

PW3000

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



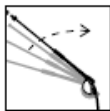
Hot Surfaces



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. **1-800-845-4141**
- 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 maybe 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 PPW-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.

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 (SEE ENGINE MANUAL)

- 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 hose 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, press red button and Squeeze spray gun trigger TO release high pressure every time you STOP engine
- Never aim spray gun at people, animals, OR plants.
- 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 from moving prior to transporting in a vehicle.

FAQ

The unit will not START.

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

How can I apply soap or chemicals?

The wand must be in the low pressure setting. Chemical hose must be attached to the pump and fully submerged in the chemical supply. *See Page 6

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.

What soaps or chemicals can I use?

Only products designed for pressure washer use.

Do not use caustic liquids!

CAUTION

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

Operating the unit with the water supply turned off may 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.

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.

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.

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.

CAUTION

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

WARNING

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

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.

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.

⚠ 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 4

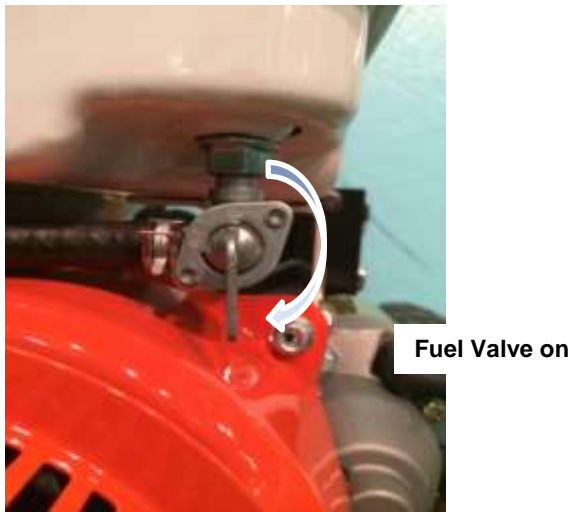


Figure 5

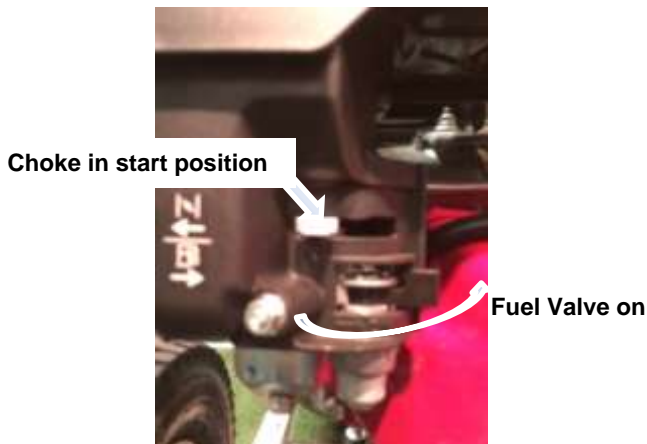
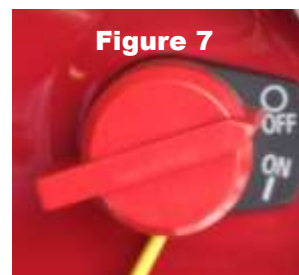


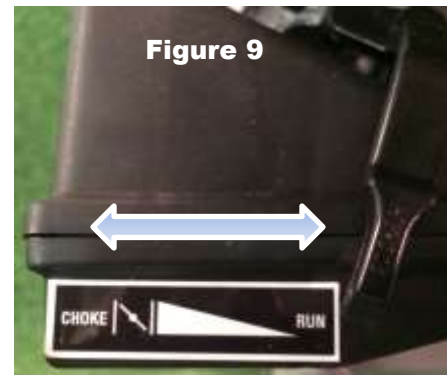
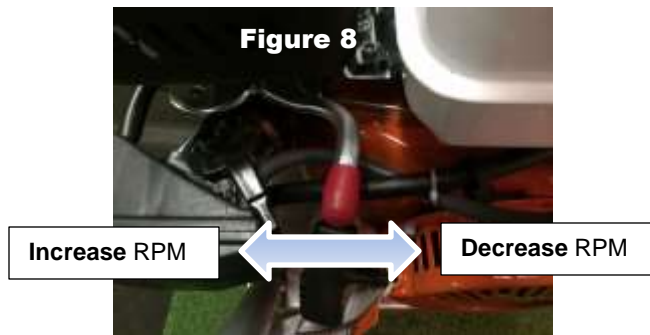
Figure 6



Figure 7



Manual start only



Starting the unit with electric start

- Unit is shipped with the battery cables disconnected.
 - Attach positive (red) lead first.
 - Attach negative (black) lead last.
- Rotate the fuel valve to the “on” position.(figure 4 or 5)
- Move the choke to the “closed” or “start” position. (Figure 5 or 9 depending on the type of engine. Consult your engine manual)
- Assure the throttle is pushed to the left. (figure 8)
- Turn key to the “start” position. See figure 6
- Once engine starts, return key to the “run” position.
- 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.

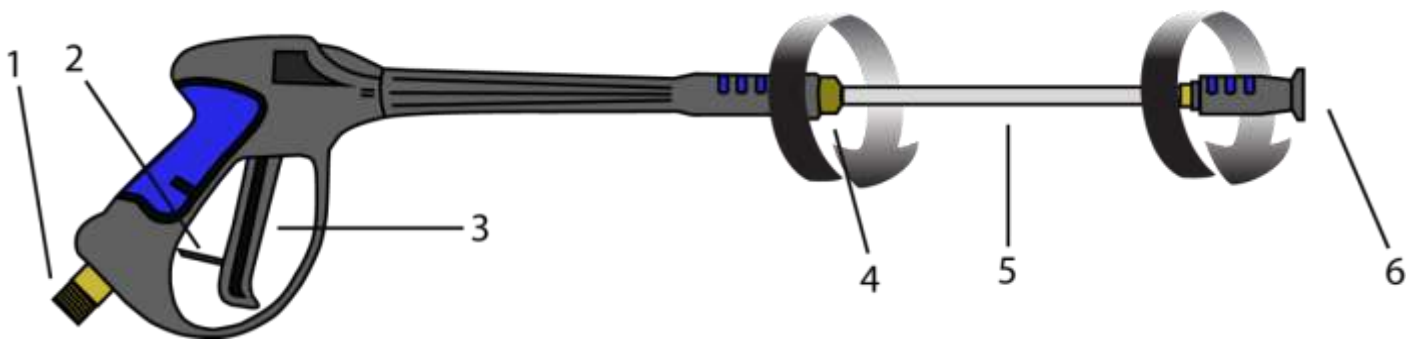
Starting the unit with manual start

- Rotate the fuel valve to the “on” position.(figure 4 or 5)
- Move the choke to the “closed” or “start” position. (figure 5 or 9 depending on the type of engine. Consult your engine manual)
- Assure the throttle is pushed to the left. (figure 8)
- Move the choke to the “closed” or start position.
- Turn key to the “on” position. See figure 5 or rotate ignition switch to the right as shown in figure 7.
- 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.

SOAP OPERATIONS

Prior to starting your pressure washer attach the soap/chemical injection hose to the pressure washer pump as shown in Figure xx. The pump will automatically mix the solution at the 20:1 ratio. No mixing is necessary. **Do NOT use chlorine bleach or other caustic solutions.** It will void your warranty. To activate your Pressure Washer for cleaning purposes you must have your unit in the Low position. Low position is obtained by first locating the discharge cap (see figure #1). On the discharge cap there is an arrow that has two settings on it, low and high. Set your discharge cap to the low position and you are ready for soap application. Use only pressure washer safe detergents and soaps. Follow all manufacturer instructions.

* Your soap application will only work in the low position*



1. High Pressure hose Connection
2. Trigger Lock
3. Trigger
4. M22 connection for extension wand
5. Extension wand
6. Nozzle



Nozzle cleaning tool

Cleaning the high pressure nozzle:

- Turn the pressure washer OFF.
- Turn the water source OFF.
- Relieve all pressure from the high pressure gun and wand in a safe manner.
- Lock trigger as shown above in item 2
- Using the provided nozzle cleaning tool or a small paper clip, insert the tip into the nozzle orifice. It may be necessary to disconnect the high pressure gun from the extension wand and after cleaning the tip, wash the nozzle out with a garden hose.



TROUBLESHOOTING

Problem	Cause	Solution
Engine is running but no water is flowing.	<ol style="list-style-type: none"> 1. Water is turned off. 2. Hose is kinked 3. Inlet filter is stopped up. 4. Nozzle is plugged. 5. Pump seals are damaged 	<ol style="list-style-type: none"> 1. Turn supply water "on". 2. Unwind hose and remove kinks. 3. Remove garden hose from pump; clean the stainless steel mesh screen. 4. Unclog nozzle per instructions. 5. Replace pump, Contact CUSTOMER SERVICE 1-800-845-4141
Engine runs good until loads are connected, then bogs down.	<ol style="list-style-type: none"> 1. High pressure nozzle is clogged. 2. Defective pump. 3. Engine speed is too slow. 	<ol style="list-style-type: none"> 1. Unclog nozzle per instructions. 2. Contact CUSTOMER SERVICE 1-800-845-4141 3. Increase engine speed per engine manual.
Engine will not start or engine starts but runs rough.	<ol style="list-style-type: none"> 1. On/Off Switch is turned 'OFF'. 2. Dirty air cleaner. 3. Out of fuel. 4. Stale fuel. 5. Not enough speed or force is used for recoil start. 6. Water in fuel. 7. Speed control is not set to "Run". 8. Low Oil Level. 9. Engine has lost compression. 10. Clogged carburetor 	<ol style="list-style-type: none"> 1. Turn On/Off switch to "on" 2. Clean air filter 3. Fill fuel tank 4. Drain fuel tank into an approved container and refill with fresh fuel. 5. Read and follow directions 6. Drain fuel tank into an approved container and refill with fresh fuel. 7. Move speed control to the "run" position 8. Add oil to the proper level 9. Contact CUSTOMER SERVICE 1-800-845-4141 10. Clean carburetor
Engine shuts down during Operation.	<ol style="list-style-type: none"> 1. Out of fuel. 2. Fault in engine. 3. Engine oil level is low. 	<ol style="list-style-type: none"> 1. Fill fuel tank. 2. Contact CUSTOMER SERVICE 1-800-845-4141 3. Add oil to proper level.
Pump leaks water	<ol style="list-style-type: none"> 1. Thermal Release Valve leaks water. 2. Pump seals or valves are worn. 	<ol style="list-style-type: none"> 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. 2. Replace pump, Contact CUSTOMER SERVICE 1-800-845-4141

MAINTENANCE SCHEDULE

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

WARRANTY

American Fab equipment is warranted to be free from defects in material and workmanship for a period of one year after date of purchase. Normal wear and tear items which have exhausted the useful life of a part such as spray wand, nozzles, trigger handle, supply hoses and quick couplers are not covered. The **engine** is warranted for a period of **TWO** years.



SPECIFICATIONS

EQUIPMENT SPECIFICATIONS		PUMP SPECIFICATIONS	
Engine Type	Gasoline	PSI	3000psi
RPM	3500 RPM	Gallons Per Minute	2.5 gpm
Fuel	86 octane or higher, 10% ethanol maximum	Soap Pickup	Yes 20:1 dilution
Fuel Capacity	<i>(see engine manual)</i>	Battery Type (electric start only)	12 volt 12AH/20HR sealed lead acid
Starting System	Pull Start and/or electric start		
Dimensions (inches)	L-36" W-21 1/2" H-25"		
Net Weight	76 LBS		
Equipment Warranty	1 year		
Engine Warranty	2 year		

Manufactured by:
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