minutes before removing fuel cap. Loosen the fuel cap slowly to relieve tank pressure.
- ALWAYS fill or drain the fuel tank outdoors.
- DO NOT overfill the tank. Leave an airspace in the neck of the fuel tank to allow it to breathe and for fuel expansion.
- NEVER have any spark or flame near the fuel, including cigarettes, open flame, pilot lights and other ignition sources.
- If fuel spills, wait until it evaporates completely. Move the unit to a new location, then wait at least two minutes before starting the engine.
- NEVER crank the engine with the spark plug removed and still in its boot.
- When transporting or putting the unit into storage, drain the fuel tank and carburetor and store the fuel in an airtight container. Then, move the fuel valve into the closed position.
- · Never store fuel near any ignition source or hot surface.

A CAUTION - HOT SURFACES

- The muffler on the engine will heat up rapidly and can cause severe burns if touched.
- Muffler exhaust will be hot and can cause burns to people and objects.
- · Keep flammables away from the muffler.
- Keep at least a five-foot clearance from the exhaust to prevent damaging other surfaces such as house siding and vehicles.
- The pump will also become hot during operation and should be avoided.
- After the pressure washer has been started, DO NOT touch any part of the pressure washer other than the on/off switch, handle, hose and gun.

A CAUTION - RECOIL KICKBACK

- Starter cord kickback (rapid retraction) can result in bodily injury.
- Kickback can pull your hand and arm back towards the engine faster than you
 can let go causing sprains, cuts, bruising and bone fractures.
- NEVER pull the starter cord without first relieving the spray gun pressure.
- When starting an engine, the best practice is to have the trigger squeezed to prevent pressure from building up in the system.
- Pull the starter cord until you feel resistance. Allow the cord to retract back and then pull the starter to avoid kickback and injury.

ELECTRIC PRESSURE WASHER SAFETY

A DANGER - RISK OF ELECTROCUTION

- **NEVER** spray an electric pressure washer, its cord, or power source.
- NEVER leave the machine exposed to rain or the elements.
- NEVER modify the plug or cord.
- NEVER use an adapter so the plug will fit into a different outlet.
- NEVER touch the cord or plug with wet hands or when standing in water.
- ALWAYS replace damaged components, including plug and cord. DO NOT attempt to repair.
- ALWAYS ensure power source matches the pressure washers' requirements.
- ALWAYS use a licensed electrician if any electrical work needs to be done.
- ALWAYS unplug the motor from the power source before attempting repairs or maintenance.

A DANGER – GROUNDING

- This product must be grounded. If this machine malfunctions, grounding provides a path of least resistance for electric current, reducing the risk of electrocution.
- Ensure the plug has all three prongs it came with and is plugged into an appropriate outlet that is grounded in accordance with local regulations.



- If your machine is equipped with a Ground Fault Circuit Interrupter (GFCI), DO **NOT** remove or alter it. Replace if damaged.
- If the GFCI is dropped or damaged, be certain to test it to make sure it is still working correctly.

▲ WARNING – EXTENSION CORDS

- · The use of extension cords is not recommended.
- If the use of an extension cord is unavoidable, then it must be plugged into a GFCI found in circuit boxes or protected receptacles
- ALWAYS use a 3-wire extension cord that has three prongs for proper grounding. **DO NOT** yank or pull on extension cords.
- **ALWAYS** replace if damaged.
- The extension cord gauge MUST be adequate for the power demands of the pressure washer to prevent stalling, overheating or short-circuiting.

HOW TO CONTROL PRESSURE

- The pressure washer is preset at the factory to deliver the optimum performance for its set up.
- Do not adjust the unloader.
- · Adjusting the unloader can lead to failures, including poor performance, engine stalling, and breaking internal parts of the pump and unloader.
- · The primary method of controlling pressure is by the distance between the nozzle and the surface. Always start far away and slowly move closer to the surface.
- The angle of spray to the surface will also influence pressure. For example, coming at the surface at a 90° angle will have more impact force than a shallow angle.
- Pressure can also be controlled by the type of nozzle that is put into the tip. The wider the spray, the less pressure directly impacting the surface.
- Pressure can also be decreased by using nozzles with a larger orifice size.
- Be careful when cleaning any soft surface like wood or anything that can crack or break apart, like glass or paint.

DO NOT OVERHEAT YOUR MACHINE

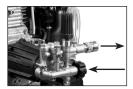
Do not let your machine overheat. Failure to do so will result in damage, void warranty, or cause injury.

Gas engines and electric motors are air-cooled. Always ensure that the machine is operated in a well-ventilated area where it can draw a steady supply of fresh air. If the motor overheats, it may shut down, rapidly burn oil, and result in component failure. The arrows below show an example of locations for air intake on an engine.

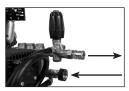




Pumps are cooled on the front end by having fresh water run into the pump, then spray out of the gun wand. To maintain the water flow, keep the trigger of the gun depressed to keep spraying out water. Do not let the machine run for more than 30 seconds without pressing down on the trigger. If the pump is left to overheat (not spraying water), it may experience thermal shock when cold water is introduced to the system once water is sprayed out again. This thermal shock can result in multiple component failures.



Axial Pump



Triplex Pump

Most pumps are protected by a thermal valve. The thermal valve releases water if a pump starts to run too hot. It will prevent catastrophic heat failure. However, the pump may have suffered damage and need maintenance, repair, or replacement. The thermal valve will need to be replaced once it is triggered.

The back end of the pump is cooled by maintaining the proper level and quality of oil pump oil. Always check the oil level on the back of the pump by using the dipstick or sight gauge. Use 30w non-detergent oil if it needs to be added or replaced.



FUEL AND OIL TYPES

ENGINE FUEL TYPE

Use only regular unleaded gasoline rated at 86 octane or higher. The best fuel to use will have a 0% ethanol blend. However, the engine can use a fuel with an ethanol blend of up to 10%.

ENGINE OIL TYPE

Use only SAE 10W30 motor oil for the engine. To check the oil, unscrew the engine dipstick. Then, wipe off the oil with a clean rag and dip it back into the engine. The oil should be well within the oil level markings.

Note* the engine will have two oil caps. Only one will have a dipstick.

ENGINE TYPE	FUEL TANK CAPACITY	OIL CAPACITY
Honda GC160	1.8 L / .48 US Gal	0.58L / 061 US qt
Honda GC190	1.8 L / .48 US Gal	0.58L / 061 US qt
Honda GX200	3.1 L / .82 US Gal	0.6L / 0.63 US qt
Honda GX270	5.3 L / 1.4 US Gal	1.1 L / 1.16 US qt
Honda GX390	6.1 L / 1.6 US Gal	1.1 L / 1.16 US qt
Honda GX690	N/A	2.0 L / 2.1 US qt
Powerease 212	3.6 L / 0. 95 US Gal	0.6L / 0.63 US qt
Powerease 225	3.6 L / 0.95 US Gal	0.6L / 0.63 US qt
Powerease 420	6.7 L / 1.7 US Gal	1.1 L / 1.16 US qt

PUMP OIL TYPE

For pressure washer pumps, use only SAE 30W non-detergent oil. Never use motor oil in your pressure washer pump because it will destroy the seals. Never overfill the pump.

- If your pump has a sight glass, then fill halfway up to the middle of the red dot.
- If your pump has a dipstick, then fill to the mark on the dipstick.
- If your pump doesn't have a sight glass or dipstick, then it is a sealed unit, and the owner doesn't have to be concerned with maintaining the pump oil.



The following diagrams are intended for general reference.

Your pressure washer may differ from the models shown in the following pages. For specific model information, please visit bepowerequipment.com



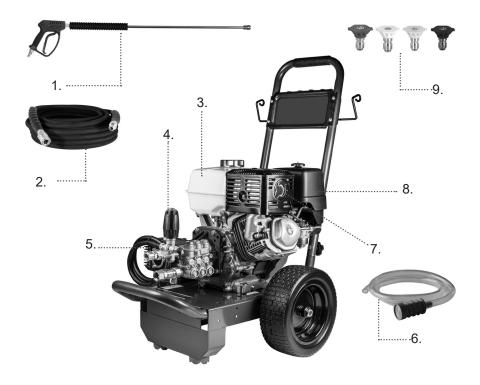
- Spray Gun Controls the application of water onto the cleaning surface with a trigger device. Includes trigger lock. Allows you to switch between various spray nozzles.
- 2. High-Pressure Hose Designed to withstand the pressure created by the pump.
- 3. Air Filter Protects the engine by filtering dust and debris out of intake air.
- 4. Fuel Tank FIII tank with regular, unleaded fuel. Always leave room for fuel expansion.
- (Top) Choke Rod Prepares a cold engine for starting.
 (Bottom) Throttle Lever Controls RPM speed of the engine.
- 6. Recoil Starter Used for starting the engine manually.
- 7. Soap Tank (Not included on all models) Fill with pressure washer detergent only.
- Pump Develops high pressure. Connect the garden hose to the inlet of the water pump, and connect the high-pressure hose to the outlet. Connections vary by model.
- 9. Muffler/Exhaust Reduces noise of the engine and expels heat.
- 10. Detergent Siphoning Hose Used to draw detergent into the low-pressure stream.
- 11. Spray Nozzles 0°, 15°, 40° and Detergent: for various cleaning applications.

COMPONENTDIAGRAMS



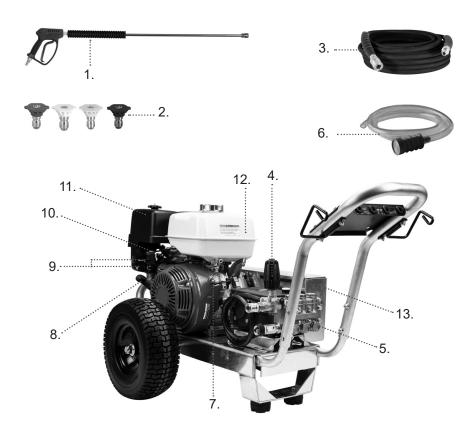
- Spray Gun Controls the application of water onto the cleaning surface with a trigger device. Includes trigger lock. Allows you to switch between various spray nozzles.
- Spray Nozzles 0°, 15°, 40° and Detergent: for various high-pressure cleaning applications.
- 3. High-Pressure Hose Designed to withstand the pressure generated by the pump.
- 4. Unloader Pressure is preset at the factory.
- Pump Develops high pressure. Connect the garden hose to the inlet of the water pump, and connect the high-pressure hose to the outlet.
- Oil Level Indicator Level should be at halfway (not included for all models).
- Detergent Siphoning Hose Use to siphon pressure washer-safe detergent into the low-pressure stream.
- 8. Fuel Tank Fill tank with regular unleaded fuel. Always leave room for fuel expansion.
- 9. Air Filter Protects engine by filtering dust and debris out of the intake air.
- 10. Throttle Lever Controls RPM speed of engine.
- (Top) Choke Lever Prepares a cold engine for starting.
 (Bottom) Fuel Valve Used to turn fuel supply on and off to the engine.
- 12. Recoil Starter Used for starting the engine manually.
- **13.** Engine Switch Set switch to "On" for recoil starting. Set switch to "Off" to stop a running engine.





- Spray Gun Controls the application of water onto the cleaning surface with a trigger device. Includes trigger lock. Allows you to switch between various spray nozzles.
- 2. **High-Pressure Hose -** Designed to withstand the pressure created by the pump.
- 3. Fuel Tank Fill tank with regular, unleaded fuel. Always leave room for fuel expansion.
- 4. Unloader Pressure is preset from the factory.
- Pump Develops high-pressure. Connect the garden hose to the inlet of the water pump, and connect the high-pressure hose to the outlet. Connections vary by model.
- **6. Detergent Siphoning Hose -** Used to draw detergent into the low-pressure stream.
- 7. Muffler/Exhaust Reduces noise of the engine and expels heat.
- 8. Air Filter Protects engine by filtering dust and debris out of the intake air.
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COMPONENT DIAGRAMS



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- 10. Throttle Lever Controls RPM speed of engine.
- 11. Air Filter Protects engine by filtering dust and debris out of the intake air.
- 12. Fuel Tank Fill tank with regular unleaded fuel. Always leave room for fuel expansion.
- 13. Belt Drive Cover Shields the belt and pulley drive system.





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- 7. Inlet Connection for the water source such as a garden hose.
- 8. Outlet Connection for the high-pressure hose.
- 9. Motor Power source that spins the pump

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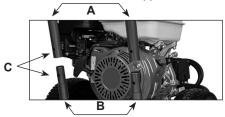
Your pressure washer will require some assembly. If you have any trouble with this process, please call our tech support department (1-866-850-6662) with your model number.

Unpack your pressure washer

- Remove all the components, including bags and manuals.
- Inspect components to make sure there is no visible damage.

ATTACH HANDLE

 Remove any plastic coverings that may be on the handle. Place handle (A) onto handle supports (B) connected to the frame. Make sure holes (C) in handle align to the holes on the frame supports.



NOTE: These diagrams are intended for general reference. As a result, they may not fully reflect the appearance of your product.

2. Insert the bolts through holes. The carriage bolts will have hex heads that need to be matched to the side of the handles with a hex shaped hole pattern to help secure them.



3. Insert colored quick connect spray nozzles, high-pressure hose, gun wand assembly into the spaces provided.



 If needed, attach the provided detergent siphoning hose to brass barb coming out of the pump near the high-pressure outlet. (Do not attach to the black plastic thermal relief valve barb.)

ASSEMBLY

Assemble the gun wand. The trigger assembly will be threaded onto the wand. Hand tighten only.

HOSE CONNECTIONS

- Quick connect fittings: pull back the collar of the coupler, insert plug, and release the collar. Tug on fittings to confirm a secure lock.
- M22 Fittings: Line up the insert and thread together so it is hand tight. Do not overtighten.
- Spray Nozzles: To attach a spray nozzle to the end of the wand, pull back on the collar of the brass fitting. Insert the spray nozzle and release the collar. Tug on the nozzle to make sure it is secure. If it is loose, the high-pressure water will launch it out and may cause injury or damage.

Your pressure washer will come with several colored spray nozzles that will have different spray patterns and abilities.

0° Nozzle (Red)	Concentrated stream to break apart baked-on mud or dirt. Use with caution.
15° Nozzle (Yellow)	Narrow spray pattern that is aggressive and best used on hard surface to remove tough dirt.
25° Nozzle (Green)	General purpose spray pattern. Slightly wider, but still fairly aggressive.
40° Nozzle (White)	Wider spray pattern for large areas or softer surfaces.
Black Soaper Nozzle	Low pressure nozzle. This is the only nozzle that can be used with the chemical injector system.



- 1. Before operating the pressure washer, ensure you are familiar with all the warnings and safety recommendations.
- 2. Wear proper clothing and eye protection.
- 3. Always setup the machine where:
 - 3.1 It is on a level surface. If the machine is not level, it may not start or cause failures.
 - 3.2 There is sufficient ventilation.
 - 3.3 There are no signs of oil or gas leaks, including gas vapors.
 - 3.4 The machine is not exposed to rain, snow or freezing temperatures. These harsh conditions can lead to component failure causing damage or injury.
- 4. Ensure that oil levels for the engine and pump are correct.
 - 4.1 Use 10W30 oil to fill the engine if needed.
 - 4.2 Use 30W non-detergent oil to fill the pump if needed.
- If the pump has an oil cap dipstick, make sure it is the breathing oil cap instead of the sealed travel oil cap. If the sealed travel oil cap is left in, the pump will over pressurize and blow it out.
- Inspect the overall condition of the unit. Make sure there are no fuel or oil leaks or damaged parts. If any leaks or damaged parts are detected DO NOT start the pressure washer until it is fixed.
- Connect the high-pressure hose to the pump and the gun wand assembly to the other end of the hose.
- 8. Connect the garden hose to the pump.
 - 8.1 Ensure the inlet filter on the pump is present, intact, and clean before connecting the garden hose.

WATER SUPPLY MUST BE SUFFICIENT TO SUPPLY THE PUMP ADEQUATELY.

Every pressure washer has a Gallons Per Minute (GPM)/ Liters Per Minute (LPM) rating that must be adhered to. If the pump does not get enough water, it will cavitate (starve for water). This will cause internal damage and pending failure.

To measure your water source GPM/ LPM, you will need a container that you know the exact size such as a 5-gallon/20-Liter bucket. When you're ready, start filling it from your water source while timing it for one minute. The amount of water in the 5-gallon/20-liter bucket after one minute is the GPM/LPM rating.

The water source GPM/ LPM should exceed the GPM/ LPM rating of the machine by one GPM/ LPM to account for any fluctuations from the water source.

The water source should have 20 to 60 PSI/1.38 to 4.1 BAR pressure going into the pump. Do not use a hose longer than 50ft/15m to the water source.

PRIME THE PUMP WITH WATER

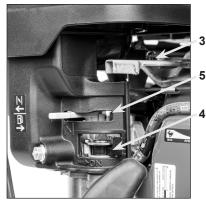
Once all the hoses are connected, turn on your water supply and hold down the spray gun's trigger. Let water flow through it until all the air bubbles are worked through, and there is a constant stream of water coming out the nozzle.

Insert the color spray nozzle that you plan to use. Make sure the nozzle is clean with no damage or blockages.

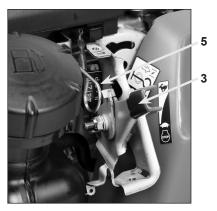
GASENGINESTARTPROCEDURE

- 1. Fill the fuel tank with gasoline. Use regular unleaded, 86 octane or higher that has no more than 10% ethanol blend.
- Do not overfill the fuel tank. Always leave a space to allow the tank to breathe and the fuel to expand.
- 3. Set to full throttle.
- 4. Turn the fuel valve to the ON position.
- 5. Activate Choke if the engine is cold. On a Honda GX and Powerease engine move the choke lever to the left. On a Honda GC engine, pull the choke tab out.

· HONDA GX ·POWEREASE



· HONDAGC



- Put engine switch to the ON position.
- · HONDA GX ·POWEREASE



Honda GC engine does not have an on/off switch. To turn into the on position, move the throttle all the way to the top.

- 7. With one hand, squeeze the trigger of the spray gun open, so the water is flowing. Brace the pressure washer with your foot. With the other hand, grip the recoil handle and slowly pull it out until you feel resistance. Pull briskly on the recoil. You may have to pull it several times before it starts running.
- 8. Once the engine has warmed up, disengage the choke lever by moving the lever to the right to smooth out the engine. If it stalls, then it needs to get warmer before the choke is turned off. Restart the engine, let it warm up, and then try turning the choke off again.

Important Note: The pressure washer has been designed to run at full throttle. If you lower the throttle then the load-to-power ratio between the engine and pump will be incorrect. This will cause undue strain on the system while pressure washing, causing parts to wear quicker.



GASENGINESTOPPROCEDURE

In normal operation, to stop the engine:

- 1. Review all the safety warnings at the beginning of this manual.
- 2. Throttle down the machine.
- 3. While holding the spray gun trigger, turn off the engine. If you do not hold down the trigger while turning it off, then trapped pressure may cause the hose and spray wand fittings to seize.

 4. Turn the fuel valve to the OFF position.

Emergency Stop: Switch the engine to the OFF position immediately. This will stop the engine right away, but may trap pressure in the system, which may prevent restarts or the ability to remove the hose or spray gun.

- 1. Turn off the water source, and squeeze the trigger again to release pressure and water before disconnecting the hoses.
- 2. Drain the water out of the hoses before putting into storage.



· HONDA GC

Honda GC is switched off when the throttle lever is fully lowered to the bottom.



· HONDA GX ·POWEREASE

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ELECTRIC MOTORS WITH AUTO STOP-START SYSTEM

ELECTRIC MOTOR START PROCEDURE

- 1. Review all the safety warnings at the beginning of the manual. Turn the motor to the off position.
- Follow all the pre-operation steps before starting.
- 3. Connect pressure washer to a power source that matches the unit's requirements. It is critically important to have the pressure washer connected to the correct power source, including volt, amp, and circuit breaker capacity. Using a wrong power source will prevent start up, or damage the motor causing it to fail.
- 4. Hold the spray gun, point it in a safe direction and squeeze the trigger.
- 5. Locate the ON/OFF switch on the pressure washer. Brace yourself for possible kickback from the spray wand, and turn machine on.

If your electric pressure washer is equipped with an auto start/stop system, it will completely turn off when the spray gun trigger is released. Both pump and motor will be inactive even though it is plugged in and turned on. When the trigger is squeezed, the system will detect this and turn on. There will be a time delay between depressing/releasing the trigger and the machine turning on/off.

Always turn the machine off when it is not going to be used for a significant period of time. Do not rely on the auto start/stop system because if it fails, it will lead to pump and/or motor failures.

ELECTRIC MOTOR STOP PROCEDURE

- 1. Keep the spray gun trigger squeezed and pointing in a safe direction.
- Turn the motor to the off position.
 Keep trigger squeezed to make sure all the pressure is released and it is only garden hose pressure.
- 4. Unplug machine (if applicable, some may be hard wired).
- Disconnect and drain hoses.

GENERAL PRESSURE WASHER OPERATION TECHNIQUES

- Always follow safety practices as outlined.
- 2. Always begin spraying at a safe distance from the intended surface and move closer until the desired cleaning effect can be observed.
- 3. Generally, do not use a 90° spray angle. Instead, it is usually more effective to use a shallower angle so that the reflecting spray can be directed in safe and controlled direction.
- 4. Holding down the trigger, move the wand side-to-side to clean the surface. Once you get a feel for how the cleaning performance behaves you will naturally find your rhythm.
- 5. Always be aware of what you are spraying and take greater care on fragile surfaces such as wood or glass to prevent damage.
- 6. Always remember to squeeze the trigger once every 30 seconds to flush the pump with cool water to prevent overheating.

 7. If you have to stop washing for more than a few minutes, you should turn off
- the machine.



CLEANINGWITHDETERGENTS

CLEANING WITH DETERGENTS

- 1. The black soaper nozzle must be installed on the spray gun wand. It is the only nozzle that will draw soap through the pressure washer system.
- 2. The detergent being used must have thin viscosity (similar to water).
- 3. Prepare the detergent in a container next to the pressure washer.
- Connect the clear detergent suction tube to the brass barb on the pressure washer pump, and put the end with the filter into the detergent container.
- Turn on the pressure washer and spray the water. You will be able to see the detergent moving through the suction tube. Once the detergent is spraying out the nozzle, it will cause foam to appear.
- When using detergent, spray the desired area and give it some time for the soap to chemically breakdown the dirt chemically. Then, wash it off with water before it dries.
- 7. When you are finished using the detergent you must flush the chemical injector system to prevent detergent residue from building up. To rinse, submerge the detergent suction tube into a container of clean water and spray for at least two minutes while drawing the clean water through the soap system.

STORAGE

Improper storage of the pressure washer will lead to failures that are not covered by warranty.

In general, cover the pressure washer and store it in a clean and dry location. Wipe off any dirt or water.

A WATER - FREEZING WARNING

Leaving water in the pump and accessories can result in damage if the water freezes. Water will expand when it turns to ice. The resulting force will cause ruptures and crack brass fittings, valves, and seals requiring complete replacements (not warrantable).

- 1. When the unit is not in use, drain all the hoses and spray gun assembly.
- 2. If the unit is going to be stored for a extended period, or if there is any chance the pressure washer will be exposed to freezing temperatures, then plumbing/RV anti-freeze must be cycled through the pumps water ways.
- 3. We recommend using BÉ Power Equipment Pump Saver Anti-Freeze. It has a specially designed cap to thread right onto the garden hose fitting of the pump. (Part number 85.490.046, contact your local dealer).
- 4. To apply, first ensure the engine and fuel valve are in the OFF position.
- 5. Thread the bottle onto the garden hose fitting of the pump and open the valve on the cap. Pull the recoil to cycle the anti-freeze solution through the pump. It is recommended to squeeze the bottle to force the anti-freeze into the pump if needed. Continue until it comes out of the high-pressure hose fitting. At this point, anti-freeze is protecting all the internal water chambers of the pump.
- 6. The best defense against freezing is to store the pressure washer in a warm location that will not be exposed to freezing temperatures.

A GASOLINE ENGINE FUEL SYSTEM WARNING

Gasoline degrades overtime and will leave solid residues if it dries out in your fuel system. This will clog the fuel system and result in failure to start the machine (not warrantable).

- Fuel degrades quicker the more it is exposed to air, and the greater the ethanol percentage blend.
- Fuel stabilizer is strongly recommended to slow down the degradation process of fuel. Best practice is to mix the fuel stabilizer in the fuel storage container.
- 3. If the unit will not be used within 30 days, then drain all the fuel from the tank and carburetor.
 - 3.1 Use fuel stabilizer in the tank to mix with the fuel.
 - 3.2 To drain the fuel, have a container ready to catch the fuel.
 - 3.3 Use a wrench to loosen the bottom bolt of the carburetor and let all the fuel pour into the container. Once it stops, tighten the bolt. The fuel stabilizer that was put in the tank earlier will help prevent any residue fuel from drying into a hard residue.
 - 3.4 Open the fuel valve of the engine.
 - 3.5 To prevent wasting fuel, you can use the drained fuel in any vehicle that uses the same type of fuel.
 - 3.6 When storing gasoline, always use an airtight jerry can and fuel stabilizer for best results. Best practice is to store fuel for no more than a year before using it.



GASOLINE ENGINE

Refer to the engine manual that came with your pressure washer for details. Routinely check:

- 1. Oil level and condition
- 2. Air filter
- 3. Sparkplug
- 4. Watch for leaks

ENGINE MAINTENANCE SCHEDULE			
	Check	Every Use	
Engine Oil	Replace	After the first 20 hours of operation. After every 100 hours there after. Inspection shows oil is dirty.	
Air Filter	Check	Every Use	
Air Filler	Replace	When dirty or damaged.	
Fuel Lines	Check	Every Use	
Fuel Lines	Replace	When damaged/leaking fuel.	
Fuel Can Filter	Check	Every Use.	
Fuel Cap Filter	Replace	When unable to clean or if damaged.	
Spark Arrestor	Check	Every 25 hours.	
(iḟ applicable)	Replace	When unable to clean or if damaged.	
Consult Diver	Check	Every 100 hours.	
Spark Plug	Replace	When unable to clean or adjust	
Valve Clearance	Check	Every 300 hours.*	
Idling RPM	Check	Every 300 hours.*	
*Have serviced at an authorized service center.			

ELECTRIC MOTOR

No special maintenance needed. Keep clean.

PUMP MAINTENANCE

- Applicable for pumps that have sight glasses and dipsticks where the oil can be inspected and changed.
- Does not apply to sealed pumps which are maintenance free. These pumps are identified by having no way to check or change the oil. (No sight glasses or dipsticks).

MAINTENANCE

PUMP MAINTENANCE SCHEDULE		
Oil Condition	Inspect before every use	
First oil change 25 hours		
Then Change after Every 250 hours of use, 12 months. Inspection shows oil is dirty		

If oil is milky in color, then water has leaked into the crankcase. Further inspections will be needed, including pump seals and ceramics plungers.

Fittings: Inspect for leaks and damage. Replace parts as needed.

WATER INLET FILTER

- Inspect before every use
 Rinse clean when dirty
 Replace when damaged or leaking



GAS ENGINE TROUBLE SHOOTING			
PROBLEM	CAUSE SOLUTION		
	No Fuel.	Fill with fresh regular unleaded fuel	
	Fuel is stale or contaminated.	Remove old fuel, replace with fresh fuel. May need to clean fuel system.	
	Low Oil.	Fill with 10W30 motor Oil.	
	Engine is switched off.	Turn switch to the ON position.	
F	Low RPM setting.	Turn throttle to full RPM (Rabbit).	
Engine will turn over, but doesn't	Choke not engaged.	Turn choke on.	
start (recoil can be	Fuel Valve is off.	Turn fuel valve on.	
pulled normally)	Air filter too dirty.	Clean or replace.	
	Fuel tank is overfilled and cannot breathe.	Drain some fuel to allow it to breathe.	
	Oil in Carberator.	Remove the bolt from bottom of carburetor and flush with fuel.	
	Unloader set too tight.	Back off unloader.	
	Gasoline in engine crankcase	Carburetor is plugged. Need to clean carburetor and engine.	
	Trapped pressure in the pump.	Squeeze Trigger of the gun to release pressure.	
Unable to pull Recoil (recoil feels	Oil In Air Filter.	Remove and replace air filter. Clean excess oil.	
seized)	Oil In spark plug cyclinder.	Remove and clean spark plug. Clear out oil from cycliner.	
	Unloader set too tight.	Back off unloader.	
	No Fuel.	Fill with regulatar unleaded fuel.	
	Low Oil.	Fill with 10W30 motor Oil.	
Engine runs then	Unloader set too tight.	Back off unloader.	
stops	Fuel Cap, or breather tube not breathing (where applicable).	Loosen fuel cap and if the machine runs, then clean or replace fuel cap/valve.	

Engine runs then stops	Fuel is stale or contaminated.	Remove old fuel, replace it with fresh fuel. May need to clean any fuel valves, carburator or filters.
	Leaking fuel.	Inspect for leaks and repair.
Rough running/ odd sound	Choke is still engaged.	Turn choke off.
	Engine not at full throttle.	Turn engine to full throttle (rabbit).
	Air Filter Dirty.	Check air filter, replace if needed.
	Clogged Exhaust or Spark Arrestor.	Clean or replace as needed.

PUMP TROUBLE SHOOTING				
No water going	No water source attached.	Connect garden hose to pump.		
through pump (with no hose/ gun attached)	Water source is blocked.	Confirm water is flowing through hose without obstruction.		
gan anaonoa)	Inlet filter plugged.	Clean or replace inlet filter.		
	Low water inlet pressure.	Ensure inlet GPM/LPM flow is enough for pressure washer.		
	Partially blocked water flow.	Ensure water flows through all hoses and fittings.		
Low water	Gun Nozzle issue.	Ensure nozzle is clean and right size.		
pressure	Gun Failure.	The gun is leaking or blocked, may need to replace.		
	Water leaks in system.	Locate water leak, and fix or replace.		
	Unloader not properly adjusted.	Tighten unloader.		
Water not getting through the spray gun	Pressure hose not connected to pump.	Connect to pump.		
	Hose obstruction.	Check for water through hose. Clean or replace.		
	Gun failure.	May need to replace gun, especially if leaking.		
	Spray nozzle plugged.	Clean or replace spray nozzle.		
Pressure	Partially blocked inlet filter.	Remove garden hose, ensure filter is in place and clean.		
Fluctuation	Inconsistent water source.	Ensure gallons per minute flow is enough for pressure washer.		



Pressure Fluctuation	Clogged Check Valve.	Need to clean or replaces valves. Recommend call service center.
	Gun failure.	Trigger flaw, intermittedly siezed. May need to clean or replace.
	Worn valves and/or seals in head of pump.	Need to replaces seals. Recommend call service center.
Thermal Valve Leaking.	Unit was over heated.	Need to replace thermal valve.
Water in Oil. (pump oil is a milky color)	Unit overheated and thermal shocked.	Call service center, may need to replace pump.

ELECTRIC MOTOR TROUBLE SHOOTING				
	Unit is not switched on.	Turn switch to the ON postion.		
Motor doesn't start. (makes no	No power going to unit.	Check the cord for faults, make sure it is plugged into correct outlet.		
noise) (doesn't trip any breakers)	Breaker needs to be reset (wall and/or unit).	Reset Breakers.		
	Faulty on/off switch.	Replace switch.		
	Extension cord being used.	Plug directly into wall, or use much heavier guage of cord.		
Motor overheats	Unloader adjusted too tight.	Adjust or replace unloader.		
	Clogged spray nozzle.	Clean or replace nozzle.		
Motor doesn't start. (Trips wall breakers) (Trips reset on motor) (Motor only hums)	Too much pressure in the brass head.	Relieve pressure by pressing the trigger on the gun. Keep trigger held down while starting the machine.		
	Extension cord being used.	Plug directly into wall, or use much heavier gauge of cord.		
	Unloader adjusted too tight.	Back off unloader.		
	Breaker rating doesn't match the pressure washer.	For example, if pressure washer is 17amp draw, it needs at least a 20amp breakers.		
	Weak circuit breaker.	Try machine on several different outlets.		
	Wall plug in too far from main electric panel.	Try machine on an outlet closer to the panel.		

Motor doesn't start. (Trips wall breakers) (Trips reset on motor) (Motor only hums)	Nozzle size too small.	Try running machine without colored nozzle, if it works then get a larger nozzle.	
	Power source not compatible.	Confirm voltage and amp requirements of the machine, make sure power source matches up.	
	Extreme cold air temperature.	Operate in area where temperature is above 10°C.	

GFCI TROUBLE SHOOTING					
Tripped GFCI. Will not reset.	GFCI tripped.	Unplug GFCI, reset, and then plug back in.			
	GFCI has worn out and no longer functions.	Replace.			
	Damaged cord, pinching or exposing wires.	Replace cord.			
	Circuit breaker has tripped. Multiple items lose power.	Unplug unnecassary items then reset circuit breaker.			
	Short in the system between outlet and breaker box.	Call an electrian to service the problem.			

DETERGENT SYSTEM TROUBLE SHOOTING				
Not spraying detergent	Black spray nozzle not being use.	Only the black spray nozzle will work with the detergent system.		
	Blak spray nozzle clogged or damaged.	Clean or replace as needed. Orifice must be unobstructed.		
	Detergent pick-up tube is not in the solution.	Make sure the detergent container is full and the pick up tube is deeply submerged.		
	Detergent pick-up tube is not attached to brass barb.	Make sure pick up tube is attached to the brass injector barb (not the black plastic barb).		
	Detergent pick-up tube has been extrended.	If the pick-up tube is too long, it will no longer work. Use original length pick-up tube.		
	Detergent too thick.	Thin solution. The visosity needs to be similar to water.		
	Ball-bearing in detergent injector is stuck.	Carefully remove brass injector. Clean ball bearing, spring, and brass making sure parts are moving freely.		



BE Power Equipment Inc. warrants the original retail purchaser that this pressure washer is free from defects in material and workmanship for the periods set forth below. If defects are found in BE Power Equipment products within the limitations outlined in this warranty statement, BE Power Equipment, at its sole discretion, will repair or replace the product free of charge.

As per HONDA regulations, all warranty claims for a HONDA engine must be evaluated by a certified HONDA service center. Locations can be located on the HONDA power equipment website.

As per BALDOR regulations, all warranty claims for a BALDOR motor must be evaluated by a certified BALDOR service center. Locations can be located on the BALDOR motor website.

The warranty coverage begins on the date of purchase by the end-user. Valid proof of purchase must be presented with the warranty claim.

HONDA GX Engines: 3 Years

HONDA GC Engines:
 2 Years Residential
 3 Months Commercial
 POWEREASE Engines and Motors:
 2 Years or 1000 Hours

Baldor Motors:
Triplex Pumps:
5 Years
Axial Pumps:
1 Year
Accessories:
90 Days
Frame:
Lifetime

This warranty is limited to defects that occurred during regular operational use. This warranty does not cover failures due to lack of service, negligence, abuse or misuse. Including, but not limited to, freezing damage, alterations, chemical deterioration, scale build-up, rust, corrosion, thermal shock, thermal expansion, transportation damage, oil changes, valve adjustments, fuel system maintenance or using incorrect repair parts. Furthermore, Using the wrong fuel, water or power supply is considered a form of misuse.

This warranty also does not cover normal wearing such as O-rings, valves, seals, filters, sparkplugs or packings. These are considered to be maintenance items.

BE Power Equipment expressly disclaims liability for injuries to persons or property or for incidental damages, rental loss, time loss, transportation costs, or consequential damages. It is the buyer's responsibility to ensure the correct installation and application of the product purchased.

THE WARRANTY CONTAINED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR FITNESS FOR A PARTICULAR PURPOSE. BE Power Equipment does not authorize any of its dealers, service centers, agents, employees or any other party to expand, extend or modify the scope of this warranty in any manner on behalf of BE Power Equipment.

To obtain warranty, the claimant must take the product, with their original proof of purchase, to an authorized BE Power Equipment service center. These service centers are located on the website:

https://www.bepowerequipment.com/service-centers

WARRANTY

If you cannot resolve the warranty claim satisfactorily, contact the BE Power Equipment Warranty Department (1-866-850-6662). Be prepared with details of the defect, proof of purchase, model, and the pressure washer's serial number.



Cancer and Reproductive Harm

Cáncer y Daño Reproductivo

Cancer et dommages à la reproduction

www.P65Warnings.ca.gov

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BE	MAINTENANCENOTES		
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DO NOT RETURN THIS PRODUCT TO THE RETAILER CONTACT OUR CUSTOMER SERVICE if you need assistance with the assembly, operation, or if you experience a problem with your pressure washer, please call 1-866-850-6662 Monday - Friday. 8AM to 430PM PST.

NE RENVOYEZ PAS CE PRODUIT AU DÉTAILLANT, CONTACTEZ NOTRE SERVICE À LA CLIENTÈLE si vous avez besoin d'aide pour l'assemblage, le fonctionnement ou si vous rencontrez un problème avec votre nettoyeur haute pression, veuillez appeler le 1-866-850-6662 Lundi à Vendredi. De 8h à 430h PST.

NO DEVUELVA ESTE PRODUCTO AL MINORISTA COMUNÍQUESE CON NUESTRO SERVICIO DE ATENCIÓN AL CLIENTE si necesita ayuda con el ensamblaje, el funcionamiento o si tiene algún problema con su hidrolimpiadora, llame al 1-866-850-6662 Lunes a Viernes, de 8AM a 430PM PST.

PRESSURE WASHER OPERATOR'S MANUAL

MANUEL D'UTILISATION DU LAVEUSES À PRESSION MANUAL DEL OPERADOR DE LA LAVADORA A PRESIÓN

BEPOWEREQUIPMENT