

# POWER SHOT

**HIGH PRESSURE CLEANER**

by PRO-JET INDUSTRIAL LLC



**PS3000HD**



**PS4200HD**

POWERED BY  
**HONDA**™

***Operating Manual***



## Introduction

**Thankyou for purchasing this POWERSHOT High Pressure Cleaner. For nearly 50 years Cleaning Professionals have relied on the superior quality of POWERSHOT Cleaning Systems for their high pressure cleaning needs. Whether you purchased this machine to produce income or simply wanted the best pressure cleaner on the market today, we truly appreciate your business.**

**Please take time to carefully read this manual and become familiar with your High Pressure Cleaner. It is important to know the applications, limitations and hazards associated with using pressurised cleaning equipment.**

**POWERSHOT Pressure Cleaners are designed to provide years of service for professional use. Proper use, care and maintenance of this machine will provide a significant return on your investment.**

**Prior to shipping, this machine was tested to ensure it met the performance and quality standard that POWERSHOT has long built it's reputation.**



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## 1.0 Safety Do's and Don'ts

This machine produces a high pressure spray, follow these instructions to avoid the risk of injury.

### **DANGER**

#### 1.1 Danger

- Wear proper face protection when operating a pressure washer.
- Never aim spray gun at yourself, another person, animals or plants
- Keep hands and feet clear of the cleaning nozzle at all times.
- Operate in well ventilated areas ONLY!
- Use ONLY those parts and accessories recommended for these machines.
- Never operate machine without Belt Guard securely in place.



#### 1.2 Warning

- Read all instructions and familiarize yourself with the unit before operating.
- Read engine manual instructions completely.
- Always engage the trigger safety lock when the gunvalve is not in use.
- Relieve the pressure in the system before uncoupling hoses.
- Never start the machine until the quick couplers are checked to make sure the sleeves are locked.
- Do not tamper with unloader valve adjustment or alter engine speed.
- Do not fill the fuel tank when the engine is running or still hot.
- Do not use on unsupported elevated surfaces (i.e. ladders).
- Do not try to repair a leak in the hose or connection while the system is under pressure.
- Do not substitute any component part on this machine.
- Use ONLY PowerShot replacement parts as originally installed.
- The use of incorrect parts could cause serious personal injury.
- Always keep hands and fingers clear of cleaning nozzles.
- Always relieve the pressure in the system before uncoupling the quick couplers.

### **CAUTION**

#### 1.3 Caution

- Use ONLY the cleaning nozzle size designed for your model.
- Do not start the machine until water is turned on at the faucet and water is flowing from the end of the extension.

### **NOTICE**

#### 1.4 Notice

- Close fuel valve when transporting or storing unit.
- Let the machine run for several minutes before starting to pressure-wash.
- Check oil level in engine each time gas tank is filled.
- Keep air filter clean and engine in tune.
- Keep incoming water filter clean.
- Incoming water supply must deliver gallons per minute greater than machine capacity. If questionable, check supply at machine. If supply is insufficient, do not operate from this outlet. For residential use, the outlet closest to the meter tap will usually deliver the highest gallons per minute output.
- DO NOT connect to shallow wells used for lawn sprinkling. Connect only to clean city water supply or deep domestic well.

## 2.0 Operating Instructions

### 2.1 Machine Preparation

1. Check oil level in the pump and fill with proper grade of oil (Fig. 2.1-1) (See Pump Maintenance).
2. Check engine oil level and fill with proper grade oil if necessary (Fig. 2.1-2).
3. Check fuel supply (Fig. 2.1-3). Fill if necessary (see engine owner's manual.)
4. Check the hose, gun, and accessories for damage or wear. Repair or replace if necessary.
5. Check the female quick-couplers for o-ring seals. Replace if necessary.



FIGURE 2.1 - CHECK MACHINE

### 2.2 Hose Connections

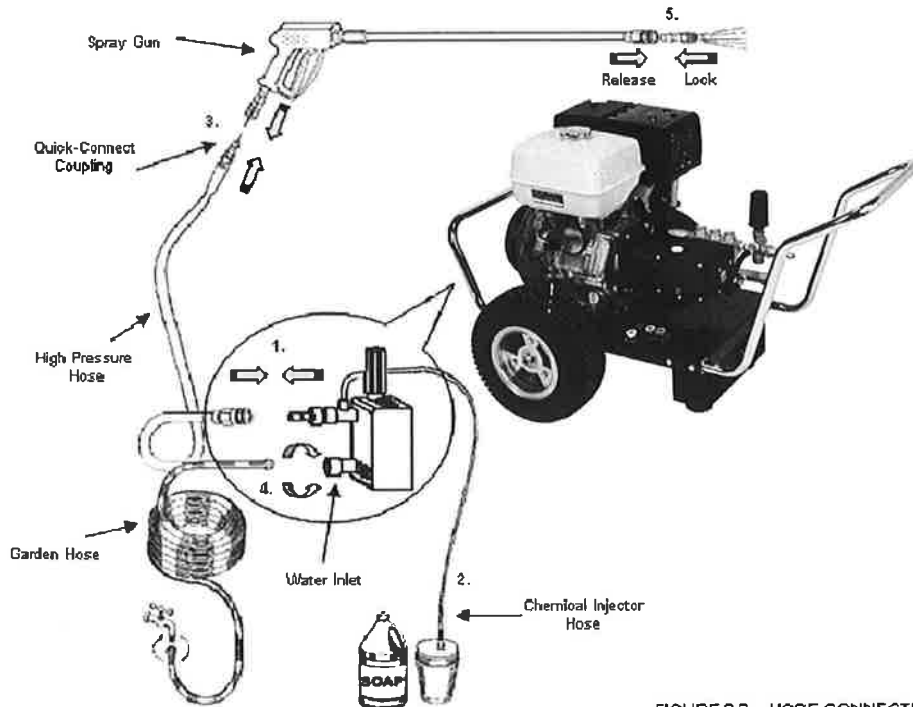


FIGURE 2.2 - HOSE CONNECTIONS

## 2.0 Operating Instructions

### 2.2 Hose Connections (cont.)

1. Connect discharge hose to machine outlet. (Fig. 2.2-1)
2. If optional low pressure downstream, in-line chemical injector is to be used (i.e. a PowerShot SC242 or 252 Series chemical injector) connect the injector at this time (Fig. 2.2-2). For instructions on connections and use, see in-line chemical injector operating instructions
3. Connect gunvalve to discharge hose with quick coupler (Fig. 2.2-3). **DO NOT INSTALL CLEANING NOZZLE AT THIS TIME.** Quick coupler sleeves must be pushed into locked position to prevent accidental uncoupling (Fig. 2.2-5).
4. Check inlet water filter for blockage then connect water supply hose to machine. Use a 3/4" I.D. or larger hose with standard 3/4" garden hose fittings. (Fig. 2.2-4)

Incoming water supply must deliver gallons per minute greater than machine capacity.

If questionable, check supply at machine. If supply is insufficient, do not operate from this outlet. For residential use, the outlet closest to the meter tap will usually deliver the highest gallons per minute output. **DO NOT** connect to shallow wells used for lawn sprinkling. Connect only to clean city water supply or deep domestic well.

#### **NOTICE**

### 2.3 Before Starting Machine

#### **DANGER**

**DO NOT OPERATE GASOLINE AND DIESEL ENGINES IN ENCLOSED AREAS! OPERATE IN WELL VENTILATED AREAS ONLY!**



FIGURE 2.3 - GUNVALVE, EXTENSION, & NOZZLE

1. Locate machine on a level plane.
2. Turn on water supply. There should be no nozzle in the extension at this point.
3. Pull gunvalve trigger, allowing air in system to escape.
4. When water flows in a full steady stream, release gunvalve trigger. (Fig. 2.3)

### 2.4 Starting Gasoline / Diesel Engine Machines

1. Check position of fuel valve, and if closed, open valve. For more detailed information on starting the machine's engine, see engine instruction manual.
2. Choke: Close choke on carburetor by moving lever in proper direction. If engine is warm or air temperature is high, close choke valve half-way, or keep it open fully.
3. Machines with recoil start: Turn engine ON/OFF switch to the "ON" position. Pull the recoil starter grip lightly until resistance is felt, then pull briskly.

Machines without APR (Automatic Pressure Relief): If the engine fails to start after 1 or 2 pulls of the recoil, pressure will build-up in the system. To relieve the pressure squeeze the gunvalve trigger and allow water to flow freely. There should be **NO** nozzle or obstruction at the end of the extension.

#### **NOTICE**

4. After engine starts, open choke gradually.
5. Warm up engine for 3 minutes without load.

## 2.0 Operating Instructions

### 2.5 Pressure Washing



#### **WEAR PROPER FACE PROTECTION WHEN OPERATING A PRESSURE WASHER!**

1. Select the cleaning nozzle or accessory best suited for the cleaning job.  
NOTE: Some accessory nozzles function as both a high pressure cleaning nozzle and low pressure chemical injector nozzle (i.e. vari-tip nozzles). See specific accessory nozzle operating instructions for more information.
2. PUT GUNVALVE TRIGGER IN LOCKED POSITION (Fig. 2.4).
3. Connect cleaning nozzle, chemical injector control nozzle, or accessory nozzle or attachment to gunvalve extension quick coupler (Fig. 2.2).
4. Push quick coupler sleeve into LOCKED position to prevent accidental loss of nozzle. Then unlock gunvalve trigger.
5. Check the system for water leaks, fuel leaks, oil leaks, hose kinks, etc. Correct any problems before proceeding.
6. Machine is now ready for operation.

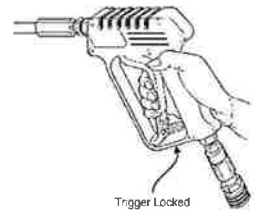


FIG. 2.4 - GUNVALVE SAFETY TRIGGER

**DANGER**

**HIGH PRESSURE SPRAY CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY! NEVER POINT THE SPRAY GUN AT YOURSELF, OTHER PEOPLE, OR ANIMALS. SHOULD SPRAY PENETRATE THE SKIN, SEEK MEDICAL ATTENTION IMMEDIATELY!**

### 2.6 Stopping the Machine

1. If you have been using a chemical injector, be sure to flush out the chemical by running clean water through the system.
2. Allow machine to run for 1 minute without load to cool before stopping.
3. Operate "STOP" lever or switch to shut off machine (See engine instruction manual).
4. Pull recoil starter until compression resistance is felt. Store the machine in this position to help prevent valve warpage or sticking.
5. Close Fuel Valve. For Electric Models Turn "ON/OFF" switch on machine to the "OFF" position.



#### **FAILURE TO CLOSE THE FUEL VALVE ON THE ENGINE CAN CAUSE FUEL LEAKAGE WHEN THE MACHINE IS BEING TRANSPORTED!**

6. Turn off water supply.
7. Remove the cleaning nozzle or accessory from the extension quick coupler.
8. Pull gunvalve trigger to release all pressure in the system, then LOCK THE GUNVALVE TRIGGER (Fig. 2.4).
9. Hoses may now be disconnected from the machine.

**NOTICE**

Failure to release pressure before disconnecting the hose quick coupler will result in the quick coupler o-ring seal blowing out. This o-ring must be replaced before operating machine.

## 3.0 Cleaning Nozzles

There are up to five different quick connect nozzle spray tips, four high pressure and one low pressure "Soap" nozzle. The operator can select a high pressure nozzle spray pattern which best suits the cleaning application.

### THE BLASTER: (RED)

Provides a concentrated spot of high pressure water allowing you to be further from the surface being cleaned and to blast off stubborn material. **USE CAUTION** with this nozzle as the force available will actually penetrate soft materials or surfaces. Use for reaching high areas such as under eaves. Cleaning tar, chewing gum etc. from sidewalks. Breaking up large areas of loose paint to allow stripping nozzle to get under surface. Removing excess mortar from brick construction. Removing rust flakes from steel.



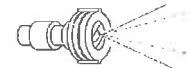
### THE STRIPPER: (YELLOW)

Provides a narrow fan of concentrated water pressure for removing paint, mildew, etc. By testing several angles between the spray and the surface being worked, the best angle may quickly be identified. Use to remove loose paint from wood, masonry, metal, etc. Remove heavy oxidation, mildew, and marine growth from boats, etc. Clean heavy equipment.



### THE CLEANER (GREEN)

Provides a wider fan for pressure cleaning and rinsing. Use for removing mildew, light to medium oxidation, and dirt from aluminum siding. Rinse stripped areas. General light cleaning in preparation for painting.



### THE RINSER (WHITE)

Provides a wide fan for cleaning and rinsing. Use for general wash-down, light cleaning, rinsing off chemicals used in building restoration, and sweeping driveways and parking areas.



### THE SOAPER (BLACK)

A low pressure nozzle used to apply cleaning solutions.

Note: Cleaning solutions cannot be applied with high pressure spray tips (Red, Yellow, Green or White).





## 4.0 Cleaning and Applying Detergent



**IMPORTANT: Use detergents designed specifically for pressure washers. Household detergents could damage pump.**

To apply detergent follow these steps:

1. Prepare pressure washer detergent solution as required by manufacturer.
2. Place detergent siphon tube/filter into solution.
3. Make sure "SOAPER" nozzle (Black) is installed.
4. Apply cleaning solution to a dry surface, starting at lower portion of areas to be washed and work upward, using long, overlapping strokes. To prevent streaking, DO NOT allow detergent to dry on.

**IMPORTANT:** You must flush the injection system after each use by placing siphon hose into a bucket of clean water, then run pressure washer in low pressure (Black nozzle) for 2 minutes.

## 5.0 Maintenance

### 5.1 Pump Crankcase Lubrication

#### **NOTICE**

Proper pressure washer pump crankcase lubrication will help extend the working life of the machine. Follow these important recommended guidelines:

- Change oil after initial 50 hour run-in period.
- Powershot pump oil is recommended as the first choice.  
Change Powershot pump oil at 250 hour intervals.
- If Powershot pump oil is not available, a high quality SAE30 non-detergent oil may be used. These oils should be changed every 100 hours
- Direct drive machines should have the pump oil changed at least every 50 hours, regardless of the type of oil used. More frequent oil changes will further enhance the pump's working life.
- Pump oil level can be checked with a dip stick or, for pumps with oil level sight gauges, viewing the sight gauge. Oil level is correct if at the center of the circle. If oil level is low, fill to correct level with recommended oil. **DO NOT OVERFILL** crankcase!
- Some pumps may not have either a dipstick or sight gauge. Oil levels in these pumps can only be checked by draining the crankcase and measuring the oil amount. If oil level is incorrect, replace with the proper amount and type as recommended by the pump manufacturer.

### 5.2 Preventative Maintenance

- Give model and serial number when ordering parts or requesting information. See Section 1.5, Machine Warning Tags and Specification Plate, Fig. 1-4.
- Read all instructions and familiarize yourself with the unit before operating.
- Keep incoming water filter clean.
- Use only nozzles of size furnished with machine.
- Drain water from pressure hoses, gun and extension and accessories after use.
- Protect pump from freezing. Failure to remove water from the pump in freezing temperatures will result in damaged pump manifold. A winterizing siphon kit (Part No. WK 590-10) is available for this purpose. Using this kit, a 50-50 mixture of ethylene glycol type anti-freeze and water is siphoned into the pump to replace the plain water.
- Use **ONLY** injector of the size and type designed for your model.
- **DO NOT** tamper with unloader valve adjustment or alter engine speed.
- **DO NOT** connect siphon hose to pump inlet for the purpose of siphoning cleaning chemicals through pump. The machine is designed for direct loop up to water supply.
- **DO NOT** exceed 140° F temperature on incoming water supply.

#### Gasoline and Diesel Engines:

- Keep air filter clean and engine in tune.
- Check oil level in engine each time gas tank is filled. Change oil in the engine at required intervals, and use only recommended grade engine oil.
- **ALWAYS** close fuel valve when transporting or storing unit.
- Before storing unit for long periods of time, drain fuel tank and carburetor of all fuel. As an alternative, use a commercially available gasoline preservative additive when storing machine for shorter periods (up to 6 months).

#### Electric Models:

- Check the condition of the electrical cord. Damaged cords should be replaced.



## 6.0 Troubleshooting

PROBLEM	PROBABLE CAUSE	SOLUTION
No Pressure	Broken Belts (if Applicable)	Replace Belts
	Improper Belt Tension (if Applicable)	Adjust Belt Tension
	Clogged Inlet Water Filter	Clean or Replace Water Inlet Filter
	Clogged Nozzle	Clean Debris from Nozzle
Low Pressure	Worn or Incorrect Nozzle	Replace Nozzle with Correct Size
	Improper Belt Tension (if Applicable)	Adjust Belt Tension
	Improper Engine R.P.M.	Consult Service Center
	Inadequate Water Supply	Check Water Supply and Clean Inlet Filter
Pulsation or Hoses Vibrating	Inadequate Water Supply	Check Water Supply and Inlet Water Filter
	Partially Clogged Nozzle	Clean or Replace Nozzle
	Debris in Pump Valves	Consult Service Center
	Incorrect Nozzle Size	Install Correct Size Nozzle
Water Leaking Under Pump	Worn Plunger Seals	Consult Service Center
	Worn or Damaged Plungers	Consult Service Center
	Pump Running Dry	Check Water Supply
Water in Pump Oil	Worn Pump Seals	Consult Service Center
	Worn or Damaged Plungers	Consult Service Center
	Condensation in Pump Crankcase	Change Oil
Pump Oil Leak	Oil Level Too High	Drain Oil and Fill to Proper level
	Wrong Oil Type	Drain Oil and Fill with Correct Oil SAE30 Non-Detergent
	Operating on Unlevel Surface	Move To Level Surface
	Tire Pressure Too Low or Flat	Inflate Tire or Repair Leak
Recoil Starter Hard to Pull	Pressure Built up in System	Pull Trigger while Starting Unit
Engine Dies When Trigger is Released	Unloader Valve is Broken or Misadjusted	Consult Service Center



## 7.0 High Pressure Cleaner Warranty

Whilst every effort is made to ensure your complete satisfaction with this tool, occasionally, due to the mass manufacturing techniques, a tool may not live up to our required level of performance and you may need the assistance of our service department.

This High Pressure Cleaner is warranted for a 24 month period for commercial and home use from the date of the original purchase. If found to be defective in materials or workmanship, the tool or the offending faulty component will be replaced free of charge with another of the same item. A small freight charge may apply. Proof of purchase is essential.

We reserve the right to reject any claim where the purchase cannot be verified. This warranty does not include damage or defects to the tool caused by or resulting from abuse, accidents, alterations or commercial or business use. It also does not cover any bonus items or included accessories. Only the High Pressure Cleaner is covered under this warranty.

Please ensure that you store your receipt in a safe place. Conditions apply to the above warranty.

- 1. DURATION:** The manufacturer warrants that it will repair or replace, at no charge for parts or labour, the POWERSHOT High Pressure Cleaner, if proven defective in material or workmanship, during the following time period(s) after date of original retail purchase:

**For 2 Years:**  
The POWERSHOT High Pressure Cleaner  
(excluding accessories)

**2. WHO GIVES THIS WARRANTY (Warrantor):**

EUROQUIP NZ Service Line ++64 3 547 8409	EUROQUIP AUSTRALIA Service Line 1-800 040 947
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**3. WHO RECEIVES THIS WARRANTY (Purchaser):**

The original purchaser of this  
POWERSHOT Pressure Cleaner

**4. WHAT IS COVERED UNDER THIS WARRANTY:**

Defects in material and workmanship which occur within the duration of the warranty period.

**5. WHAT IS NOT COVERED UNDER THIS WARRANTY:**

- A.** Implied warranties, including those of merchantability and FITNESS for a particular purpose are limited in duration to this express warranty. After this period, all risks of loss, from whatever reason, shall be on the purchaser.

- B.** ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE OR MALFUNCTION OF THIS PRODUCT.

- C.** This warranty does not apply to any accessory or consumable items included with the product which are subject to wear from usage; the repair or replacement of these items shall be at the expense of the owner. These items include, but are not limited to: sparkplugs, seals, o-rings, lances, nozzles, thermal dump valves, hoses etc. In addition, this warranty does not extend to any damage caused by the untimely replacement or maintenance of any of the previously listed CONSUMABLE parts.

- D.** Any failure that results from accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with the product.

**FREEZE DAMAGE IS NOT COVERED UNDER WARRANTY.**

- E.** Pre-delivery service, i.e. assembly and adjustment.

- 6. RESPONSIBILITIES OF WARRANTOR UNDER THIS WARRANTY:** Repair or replace, at Warrantor's option, products or components which have failed within duration of the warranty period.

**7. RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:**

- A.** Please call your re-seller or the number listed above for warranty assistance.
- B.** Provide dated proof of purchase and maintenance records.
- C.** All High Pressure Cleaners must be delivered or shipped to the nearest Service Agent or re-seller. Freight costs, if any, must be borne by the purchaser.
- D.** Use reasonable care in the operation and maintenance of the products as described in the owner's manual(s).
- E.** No warranty costs incurred will be considered for, or covered if Euroquip has not been contacted and prior permission for repair / replacement has been granted.

**8. WHEN WARRANTOR WILL PERFORM REPAIR OR REPLACEMENT UNDER THIS WARRANTY:**

Repair or replacement will be scheduled and serviced according to the normal work flow at the servicing location and depending on the availability of replacement parts.

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**Record all information and attach  
sales receipt here for future reference**

**PURCHASE DATE:** \_\_\_\_\_

**SERIAL NUMBER:** \_\_\_\_\_



Congratulations on your new POWERSHOT product. We are proud to have you as our customer and will strive to provide you with the best service and reliability in the industry. This product is backed by our extensive warranty and world-wide service network. To locate your nearest distributor or service agency call ++64 3 5478409, or email us at [info@euroquip.co.nz](mailto:info@euroquip.co.nz).