

# VK3000P



# VOLT<sup>TM</sup>

PRO POWER SERIES

INDUSTRIAL GASOLINE PRESSURE WASHER

## OPERATOR'S MANUAL



## WARNING

IT IS EXTREMELY IMPORTANT TO READ AND UNDERSTAND THE ENTIRE CONTENTS OF THIS OPERATOR'S MANUAL BEFORE ATTEMPTING TO OPERATE THE PRODUCT. THIS EQUIPMENT IS POTENTIALLY HAZARDOUS AND COULD CAUSE PHYSICAL INJURY OR EVEN DEATH IF IMPROPERLY USED.




# WARNING

DO NOT OPERATE THIS EQUIPMENT UNTIL READING AND UNDERSTANDING OPERATOR'S MANUAL

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The following signal words and meanings are intended to explain the level of risk associated with this product

	Indicates a hazard which, if not avoided WILL result in death or serious injury.
	Indicates a hazard which, if not avoided, could result in death or serious injury.
	Indicates a hazard which, if not avoided, could result in minor or moderate injury.



**Read and Understand  
Operator's Manual**



**Toxic Fumes**



**Wet Conditions Alert**



**Wear Eye Protection**



**Explosion**



**Fire**



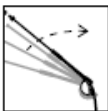
**Hot Surfaces**



**Proper Lifting**



**Injection Risk**



**Kickback**



**Electric Shock**



**Chemical Burns**

# IMPORTANT SAFETY INSTRUCTIONS

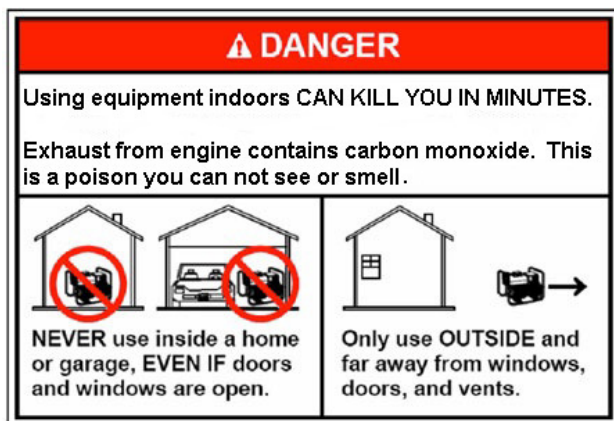
- Manufacturer shall not be responsible for any consequences resulting from improper use of this equipment. The operator is required to read the entire contents of this manual before attempting to operate the unit. If the operator does not completely understand the instructions and all of the hazards of operating this unit after reading this manual, operator must call the factory to answer these questions to operator's complete satisfaction before proceeding. **1-888-207-8658**
- Read and completely understand entire contents of this operator's manual and become familiar with the unit before attempting to start using this equipment! It is your responsibility to know its applications, limitations, and hazards! Call the factory with any questions.
- A minimum of three (3) feet of clearance on all sides is required.
- This unit is only to be used for its intended purpose; any other applications could void warranty.
- User accepts responsibility for injuries and/or damage resulting from other applications.
- Follow All codes for the safe operation of this equipment, both local and federal (*United States occupational safety and health - OSHA*).
- Only people that are well acquainted with the rules of safe operation should use the compressor.
- **KEEP** children away from the unit.
- Wear safety glasses and hearing protection.
- Do not stand on the unit or attempt use it as a hand hold.
- Inspect the entire system for leakage, weaknesses, damage or deterioration before each use.
- Replace or repair any defective parts before using.
- Do **not** fill gas tank if engine is hot. Do NOT fill the gas tank indoors.
- The engine governor is preset. Do not tamper with the setting. Excessively fast speeds will severely shorten the life of the engine and may be hazardous.

## !!! FOR OUTDOOR USE ONLY !!!

Never use this unit inside any building, enclosure or enclosed area with poor ventilation. No modifications will eliminate the danger of possible carbon monoxide poisoning, fire, or explosion.

## !!! WARNINGS AND CAUTIONS! !

The warnings and cautions in this manual, on decals and tags on the unit are not all inclusive. It would be or servicing this unit by any procedure not recommended by the manufacturer may render this equipment unsafe and may pose a threat to you or others.



### ! WARNING!

#### California Proposition 65 Warning:

Engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects and other reproductive harm

### ! WARNING!

#### California Proposition 65 Warning:

Battery posts, terminals and related accessories are known to the state of California to cause cancer, birth defects and other reproductive harm.

## !!!! REVIEW THIS MANUAL THOROUGHLY !!!

FOLLOW ALL INSTRUCTIONS PROVIDED WITHIN THIS MANUAL. THIS EQUIPMENT CAN CAUSE SERIOUS INJURY TO PEOPLE AND ANIMALS AND SEVERE DAMAGE TO PROPERTY IF OPERATED NEGLIGENTLY OR INCORRECTLY. PAY PARTICULAR ATTENTION TO ALL SAFETY INSTRUCTIONS, WARNINGS AND NOTICES.

# EQUIPMENT SPECIFIC WARNINGS

## WARNING



Read the entire important safety information section at the beginning of this manual including all text under subheadings therein therefore set up or use of this product.

Your Pressure Washer, Model PWT-3000 is a gasoline operated device that converts a water source flow into extremely high pressure. The unit is portable and mobile. The gasoline engine makes it possible to use the unit in remote areas that are void of electrical power if needed.

Pressure washer cleaning solvents can be mixed into the pressurized stream to make the cleaning even more powerful.

The powerful spray is capable of causing damage to wooden surfaces, glass, automobile paint and trim and delicate objects such as flowers or shrubs. Check the item to be cleaned before directing the pressurized spray. Adjust the stream to accommodate the subject to be washed.

- The following safety precautions **must** be observed at all times because the pressure washer and components make up a high pressure system.
- Follow all codes FOR The safe operation OF this equipment both local and federal (united states occupational safety and health OSHA).
- Only people that are well acquainted with the rules of safe operation should use the unit.
- Read and understand all manuals and instructions included with the pressure washer before attempting to use it.
- **To reduce the risk of injury**, keep children and visitors away. All visitors should wear safety glasses and be kept a safe distance from work area.
- **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.
- Do **not** stand on the unit or attempt to use it as a hand hold.
- Do **not** make adjustments to washer while engine is running. This pump is designed to handle nonvolatile, nonflammable liquids and non-corrosive liquids.
- **Dress properly.** Do not wear loose clothing, gloves, neckties, or jewelry. They can get caught and draw you into moving parts. Rubber gloves and nonskid footwear are recommended. Also wear protective hair covering to contain long hair.
- **Hold the handle and wand securely with both hands.** Expect the trigger handle to kick back when the trigger is pulled due to reactive forces. Failure to hold securely can cause loss of control and injury.
- Inspect the entire system FOR leakage, weaknesses, damage OR deterioration before each use.
- **Do not operate the product while under the influence of drugs, alcohol, or any medication.**
- Replace OR repair any defective parts before using.
- Check all fasteners regularly.
- **Check the work area before each use.** Remove all objects such as rocks, broken glass, nails, wire, or string which can be thrown or become entangled in the machine.
- DO not touch hot surfaces.
- Shut OFF The pressure washer immediately if it begins TO vibrate excessively.
- DO **NOT** fill the gas tank indoors and wipe off any spilled gas before attempting to start the pressure washer.
- **STOP** engine before leaving the area. Never leave a running unit unattended.
- **Always relieve pressure after engine has stopped!**
- Remove spark plug wire while inspecting unit to keep the unit from inadvertently restarting.
- Allow unit to completely cool before storing.
- DO not operate washer without proper water supply.
- **WARNING: High pressure jets can be dangerous if subject to misuse.** The jet must not be directed at persons, animals, electrical devices, or the machine itself.

**To disassemble the hose and nozzle, pull collar back and remove hose or nozzle.**

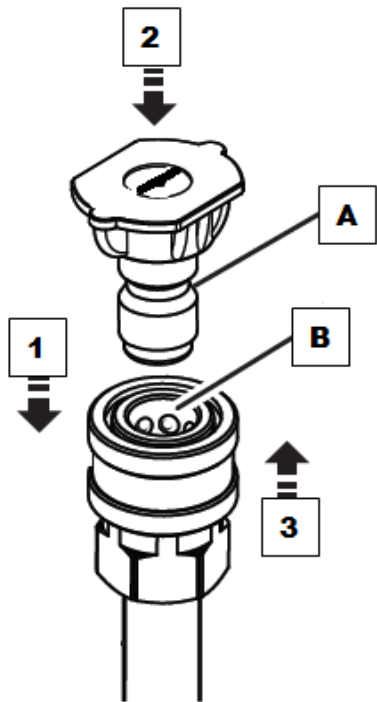


Figure 1

- A- Quick Connect (QC) Nozzle  
B- Spray wand with QC coupling.
1. Pull the collar back on the QC
  2. Push nozzle into place
  3. Push the collar back into place on the QC.
  4. Pull on the nozzle to assure that it is locked into place.

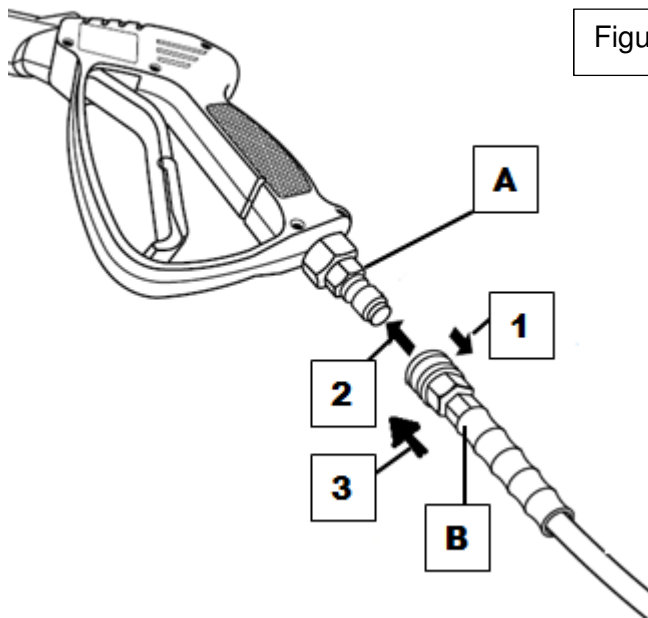


Figure 2

- A- High pressure gun with male 3/8 male plug  
B- High pressure hose with Quick Connect (QC) fitting
1. Pull the collar back on the QC
  2. Push hose into place
  3. Push the collar back into place on the QC.
  4. Pull on the hose to assure that it is locked into place.

## **⚠ DANGER**

The trigger gun traps high water pressure, even when engine is stopped. Relieve trapped water pressure in the pump, hose and trigger gun by squeezing the trigger **AFTER** the engine has completely stopped.

## **⚠ WARNING**

The water source must be turned off and **ALL** pressure released from the system prior to disconnecting the hose or changing the nozzle.



# INSPECTION AND START UP

**INSPECT YOUR PRESSURE WASHER CAREFULLY FOR ANY DAMAGE THAT MAY HAVE OCCURRED DURING TRANSIT. BE SURE TO INSPECT AND TIGHTEN ALL BOLTS, SCREWS, AND FITTINGS BEFORE ATTEMPTING TO START THE UNIT.**

**DO NOT ATTEMPT TO OPERATE A DAMAGED UNIT. IT MAY CAUSE SERIOUS INJURY OR PROPERTY DAMAGE!**

## LUBRICATION

- Check the oil prior to each operation per the engine manual.

### **WARNING**

The trigger gun traps high water pressure, even when engine is stopped. Relieve trapped water pressure in the pump, hose and trigger gun by squeezing the trigger AFTER the engine has completely stopped.

### **WARNING**

NEVER direct water stream toward people, pets, or any electrical device.

### **WARNING**

Do not use any attachments or accessories not recommended by the manufacturer. The use of attachments or accessories that are NOT recommended can result in serious injury or damage to the equipment.

## START-UP

- Properly fill engine with gas and oil. (See engine Manual)
- If desired, connect the soap line to the soap intake connection and place filter end in soap supply.
- Connect the water supply to the water intake.
- Connect the high pressure hose to the trigger gun and pump.
- Turn the inlet water hose fully to the “ON” position. Assure no kinks in the hoses.
- Before starting the engine, squeeze the trigger to allow the water to fill the pump.
- Start the engine per the supplied engine manual.

### **CAUTION**

If the engine does not start, after each pull of the recoil starter squeeze the trigger to relieve trapped pressure before attempting to start the engine.

## WARNING

- The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation
- The trigger gun traps high water pressure, even when engine is stopped. Relieve trapped water pressure in the pump, hose and trigger gun by squeezing the trigger AFTER the engine has completely stopped.
- DO NOT allow children to operate pressure washer
- Never repair high pressure hose. Replace it.
- Never repair leaking connections with sealant of any kind. Replace o-rings and seals.
- Never connect high pressure hose to the extension wand.
- NEVER try to disconnect any water connections without first turning the unit OFF, turning the inlet water OFF and relieving all trapped pressure!
- Always point spray gun in safe direction, squeeze spray gun trigger to release high pressure every time you STOP engine
- Never aim spray gun at people, animals, OR electrical devices.
- Do not secure spray gun in open position
- Do not leave machine unattended.
- Never use a spray gun which does not have a trigger lock OR trigger guard in place and in working order.
- Always assure spray gun, nozzles and accessories are correctly attached.
- Do NOT spray electrical devices with water.
- For outdoor use only.
- Empty the fuel tank and restrain the pressure washer prior to transporting in a vehicle.

# Frequently Asked Questions

## The unit will not START.

Check gasoline supply. Check spark plug. Check engine oil. See engine Manual

## AM I not getting enough pressure?

Water supply must provide a minimum of 5 gallons per minute at 40 p.s.i. Check all hoses for kinks or leaks. The spray nozzle could be blocked or partially obstructed; see page 10. Check the filter at the pump inlet for debris. Always clean the filter or replace. This filter protects the pump.

Operating the unit with the water supply turned off will result in equipment damage. Never allow the unit to run more than one (1) minute without pulling the trigger for water to flow through the pump and eject heated water from the pump

## How can I safely fill the fuel tank?

Only add gasoline to a cool engine. If the unit has been in operation, it should be allowed to sufficiently cool and assure the unit is outdoors with adequate ventilation.

## What should I do if spray penetrates my skin?

Do not treat it as a simple cut. Amputation, blindness or other serious injury could result. Consult a physician immediately. Be sure to inform the physician if soap or a chemical solution was used. Take the label on the chemical solution to the physician if possible to aid in proper diagnosis.

## What soaps or chemicals can I use?

Only products designed for pressure washer use.

**Do not use caustic liquids!**

### **DANGER**

Fuel tank should never be filled indoors. Avoid spilling fuel on hot engine and allow engine to cool completely before fueling. Never fill fuel tank when engine is running or when hot. Do not light a cigarette or smoke when filling the fuel tank. Gasoline vapors are highly explosive.

### **CAUTION**

Assure the pressure washer has a continuous flow of water at all times. The garden hose must be a minimum diameter of 5/8" and a maximum length of 50 feet.

### **WARNING**

The trigger gun traps high water pressure, even when engine is stopped. Relieve trapped water pressure in the pump, hose and trigger gun by squeezing the trigger **AFTER** the engine has completely stopped.

## BEFORE EACH USE

Check the engine oil level and the gasoline supply. Check all hose connections before attempting to start the engine. Do not run the engine on low oil.

## STORAGE

1. Allow engine and pump parts to cool. Clean and wipe down entire unit.
2. Disconnect hose and wand and hang with open end down to allow liquid to drain.
3. Before storing the use of a pressure washer pump conditioner - winterizer is recommended.
4. Do not allow pump to freeze with water inside the pump.

### **DANGER**

Carbon Monoxide (CO) gas is odorless, colorless and is lethal. It is emitted by all internal combustion engines. **NEVER** operate this unit inside a building, garage or near windows and doors.

- **NEVER** repair high pressure hose. Replace it.
- Replacement hose and trigger gun rating **MUST** exceed maximum pressure rating of unit.

### **WARNING**

Relieve trapped pressure from the system by squeezing the trigger prior to performing any adjustments or maintenance to the unit.

### **CAUTION**

Engine and pressure washer parts may be hot even if the unit is not running.

## **DANGER**

Stored batteries give off explosive hydrogen gas while recharging. An explosive mixture will remain around the battery for a period of time after it has completed recharging. Any spark can ignite the hydrogen and cause an explosion. Such an explosion can shatter the battery and cause blindness or other serious injury.

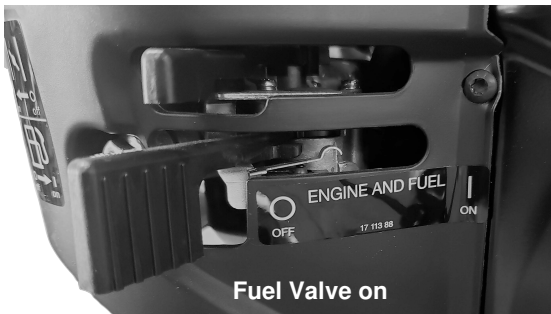
## **DANGER**

Avoid smoking, open flames, sparks or any other source of heat around a battery. Wear protective goggles, rubber apron and rubber gloves when working around a battery. Battery electrolyte fluids are an extremely corrosive sulfuric acid solution that can cause severe burns. If a spill occurs, immediately flush with clear water.

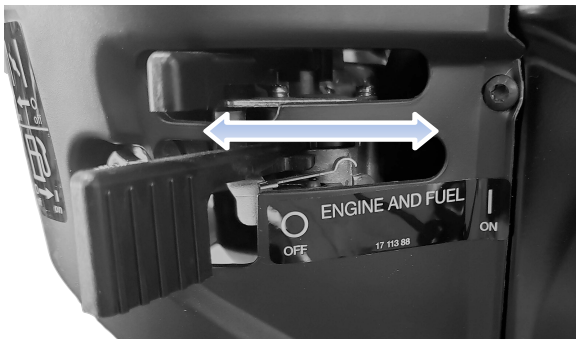
## **DANGER**

**Never** short the battery terminals!  
Electrical short, shock, burns or explosion will occur!

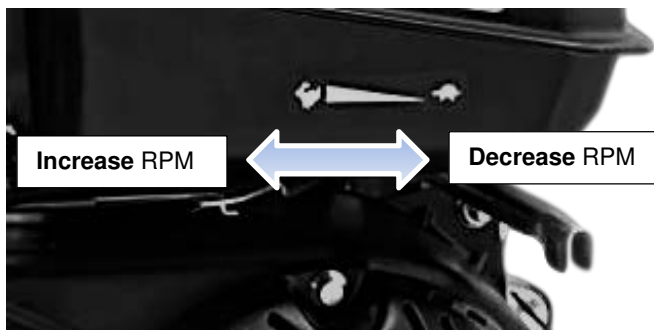
**Figure 3**



**Figure 4**



**Figure 5**



### **Starting the unit with manual start**

- Slide the fuel valve to the “on” position.(figure 3)
- Slide the choke to the “closed” or “start” position. (figure 4)
- Assure the throttle is pushed to the left. (figure 5)
- Pull starter grip slowly until resistance is felt.
- Pull cord briskly
- Return starter cord gently into the recoil housing.
- Move choke to the “open” or run position.

### **Stopping the engine**

- Rotate key or **ignition** switch counterclockwise to the **off** position.
- Rotate the fuel valve to the closed position for storage, maintenance or transportation.
- Disconnect battery for storage or maintenance.



## Nozzle Maintenance:

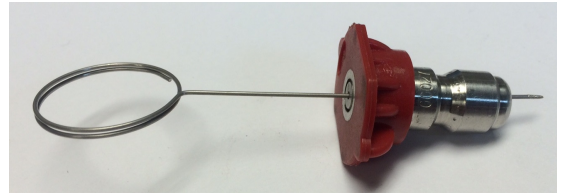
If the spray pattern of the washer becomes distorted or uneven, it may require you to remove debris within the nozzle.

Before performing any maintenance, stopping or storing the machine the residual pressure **MUST** be released from the trigger gun.

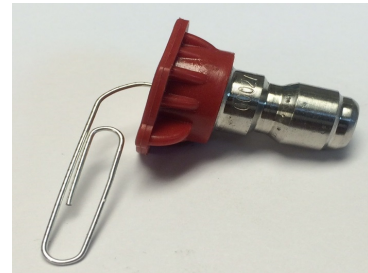


**The trigger gun traps high pressure even when the engine is stopped. Failure to relieve residual pressure prior to performing any maintenance WILL result in injury. ALWAYS relieve the pressure when the engine is stopped.**

Nozzle cleaning tool



OR



### **Relieving residual pressure from the system:**

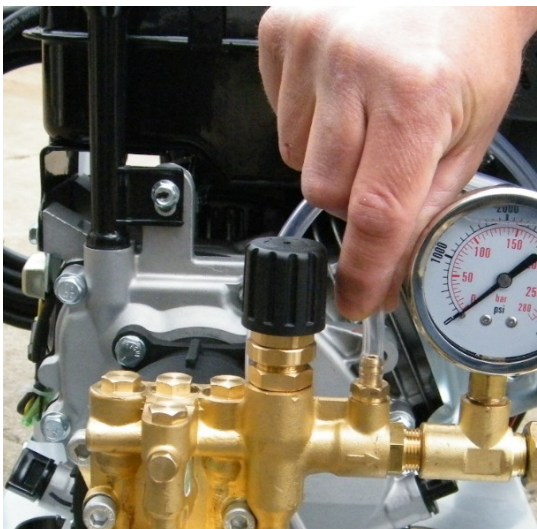
- Turn **OFF** pressure washer
- Turn **OFF** garden hose supplying pressure washer.
- Point trigger gun in a safe direction away from people, pets or electrical devices.
- Squeeze trigger gun handle until water flow stops.

### **Nozzle tip cleaning:**

1. **Relieve residual pressure per the instructions.**
2. Remove the nozzle by reversing the procedure in Figure 1.
3. Using a nozzle cleaning tool or paperclip, remove the obstruction as shown below.
4. The obstruction should be removed from the tip of the tool.
5. It is important that the garden hose screen be used and kept clean at all times to prevent damage to the pump and prevent the nozzle from becoming clogged.

Table 1

Nozzle	Application
0° Red	<ul style="list-style-type: none"> <li>Spot cleaning of high, hard-to-reach areas</li> <li>Removing heavy mud from heavy construction, farm, or lawn equipment</li> <li>Cleaning overhead areas</li> <li>Removing rust from steel and oxidation from aluminum or small overhead surfaces.</li> </ul>
15° Yellow	<ul style="list-style-type: none"> <li>Removing heavy mildew stains</li> <li>Removing marine growth or algae from boats and similar equipment</li> <li>Removing rust from steel</li> <li>Removing grease or dirt from equipment</li> <li>Removing paint from wood, masonry or metal</li> </ul>
25° Green	<ul style="list-style-type: none"> <li>For general purpose or large surfaces</li> <li>General cleaning of dirt, mud, and grime</li> <li>Cleaning gutters, and downspouts</li> <li>Removing light mildew stains</li> <li>Rinsing surfaces in preparation for painting</li> </ul>
40° White	<ul style="list-style-type: none"> <li>For wide-angle rinsing</li> <li>Light cleaning and washing</li> <li>Washing and rinsing of painted surfaces and boats</li> <li>Cleaning windows, patios, and driveways</li> </ul>
Soap nozzle	<ul style="list-style-type: none"> <li>For all detergent applications and for gentle rinsing</li> </ul>



## ⚠ WARNING

**NEVER change nozzles without turning off the pressure washer, relieving all system pressure and locking the lock out on the trigger handle.**

### Using detergent

- Use only detergents designed for pressure washers; household detergents, acids, bleaches, caustic solutions, solvents or flammable liquids will damage the pump and void the warranty.
- Connect the soap injection tube to the soap injector on the pump. See photo below.
- Place the injector hose with filter directly into the soap bottle. This machine will automatically mix the soap solution at a 20:1 ratio.
- Spray the detergent on a dry surface using long overlapping strokes. Do not allow soap to dry on the surface.
- Follow the instructions provided with the cleaning solution.
- Before storage, place injector filter in a clean bucket of water and flush soap from the pump for 1 to 2 minutes.

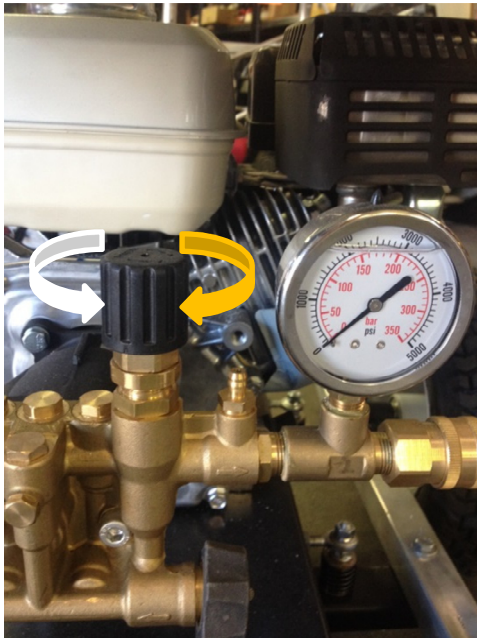
### Rinsing

- Select the proper nozzle per table 1.
- Start at the top of the surface and work your way down the surface using long overlapping strokes.
- To adjust the pressure of the unit, see figure 7.

## ⚠ DANGER

**The trigger gun traps high water pressure, even when engine is stopped. Relieve trapped water pressure in the pump, hose and trigger gun by squeezing the trigger AFTER the engine has completely stopped.**

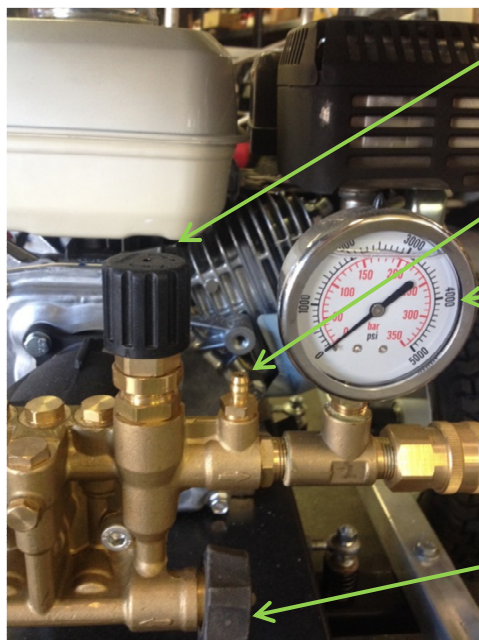
**Notice:** All pressure and flow ratings are per PWMA PW101-1998



To increase pressure: rotate knob **clockwise**.

To decrease pressure: rotate knob **counterclockwise**.

Your pressure washer comes preset with the pressure at its maximum. If you require less pressure, you can adjust the pressure down by adjusting the pressure as shown above.



Pressure Adjustment

Soap injector

Pressure Gage

3/8 Quick Connect

Garden Hose inlet with filter

**Notice:** All pressure and flow ratings are per PWMA PW101-1998

## TROUBLESHOOTING

Problem	Cause	Solution
Engine is running but no water is flowing.	<ol style="list-style-type: none"> <li>1. Water is turned off.</li> <li>2. Hose is kinked</li> <li>3. Inlet filter is stopped up.</li> <li>4. Nozzle is plugged.</li> <li>5. Pump seals are damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn supply water "on".</li> <li>2. Unwind hose and remove kinks.</li> <li>3. Remove garden hose from pump; clean the stainless steel mesh screen.</li> <li>4. Unclog nozzle per instructions.</li> <li>5. Replace pump, Contact <b>CUSTOMER SERVICE 1-888-207-8658</b></li> </ol>
Engine runs good until loads are connected, then bogs down.	<ol style="list-style-type: none"> <li>1. High pressure nozzle is clogged.</li> <li>2. Defective pump.</li> <li>3. Engine speed is too slow.</li> </ol>	<ol style="list-style-type: none"> <li>1. Unclog nozzle per instructions.</li> <li>2. Contact <b>CUSTOMER SERVICE 1-888-207-8658</b></li> <li>3. Increase engine speed per engine manual.</li> </ol>
Engine will not start or engine starts but runs rough.	<ol style="list-style-type: none"> <li>1. On/Off Switch is turned 'OFF'.</li> <li>2. Dirty air cleaner.</li> <li>3. Out of fuel.</li> <li>4. Stale fuel.</li> <li>5. Not enough speed or force is used for recoil start.</li> <li>6. Water in fuel.</li> <li>7. Speed control is not set to "Run".</li> <li>8. Low Oil Level.</li> <li>9. Engine has lost compression.</li> <li>10. Clogged carburetor</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn On/Off switch to "on"</li> <li>2. Clean air filter</li> <li>3. Fill fuel tank</li> <li>4. Drain fuel tank into an approved container and refill with fresh fuel.</li> <li>5. Read and follow directions</li> <li>6. Drain fuel tank into an approved container and refill with fresh fuel.</li> <li>7. Move speed control to the "run" position</li> <li>8. Add oil to the proper level</li> <li>9. Contact <b>CUSTOMER SERVICE 1-888-207-8658</b></li> <li>10. Clean carburetor</li> </ol>
Engine shuts down during Operation.	<ol style="list-style-type: none"> <li>1. Out of fuel.</li> <li>2. Fault in engine.</li> <li>3. Engine oil level is low.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill fuel tank.</li> <li>2. Contact <b>CUSTOMER SERVICE 1-888-207-8658</b></li> <li>3. Add oil to proper level.</li> </ol>
Pump leaks water	<ol style="list-style-type: none"> <li>1. Thermal Release Valve leaks water.</li> <li>2. Pump seals or valves are worn.</li> </ol>	<ol style="list-style-type: none"> <li>1. The water temperature inside the pump has exceeded the set limit; squeeze the trigger to allow cool water to flow thru the pump. Do not allow pressure washer to idle for extended periods.</li> <li>2. Replace pump, Contact <b>CUSTOMER SERVICE 1-888-207-8658</b></li> </ol>

## MAINTENANCE SCHEDULE

		DAILY	MONTHLY	6 MONTHS	YEARLY
	Check Oil Level	x			
	Check For Oil Leaks	x	x		
	Replace Air Filter			x	
	Change Oil				x



**MODEL:VK3000P**  
**PRESSURE WASHER**

**FEATURES**

Kohler CH270  
Gasoline Engine  
Suction Side Soap Pickup  
Rugged Aluminum Construction  
Low Oil Shutdown  
Quick Connect for Nozzles

**SPECIFICATIONS**

PSI – 3000  
GPM – 2.5  
Engine HP – 7.0Hp  
CC's – 208cc  
RPM – 3850 +/- 150  
Oil Capacity – 20oz ( 0.6 US qt )  
Oil Weight – 10w-30  
Start Type – Manual Start  
Fuel Capacity – 1 Gallon  
Fuel Type – 86+ Octane Gasoline  
Shutdown – Toggle Switch/ Low Oil  
Shutdown  
Size – L-36", W-21", H-25"  
Net Weight – 79 Lbs.

**FOR ENGINE SERVICE MANUAL VISIT**  
**[WWW.KOHLERPOWER.COM](http://WWW.KOHLERPOWER.COM)**

**VOLT EQUIPMENT**

128 Milport Circle Suite 101  
Greenville SC 29607  
Customer Service: 1-888-207-VOLT  
[info@volt-equipment.com](mailto:info@volt-equipment.com)



[illegible]

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Greenville SC 29607  
Customer Service: 1-888-207-VOLT  
info@volt-equipment.com

[illegible]

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