

Record All Information and attach sales receipt here for future reference:

Operation Manual

Purchase Date:_	
Serial #:	

Do Not return this product to the retailer! Questions? 1-800-888-2468



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IMPORTANT

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before operating.

SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting **YOUR SAFETY** and **PREVENTING EQUIPMENT PROBLEMS**. To help you recognize this information, we use the symbols below. Please read the manual and pay attention to these symbols.

ADANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.	ACAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.	
AWARNING Indicates a potentially hazardous situation which, if not avoided, <u>could</u> result in <u>death or serious injury.</u>	CAUTION Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.	

CONSUMER SAFETY INFORMATION

This product may not be equipped with a spark arresting muffler. If the product is not equipped and will be used around flammable materials, or on land covered with materials such as agricultural crops, forest, brush, grass, or other similar items, then an approved spark arrester must be installed and is legally required in the state of California. It is a violation of California statutes section 130050 and/or sections 4442 and 4443 of the California Public Resources Code, unless the engine is equipped with a spark arrester, as defined in section 4442, and maintained in effective working order. Spark arresters are also required on some U.S. Forest Service land and may also be legally required under other statutes and ordinances.

▲WARNING

Engine exhaust contains chemicals known, in certain quantities, to cause cancer, birth defects or other reproductive harm.

IMPORTANT SAFETY INSTRUCTIONS

AWARNING

Do not operate this unit until you have read and understand this Operators Manual and the Engine Owners Manual for Safety, Operation, and Maintenance Instructions.

READ AND SAVE THESE INSTRUCTIONS

ADANGER RISK OF EXPLOSION OF	
WHAT CAN HAPPEN	HOW TO PREVENT IT
Spilled gasoline and it's vapors can be- come ignited from cigarette sparks, electrical arcing, exhaust gases, and hot engine components such as the muffler.	Shut off engine and allow it to cool before adding fuel to the tank. Use care in filling tank to avoid spilling fuel. Move pressure washer away from fueling area before starting engine.
 Heat will expand fuel in the tank which could result in spillage and possible fire explosion. 	Keep maximum fuel level ½" below top of tank to allow for expansion.
Operating the pressure washer in an ex- plosive environment could result in a fire.	Operate and fuel equipment in well ventilated areas free from obstructions. Equip areas with fire extinguisher suitable for gasoline fires.

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HAZARD



RISK OF EXPLOSION OR FIRE (continued)





WHAT CAN HAPPEN

- Materials placed against or near the pressure washer can interfere with its proper ventilation features causing overheating and possible ignition of the materials.
- Muffler exhaust heat can damage painted surfaces, melt any material sensitive to heat (such as siding, plastic, rubber, or vinyl), and damage live plants.
- Improperly stored fuel could lead to accidental ignition. Fuel improperly secured could get into the hands of children or other unqualified persons.
- Use of acids, toxic or corrosive chemicals, poisons, insecticides, or any kind of flammable solvent with this product could result in serious injury or death.

- HOW TO PREVENT IT
- Never operate pressure washer in an area containing dry brush or weeds.
- Always keep pressure washer a minimum of four feet away from surfaces (such as houses, automobiles, or live plants) that could be damaged from muffler exhaust heat.
- Store fuel in an OSHA approved container, in a secure location away from work area.
- · Do not spray flammable liquids.

HAZARD



RISK TO BREATHING



WHAT CAN HAPPEN

- Breathing exhaust fumes will cause serious injury or death! Engine exhaust contains carbon monoxide, an odorless and deadly gas.
- Some cleaning fluids contain substances which could cause injury to skin, eyes, or lungs.

HOW TO PREVENT IT

- Operate pressure washer in a well ventilated area. Avoid enclosed areas such as garages, basements, etc.
- Never operate unit in a location occupied by humans or animals.
- Use only cleaning fluids specifically recommended for high pressure washers. Follow manufacturers recommendations. Do not use chlorine bleach or any other corrosive compound.

HAZARD

▲ DANGER

RISK TO FLUID INJECTION



WHAT CAN HAPPEN

- Your washer operates at fluid pressures and velocities high enough to penetrate human and animal flesh, which could result in amputation or other serious injury. Leaks caused by loose fittings or worn or damaged hoses can result in injection injuries. DO NOT TREAT FLUID INJECTION AS A SIMPLE CUT! See a physician immediately!
- Injuries can result if system pressure is not reduced before attempting maintenance or disassembly.

HOW TO PREVENT IT

- Never place hands in front of nozzle.
- · Direct spray away from self and others.
- Make sure hose and fittings are tightened and in good condition. Never hold onto the hose or fittings during operation.
- · Do not allow hose to contact muffler.
- Never attach or remove wand or hose fittings while system is pressurized.
- To relieve system pressure, shut off engine, turn off water supply, and pull gun trigger until water stops flowing.
- Use only hoses and accessories rated for pressure higher than your pressure washer's PSI.



HAZARD AWARNING RISK OF CHEMICAL BURN



WHAT CAN HAPP	EN	HOW TO PREVENT IT
Use of acids, toxic or corrosive poisons, insecticides, or any mable solvent with this produsult in serious injury or death.	kind of flam- ct could re-	 Do not use acids, gasoline, kerosene, or any other flammable materials in this product. Use only household detergents, cleaners and degreasers recommended for use in pressure washers. Wear protective clothing to protect eyes and skin from contact with sprayed materials.

HAZARD

A WARNING

RISK OF ELECTRICAL SHOCK



Spray directed at electrical outlets or switches, or objects connected to an electrical circuit, could result in a fatal electrical shock.

WHAT CAN HAPPEN

HOW TO PREVENT IT

Unplug any electrically operated product before attempting to clean it. Direct spray away from electric outlets and switches.

HAZARD

A WARNING RISK OF HOT SURFACES



WHAT CAN HAPPEN

HOW TO PREVENT IT

HAZARD

- Contact with hot surfaces, such as engines exhaust components, could result in serious burn.
- During operation, touch only the control surfaces of the pressure washer. Keep children away from the pressure washer at all times. They may not be able to recognize the hazards of this product.

A DANGER

RISK OF INJURY OR PROPERTY DAMAGE WHEN TRANSPORTING OR STORING



WHAT CAN HAPPEN

· Fuel or oil can leak or spill and could result in fire or breathing hazard, serious injury or death can result. Fuel or oil leaks will damage carpet, paint or other surfaces in vehicles or trailers.

HOW TO PREVENT IT

• If pressure washer is equipped with a fuel shut-off valve, turn the valve to the off position before transporting to avoid fuel leaks. If pressure washer is not equipped with a fuel shut-off valve, drain the fuel from tank before transporting. Only transport fuel in an OSHA approved container, Always place pressure washer on a protective mat when transporting to protect against damage to vehicle from leaks. Remove pressure washer from vehicle immediately upon arrival at your destination.

HAZARD



A DANGER RISK OF UNSAFE OPERATION



RISK OF UNSAFE OPER	RATION		
WHAT CAN HAPPEN	HOW TO PREVENT IT		
Unsafe operation of your pressure washer could lead to serious injury or death to you or others.	Do not use chlorine bleach or any other corrosive compound. Become familiar with the operation and controls of the pressure washer. Keep operating area clear of all persons, pets, and obstacles. Do not operate the product when fatigued or under the influence of alcohol or drugs. Stay alert at all times. Never defeat the safety features of this product. Do not operate machine with missing, broken, or unauthorized parts. Never leave wand unattended while unit is running.		
If proper starting procedure is not followed, engine can kickback causing serious hand and arm injury.	If engine does not start after two pulls, squeeze trigger of gun to relieve pump pressure. Pull starter cord slowly until resistance is felt. Then pull cord rapidly to avoid kickback and prevent hand or arm injury.		
The spray gun/wand is a powerful clean- ing tool that could look like a toy to a child.	Keep children away from the pressure washer at all times.		
Reactive force of spray will cause gun/wand to kickback, and could cause the operator to slip or fall, or misdirect the spray. Improper control of gun/wand can result in injuries to self and others.	 Do not overreach or stand on an unstable support. Do not use pressure washer while standing on a ladder. Grip gun/wand firmly with both hands. Expect the gun to kickback when triggered. 		

HAZARD AWARNING RISK OF INJURY FROM SPRAY		
WHAT CAN HAPPEN	HOW TO PREVENT IT	
High velocity fluid spray can cause objects to break, propelling particles at high speed. Light or unsecured objects can become hazardous projectiles.	Always wear ANSI approved Z87 safety glasses. Wear protective clothing to protect against accidental spraying. Never point wand at, or spray people or animals. Always secure trigger lock when wand is not in service to prevent accidental operation. Never permanently secure trigger in pull back (open) position.	



CARTON CONTENTS



Engine Frame and Wheel Assembly



Chemical Hose

Nozzle

Cleaning

Tool

Nozzle

Holder

Bagged Parts

Connect Nozzles

Formed Rubber Covers

Engine Manual



High Pressure Hose





Handle

ASSEMBLY INSTRUCTIONS

1. Place the nozzle holder onto the panel (located on the handle assembly) and push each nozzle holder into place.







- 2. Remove five colored quick connect nozzles from plastic bag and insert them into correct grommet on the nozzle holder. **NOTE:** Nozzles are color coded to match colored nozzles on panel.
- 3. Place handle assembly onto frame, depress the snap buttons, and slide the handle assembly onto the frame until snap buttons snap into place.







- 4. Attach high pressure hose to gun. Tighten securely.
- 5. Connect wand to gun. Tighten securely.



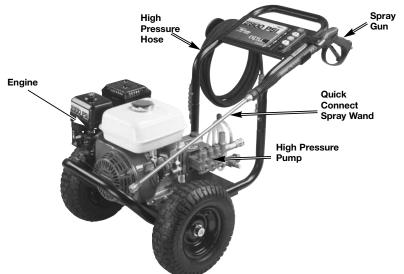
6. Slide the formed rubber covers onto the handle's on-board hose and wand storage.

NOTE: The high pressure pump was filled with oil at the factory. There is no need to add oil at this time, see the Maintenance section of this manual for Maintenance information.



OPERATING INSTRUCTIONS

Compare the illustrations with your unit to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.



BASIC ELEMENTS OF A PRESSURE WASHER

High Pressure Pump: Increases the pressure of the water supply.

Engine: Drives the high pressure pump.

High Pressure Hose: Carries the pressurized water from the pump to the gun and spray wand.

Spray Gun: Connects with spray wand to control water flow rate, direction, and pressure.

Quick Connect Spray Wand: Allows the user to quickly change out high-pressure nozzles. See How To Use Spray Wand instructions in this section.

Chemical Hose (not shown): Feeds cleaning agents into the pump to mix with the water. See How To Apply Chemicals/Cleaning Solvents instructions in this section.

BASIC ELEMENTS OF AN FNGINF

Refer to the engine manual for location and operation of engine controls.

Choke Control: Opens and closes carburetor choke valve

Throttle Control Lever: Controls engine speed.

Starter Grip: Pulling starter grip operates recoil starter to crank engine.

Fuel Valve Lever: Opens/closes connection between fuel tank and carburetor.

Engine Switch: Enables and disables ignition system.

PRESSURE WASHER TERMINOLOGY

PSI: Pounds per Square Inch. The unit of measure for water pressure. Also used for air pressure, hydraulic pressure, etc.

GPM: Gallons Per Minute. The unit of measure for the flow rate of water.

CU: Cleaning Units. GPM x PSI = CU.



PRESSURE WASHER TERMINOLOGY (continued)

Bypass Mode: Allows water to re-circulate within pump when the gun trigger is not pulled.

CAUTION

Allowing the unit to run for more than

two minutes without the gun trigger pulled could cause overheating and damage to the pump.

Thermal Relief Valve: When the temperature inside the pump rises too high the valve will open and release a gush of water in an effort to lower the temperature inside the



pump. The valve will then close.

Chemical Injection System: Mixes cleaners or cleaning solvents with the water to improve cleaning effectiveness.

Water Supply: All pressure washers must have a source of water. The minimum requirements for a water supply are 20 PSI and 5 gallons per minute.

PRESSURE WASHER OPERATING FEATURES PRESSURE ADJUSTMENTS

The pressure setting is preset at the factory to achieve optimum pressure and cleaning. If you need to lower the pressure, it can be accomplished by these methods.

- Back away from the surface to be cleaned. The further away you are, the less the pressure will be on the surface to be cleaned.
- Change to the 40° (white)
 nozzle this nozzle delivers a less
 powerful stream of water and a
 wider spray pattern.
- Reduce the speed of the gasoline engine (RPM). Slow the engine down and the water pressure will go down with it.

▲ CAUTION

DO NOT attempt to increase pump

pressure. A higher pressure setting than the factory set pressure may damage pump.



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READ AND UNDERSTAND ALL WARNINGS BEFORE STARTING UNIT

Mhen using the high pressure setting, DO NOT allow the high pressure spray to come in contact with unprotected skin, eyes, or with any pets or animals. Serious injury can occur.

Your washer operates at fluid pressures and velocities high enough to penetrate human and animal flesh, which could result in amputation or other serious injury. Leaks caused by loose fittings or worn or damaged hoses can result in injection injuries. **DO NOT TREAT FLUID INJECTION AS A SIMPLE CUT! See a physician immediately!**

NEVER fill fuel tank when engine is running or hot. Do not smoke when filling fuel tank.

NEVER fill fuel tank completely. Fill tank to 1/2" below bottom of filler neck to provide space for fuel expansion. Wipe any fuel spillage from engine and equipment before starting engine.

NEVER run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains carbon monoxide, an odorless and deadly gas.

DO NOT let hoses come in contact with very hot engine muffler during or immediately after use of your pressure washer. Damage to hoses from contact with hot engine surfaces will NOT be covered by warranty.

ACAUTIONNEVER pull water supply hose to move pressure washer. This could damage hose and/or pump inlet.

DO NOT use hot water, use cold water only.

NEVER turn water supply off while pressure washer engine is running or damage to pump will result.

DO NOT stop spraying water for more than two minutes at a time. Pump operates in bypass mode when spray gun trigger is not pressed. If pump is left in bypass mode for more than two minutes internal components of the pump can be damaged.

If you do not understand these precautions, please call 1-800-888-2468 to speak to a service representative for further instructions.

TO USE SPRAY WAND

The nozzles for the spray wand are stored in nozzle holder on the panel assembly. Colors on the panel identify nozzle location and spray pattern. See chart to choose the correct nozzle for the job to be performed.

Nozzle Color	Red	Yellow	Green	White	Black
	0°	15°	25°	40°	low pressure
Spray Pattern			-		
Uses	powerful pinpoint for very intense cleaning	intense cleaning of small areas	intense cleaning of larger areas	covers wide areas of cleaning	applies cleaning solutions
Surfaces *	Metal or concrete DO NOT use on wood	metal, concrete, or wood	metal, concrete, or wood	metal, concrete, wood, or vinyl	metal, concrete, wood, or vinyl

* The high pressure spray from your pressure washer is capable of causing damage to surfaces such as wood, glass, automobile paint, auto striping and trim, and delicate objects such as flowers and shrubs. Before spraying, check the item to be cleaned to assure yourself that it is strong enough to resist damage from the force of the spray.



Changing Nozzles on Spray Wand

▲WARNING

Risk of Flying Object could cause risk of

serious injury. DO NOT attempt to change nozzles while pressure washer is running. Turn engine off before changing nozzles.



- 1. Pull quick connect coupler back and insert nozzle.
- Release quick connect coupler and twist nozzle to make sure it is secure in coupler.

AWARNING

Risk of Flying Object could cause risk of

serious injury. Ensure nozzle is completely inserted in QC socket, and QC snap ring is fully engaged (forward) before squeezing gun trigger.

▲WARNING

Risk of injection or injury to person. Do

not direct discharge stream toward persons, unprotected skin, eyes, or any pets or animals. Serious injury can occur.

HOW TO APPLY CHEMICALS AND CLEANING SOLVENTS

Applying chemicals or cleaning solvents is a low pressure operation. **NOTE:** Use only soaps and chemicals designed for pressure washer use. **Do not use bleach.**

To Apply chemicals:

1. Press chemical hose onto barbed fitting located near high pressure hose connection of pump as shown.



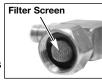
- Place other end of chemical hose with filter on it into container holding chemical/cleaning solution. NOTE: For every 7 gallons of water pumped 1 gallon of chemical/cleaning solution will be used.
- Install low pressure (black) nozzle into quick connect fitting of spray wand, see How To Use Spray Wand paragraph in this section.
- 4. After use of chemicals, place chemical hose into container of clean water and draw clean water through chemical injection system to rinse system thoroughly. If chemicals remain in the pump it could be damaged. Pumps damaged due to chemicals will not be covered under warranty.

NOTE: Chemicals and soaps will not siphon when spray wand is in the high pressure setting.

STARTING

Prior to starting, refer to your engine manual for proper starting procedure.

- 1. In a well ventilated outdoor area add fresh, high quality, unleaded gasoline with a pump octane rating of 86 or higher. Do not overfill. Wipe up spilled fuel before starting the engine. Refer to Engine Owners Manual for correct procedure.
- Check engine oil level. See
 Engine Owners Manual for correct procedure.
- 3. Verify the filter screen is in water inlet of pump. NOTE: Cone side faces out.



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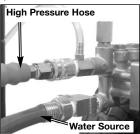


STARTING (continued)

Connect water source to pump inlet.

NOTE: Water source must provide a minimum of 5 gallons per minute at 20 PSI.

5. Connect high pressure hose to pump outlet.



- 6. If applying a chemical or cleaning solution, see How To Apply Chemicals/Cleaning Solvents instructions in this section.
- 7. Turn water source on. NOTE: Failure to do so could cause damage to the pump.
- 8. Start engine. See Engine Owners Manual for correct procedure. NOTE: When engine rope is pulled, pressure starts building in the gun. If the engine does not start after two pulls, pull the gun trigger to relieve this pressure.

- Depress trigger on gun to start water flow. NOTE: Stand on a stable surface and grip gun/spray wand firmly with both hands. Expect the gun to kick when triggered.
- 10. Release trigger to stop water flow.
- 11. Adjust spray for the task being performed by changing quick connect nozzle. See How To Use Spray Wand instructions in this section.

SHUTTING DOWN

- After each use, if you have applied chemicals, place chemical hose into container of clean water and draw clean water through chemical injection system to rinse system thoroughly. NOTE: Failure to do so could cause damage to the pump.
- 2. Turn engine off. See Engine Owner's Manual. NOTE: NEVER turn the water off with the engine running.
- 3. Turn water source off.
- Pull trigger on spray gun to relieve any water pressure in hose or spray gun.
- See Storage section in this manual for proper storage procedures.

MAINTENANCE

▲WARNING

When performing maintenance, you

may be exposed to hot surfaces, water pressure, or moving parts that can cause serious injury or death!

Before performing any maintenance or repair, disconnect spark plug wire, let engine cool and release all water pressure. The engine contains flammable fuel. DO NOT smoke or work near open flames while performing maintenance.

To ensure efficient operation and longer life of your pressure washer, a routine maintenance schedule should be prepared and followed. If the

pressure washer is used in unusual conditions, such as high-temperatures or dusty conditions, more frequent maintenance checks will be required.

ENGINE

Consult the Engine Owners Manual for the manufacturer's recommendations for any and all maintenance. **NOTE:** The frame is equipped with an oil drain hole to help make changing the engine oil easier.



PUMP

NOTE: The pump was filled with oil at the factory.

 Change pump oil after the first ten (10) hours of operation and every fifty (50) hours thereafter.

To Check Oil:

 The oil level should come to the red dot in the middle of the sight glass.



How To Change Pump Oil

- 1. Loosen oil fill plug.
- 2. Place a container under the oil drain plug.
- 3. Remove oil drain plug.
- 4. After oil is drained replace oil drain plug. Tighten securely.
- Remove oil fill plug and fill to the red dot in the middle of the sight glass with EXA70 pump oil, if EXA70 is not available use 30W non detergent oil.
- 6. Replace oil fill plug and tighten securely.

NOZZLE CLEANING

If the nozzle becomes clogged with foreign materials, such as dirt, excessive pressure may develop. If the nozzle becomes partially clogged or restricted, the pump pressure will pulsate. Clean the nozzle immediately using the nozzle kit supplied and the following instructions:

- 1. Shut off the pressure washer and turn off the water supply.
- **2.** Pull trigger on gun handle to relieve any water pressure.
- **3.** Disconnect the spray wand from the gun.

4. Remove the high-pressure nozzle from the spray wand. Remove any obstructions with the nozzle cleaning tool provided and backflush with clean water.

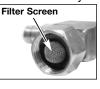


- Direct water supply into spray wand to backflush loosened particles for 30 seconds.
- **6.** Reassemble the nozzle to the wand.
- 7. Reconnect spray wand to gun and turn on water supply.
- Start pressure washer and place spray wand into high pressure setting to test.

HOW TO CLEAN THE WATER INLET FILTER

This screen filter should be checked periodically and cleaned if necessary.

1. Remove filter
by grasping
end and
removing it
from water inlet
of pump as
shown.



- **2.** Clean filter by flushing it with water on both sides.
- Re-insert filter into water inlet of pump. NOTE: Cone side faces out.

NOTE: Do not operate pressure washer without filter properly installed.

HOW TO REMOVE THE WHEELS

1. Using a 1/8" hex head wrench loosen set screw in hub collar.



2. Slide hub collar from axle and remove the tire.

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STORAGE

ENGINE

Consult the Engine Owners Manual for the manufacturer's recommendations for storage.

PUMP

The manufacturer recommends using a pump protector/winterizer, such as EXA80, when storing the unit for more than 30 days and/or when freezing temperatures are expected. If a pump protector/winterizer is not available. *RV antifreeze needs to be run through the pump as outlined in the steps below.NOTE: Using a pump protector/winterizer or *RV antifreeze is to provide proper lubrication to the internal seals of the pump regardless of temperature or environment.

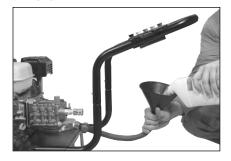
1. Obtain a funnel, six ounces of *RV antifreeze, and 16 - 36 inches of garden hose with a male hose connector attached to one end.

ACAUTION

damage pump.

Use only RV antifreeze. Any other antifreeze is corrosive and can

- 2. Disconnect spark plug wire.
- Connect length of garden hose 3. to water inlet of pump.
- 4. Add *RV antifreeze to hose as shown.

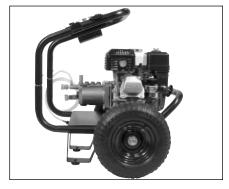


- 5. Pull engine starter rope slowly several times until antifreeze comes out of high pressure hose connection of pump.
- 6. Remove garden hose from water inlet of pump.
- 7. Reconnect spark plug wire.

*Windshield washer fluid may also be

PRESSURE WASHER

- Drain all water from high pressure hose, coil it, and store it in cradle of the pressure washer handle.
- 2. Drain all water from spray gun and wand by holding spray gun in a vertical position with nozzle end pointing down and squeezing trigger. Store in gun holder.
- 3. Store chemical hose so it is protected from damage.
- 4. If space is needed, remove handles and replace as shown.





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	TROUBLE SHOOTING	GUIDE
PROBLEM	CAUSE	CORRECTION
Engine will not	No fuel.	Add Fuel.
start (see Engine Manual for	Low oil	Add required amount of oil.
further engine troubleshooting)	Pressure builds up after two pulls on the recoil starter or after initial use.	Squeeze gun trigger to relieve pressure.
	Choke lever in the "No Choke" position.	Move choke to the "Choke" position.
	Spark plug wire not attached.	Attach spark plug wire.
	Engine ON/OFF switch in OFF position	Place engine ON/OFF switch in on position.
	Choke lever in the "Choke" position on a "hot" engine or an engine that has been exposed to thermal heat for a long period of time.	Move choke to the "No Choke" position.
	Fuel valve closed	Move the fuel valve lever to the "Open" position.
No or low pressure (initial use)	Spray wand not in high pressure.	See How to Use Spray Wand instructions in the Operation Section.
	Low water supply.	Water supply must be at least 5 GPM @ 20 PSI.
	Leak at high pressure hose fitting.	Repair leak. Apply sealant tape if necessary.
	Nozzle obstructed.	See Nozzle Cleaning instructions in the Maintenance section.
	Water filter screen clogged.	Remove and clean filter.
	Defective E-Z start valve.	Check with Authorized Warranty Service Center (AWSC.)
	Air in hose.	Turn off the engine, then the water source. Disconnect the water source from the pump inlet and turn the water source on to remove all air from the hose. When there is a steady stream of water present, turn water source off. Re-connect water source to pump inlet and turn on water source. Squeeze trigger to remove remaining air
	Choke lever in the "Choke" position.	Move choke to the "No Choke" position.
	Throttle control lever is not in the "Fast" position.	Move throttle control lever to the "Fast" position.
	High pressure hose is too long.	Use high pressure hose under 100 feet.
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PROBLEM	CAUSE	CORRECTION
Will not draw chemicals	Spray wand not in low pressure.	See How to Use Spray Wand paragraph in the Operation Section.
	Chemical filter clogged.	Clean filter.
	Chemical screen not in cleaning solution.	Make sure end of chemical hose is fully submerged into cleaning solution.
	Chemical too thick.	Dilute chemical. Chemical should be the same consistency as water.
	Pressure hose is too long	Lengthen water supply hose instead of high pressure hose.
	Chemical build up in chemical injector.	Have parts cleaned or replaced by AWSC.
No or low	Worn seal or packing	Have replaced by AWSC.
pressure (after period of	Worn or obstructed valves.	Have replaced by AWSC.
normal use)	Worn unloader piston.	Have replaced by AWSC.
	Worn E-Z start valve.	Have replaced by AWSC.
Water leaking at	Worn or broken o-ring.	Check and replace.
gun/spray wand connection	Loose hose connection.	Tighten.
Water leaking	Loose connections.	Tighten.
at pump	Piston packings worn.	Have replaced by AWSC.
	Worn or broken o-rings.	Have replaced by AWSC.
	Pump head or tubes damaged from freezing.	Have replaced by AWSC.
Oil leaking at	Oil seals worn.	Have replaced by AWSC
pump	Loose drain plug.	Tighten.
	Worn drain plug o-ring	Check and replace.
	Worn fill plug o-ring.	Check and replace.
	Pump overfilled.	Check for correct amount.
	Incorrect oil used.	Drain and fill with correct amount and type of oil.
	Vent plug is clogged.	Clean vent plug; blow air through it to remove any blockage. If problem persists, replace plug.
Pump Pulsates	Nozzle obstructed.	See Nozzle Cleaning paragraph in the Maintenance section for the correct procedure.



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LIMITED WARRANTY

DeVilbiss Air Power Company warrants to the original purchaser that the commercial rated pressure washers covered under this warranty are free from defects in material and workmanship for two years from the date of purchase.

DeVilbiss Air Power Company will repair or replace, at DeVilbiss' option, products or components which have failed within the warranty period. Service will be scheduled according to the normal work flow and business hours at the service center location, and the availability of replacement parts. All decisions of DeVilbiss Air Power Company with regard to this limited warranty shall be final.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RESPONSIBILITY OF ORIGINAL PURCHASER (initial User):

- To process a warranty claim on this product, DO NOT return it to the retailer. The product must be
 evaluated by an Authorized Warranty Service Center. For the location of the nearest Authorized
 Warranty Service Center call 1-800-888-2468, 24 hours a day, 7 days a week or visit our web site @
 devap.com.
- · Retain original cash register sales receipt as proof of purchase for warranty work.
- Use reasonable care in the operation and maintenance of the product as described in the Owners Manual(s).
- Deliver or ship the product to the nearest Authorized Warranty Service Center. Freight costs, if any, must be paid by the purchaser.
- If the purchaser does not receive satisfactory results from the Authorized Warranty Service Center, the purchaser should contact DeVilbiss Air Power Company.

THIS WARRANTY DOES NOT COVER:

- · Merchandise sold as reconditioned, used as rental equipment, or floor or display models.
- Merchandise that has become damaged or inoperative because of ordinary wear, misuse*, cold, heat,
 rain, excessive humidity, freeze damage, use of improper chemicals, negligence, accident, failure to
 operate the product in accordance with the instructions provided in the Owners Manual(s) supplied
 with the product, improper maintenance, the use of accessories or attachments not recommended
 by DeVilbiss Air Power Company, or unauthorized repair or alterations.
- Repair and transportation costs of merchandise determined not to be defective.
- Costs associated with assembly, required oil, adjustments or other installation and start-up costs.
- Expendable parts or accessories supplied with the product which are expected to become inoperative
 or unuseable after a reasonable period of use, including but not limited to springs, nozzles,
 o-rings, air iets, washers, and similar accessories.
- Merchandise sold by DeVilbiss Air Power Company which has been manufactured by and identified
 as the product of another company, such as gasoline engines. The product manufacturer's warranty, if
 any, will apply.
- ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY
 RESULT FROM ANY DEFECT, FAILURE OR MALFUNCTION OF THE PRODUCT IS NOT
 COVERED BY THIS WARRANTY. Some states do not allow the exclusion or limitation of incidental
 or consequential damages, so the above limitation or exclusion may not apply to you.
- IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A
 PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF ORIGINAL
 PURCHASE. Some states do not allow limitations on how long an implied warranty lasts, so the
 above limitations may not apply to you.

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