



# START-UP PROCEDURE

## HOT WATER PRESSURE WASHER

MODEL:HW2765HG

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**BEPOWEREQUIPMENT**

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## TABLE OF CONTENTS

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HEAT MANAGEMENT.....	3
FUEL AND OIL TYPES.....	4
PRE-OPERATION.....	5
ENGINE STARTUP.....	6
BURNER START AND STOP PROCEDURE.....	7
ENGINE SHUT DOWN .....	8



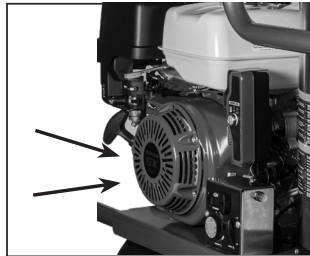
**ATTENTION:** Read through the complete manual prior to the initial use of your pressure washer.

## PRESSURE WASHER COOLING SYSTEM

### DO NOT OVERHEAT YOUR MACHINE

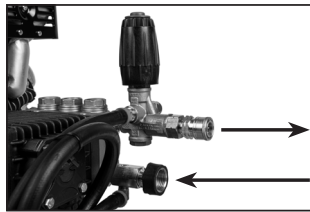
Do not let your machine overheat. Failure to do so will result in damage, void warranty, or cause injury.

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.



Engine

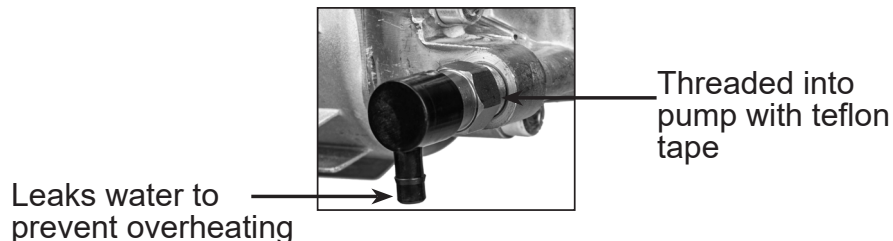
Pumps are cooled on the front end by having fresh water run into the pump, then spray out of the gun wand. To maintain the water flow, keep the trigger of the gun depressed to keep spraying out water. Do not let the machine run for more than 30 seconds without pressing down on the trigger. If the pump 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.



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 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 GX200	3.1 L / 0.82 US Gal	0.6 L / 0.63 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.

### BURNER FUEL TYPE

- The fuel tank for the burner is the black plastic container located under the engine.
- **ONLY** use No.1 or No.2 Diesel or kerosene in the black plastic fuel tank.
- **NEVER** put gasoline in the burner fuel tank. Gasoline is more volatile and burns hotter than diesel. Using gasoline is extremely dangerous and will lead to component failures.
- **NEVER** put diesel into the Honda, Vanguard or Powerease engine.
- **DO NOT** let the fuel get completely used up before refilling. Running the fuel dry is hard on all the components and may lead to more difficult startups.

MODEL TYPE	BURNER FUEL TANK CAPACITY	FUEL TYPE
HW2765HG	22.7 L / 6 US GAL	No.1 or No.2 Diesel or Kerosene



## PRE-OPERATION

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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.
5. 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.
6. 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.
7. 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. **NEVER** run without water.
  - 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.

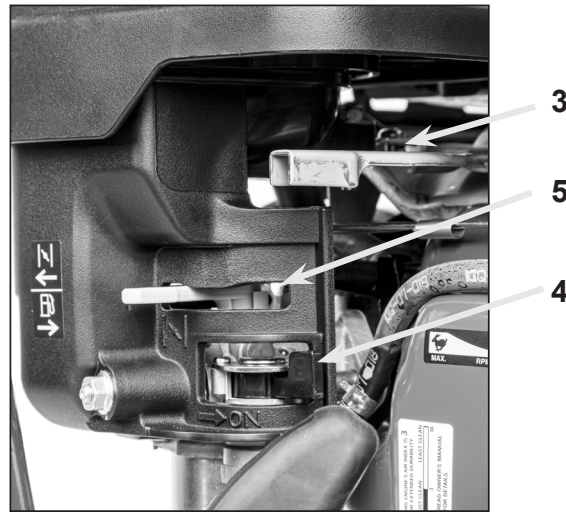
### **PRIME THE PUMP WITH WATER**

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.

### RECOIL/PULL START

1. Fill the engine fuel tank with gasoline.
2. 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 by moving the lever all the way to the LEFT.
4. Turn the fuel valve to the ON position. Move the fuel valve lever all the way to the RIGHT.
5. Activate choke if the engine is cold. Move the choke lever all the way to the LEFT.



6. Put engine switch to the ON position. The switch will be on the side of the engine.



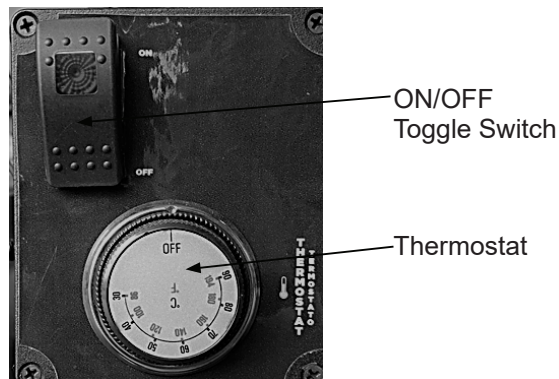
7. With one hand, squeeze the trigger of the spray gun open, so the water is flowing. Brace the pressure washer with your foot. With the other hand, grip the recoil handle and slowly pull it out until you feel resistance. Pull briskly on the recoil. You may have to pull it several times before it starts 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 and may lead to unsafe operating conditions.

## HOT WATER BURNER START AND STOP PROCEDURE

### HOT WATER BURNER START PROCEDURE

1. Fill the black fuel tank with Diesel or Kerosene (No.1 or No.2 grade)
2. The battery must be plugged in and fully charged to start the heater.
2. Once the engine is running, push the burner toggle switch to the ON position and adjust the thermostat to the desired temperature.



### NOTICE

Once the heater has been started, the water will begin heating up in about 20 seconds. It will reach maximum temperature within 2.5 minutes of continuous spraying through the gun. The burner will not fire when the trigger is released.

### WARNING

The water temperature can become extremely hot during operation.  
Use caution when operating the spray gun.

### HOT WATER BURNER STOP PROCEDURE

1. To turn off, push the burner toggle switch to the OFF position.
2. Once the heater is off, squeeze the trigger and discharge the water for three minutes to cool the heat exchanger and high pressure hose. Insufficient cool-down periods for the high pressure hose will cause excessive wear and eventual rupture of the hose.



## ENGINE STOP PROCEDURE

### ENGINE STOP PROCEDURE

1. Throttle down the engine.
2. While holding the spray gun trigger, turn off the engine by turning the engine switch to the OFF position.
3. 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.

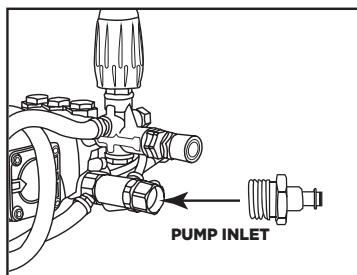
4. Turn off the water source, and squeeze the trigger again to release pressure and water before disconnecting the hoses.
5. Drain the water out of the hoses before putting into storage.



### FLUSH WATER OUT OF THE HEATER COIL

It is recommended to blow out the water out of the heater coil by using the brass blow out tool. This will help minimize scale and rust build up in the heater coil, especially when putting it into storage. An air compressor will be needed to perform this function.

1. Thread the blow out tool into the inlet of the pump.
2. Ensure air compressor regulator is set to 60 PSI or less.
3. Connect air line from air compressor to blow out tool.
4. Squeeze trigger of the pressure washer gun. Water will blow out of it from the applied air pressure.
5. Once there is no more water coming out of the tip of the gun, disconnect the airline from the blow out tool, squeeze trigger of the pressure washer gun to relieve any remaining air pressure.



If you need technical assistance call:

**1-866-850-6662**  
(8:00am - 4:30pm PST, Mon - Fri)