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# SIMONIZ<sup>®</sup>

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## Operator's Manual

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**Do Not return this product to the retailer! Questions? 1-866-293-9274**

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

Purchase Date: \_\_\_\_\_ Serial #: \_\_\_\_\_

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### Gas Powered Pressure Washer S2000

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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.*

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## SAFETY GUIDELINES - DEFINITIONS



This manual contains information that is important for you to know and understand. This information relates to **YOUR SAFETY** and **PREVENTING EQUIPMENT PROBLEMS**. Please read the manual and pay attention to these symbols below.

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

## IMPORTANT SAFETY INSTRUCTIONS

**⚠ WARNING** Do not operate this unit until you have read and understood this Operator's Manual and the Engine Owner's Manual for Safety, Operation, and Maintenance Instructions.

*READ AND SAVE THESE INSTRUCTIONS*

HAZARD	
<p><b>⚠ DANGER</b> RISK OF EXPLOSION OR FIRE</p>	 
WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> <li>Spilled gasoline and its vapours can ignite from cigarette sparks, electrical arcing, exhaust gases, and hot engine components such as the muffler.</li> <li>Heat will expand fuel in the tank which could result in spillage and possible fire or explosion.</li> <li>Operating the pressure washer in an explosive environment could result in a fire.</li> </ul>	<ul style="list-style-type: none"> <li>Shut off engine and allow it to cool before adding fuel to the tank.</li> <li>Use care in filling tank to avoid spilling fuel. Move pressure washer away from fueling area before starting engine.</li> <li>Keep maximum fuel level ½" below top of tank to allow for fuel expansion.</li> <li>Operate and fuel equipment in well ventilated areas free from obstructions. Equip areas with a fire extinguisher suitable for gasoline fires.</li> </ul>

**HAZARD**

**⚠ DANGER**

**RISK OF EXPLOSION OR FIRE (continued)**



WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> <li>Materials placed against or near the pressure washer can interfere with proper ventilation causing overheating and may ignite materials.</li> <li>Muffler exhaust heat can damage painted surfaces, melt any material sensitive to heat (such as siding, plastic, rubber, or vinyl), and damage live plants.</li> <li>Improperly stored fuel may ignite. Fuel improperly secured could get into the hands of children or other unqualified persons.</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>Never operate pressure washer in an area containing dry brush, weeds, or any flammable containers or materials.</li> <li>Always keep pressure washer a minimum of 4' away from surfaces (such as houses, automobiles, or live plants) that could be damaged from muffler exhaust heat.</li> <li>Store fuel in an OSHA approved container, in a secure location away from work area.</li> <li>Do not spray flammable liquids.</li> </ul>

**HAZARD**

**⚠ DANGER**

**RISK TO BREATHING**



WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> <li>Breathing exhaust fumes will cause serious injury or death!</li> <li>Some cleaning fluids contain substances which could cause injury to skin, eyes, or lungs.</li> </ul>	<ul style="list-style-type: none"> <li>Operate pressure washer in a well ventilated area. Avoid enclosed areas such as garages, basements, etc.</li> <li>Never operate unit in a location occupied by humans or animals.</li> <li>Use only cleaning fluids and detergents specifically recommended for high pressure washers. Follow manufacturer's recommendations. Do not use chlorine bleach or any other corrosive compound.</li> </ul>


**HAZARD**


**⚠ DANGER**


**RISK TO FLUID INJECTION**





WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> <li>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. <b>DO NOT TREAT FLUID INJECTION AS A SIMPLE CUT!</b> See a physician immediately!</li> <li>Injuries can result if system pressure is not reduced before attempting maintenance or disassembly.</li> </ul>	<ul style="list-style-type: none"> <li>Never place hands in front of nozzle.</li> <li>Direct spray away from self and others.</li> <li>Make sure hose and fittings are tightened and in good condition. Never hold onto the hose or fittings during operation.</li> <li>Do not allow hose to contact muffler.</li> <li>Never attach or remove wand or hose fittings while system is pressurized.</li> <li>To relieve system pressure, shut off engine, turn off water supply, and pull gun trigger until water stops flowing.</li> <li>Use only hoses and accessories rated for pressure higher than your pressure washer's PSI.</li> </ul>


<b>HAZARD</b>	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: black; color: white; padding: 5px;"><b>⚠ WARNING</b></div> <div><b>RISK OF CHEMICAL BURN</b></div>  </div>	
<b>WHAT CAN HAPPEN</b>	<b>HOW TO PREVENT IT</b>
<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> <li>Wear protective clothing to protect eyes and skin from contact with sprayed materials.</li> </ul>

<b>HAZARD</b>	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: black; color: white; padding: 5px;"><b>⚠ WARNING</b></div> <div><b>RISK OF ELECTRICAL SHOCK</b></div>  </div>	
<b>WHAT CAN HAPPEN</b>	<b>HOW TO PREVENT IT</b>
<ul style="list-style-type: none"> <li>Spray directed at electrical outlets or switches, or objects connected to an electrical circuit, could result in a fatal electrical shock.</li> </ul>	<ul style="list-style-type: none"> <li>Unplug any electrically operated product before attempting to clean it. Direct spray away from electric outlets and switches.</li> </ul>

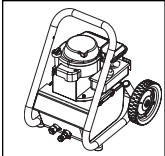
<b>HAZARD</b>	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: black; color: white; padding: 5px;"><b>⚠ WARNING</b></div> <div><b>RISK OF HOT SURFACES</b></div>  </div>	
<b>WHAT CAN HAPPEN</b>	<b>HOW TO PREVENT IT</b>
<ul style="list-style-type: none"> <li>Contact with hot surfaces, such as engines exhaust components, could result in serious burn.</li> <li>Carrying the unit while the engine is running could result in serious burns.</li> </ul>	<ul style="list-style-type: none"> <li>During operation, touch only the control surfaces of the pressure washer. Keep children and pets away from the pressure washer at all times. They may not be able to recognize the hazards of this product.</li> <li>Turn engine off and allow it to cool before carrying the pressure washer.</li> </ul>

<b>HAZARD</b>	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: black; color: white; padding: 5px;"><b>⚠ DANGER</b></div> <div><b>RISK OF INJURY OR PROPERTY DAMAGE WHEN TRANSPORTING OR STORING</b></div>  </div>	
<b>WHAT CAN HAPPEN</b>	<b>HOW TO PREVENT IT</b>
<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>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.</li> </ul>

HAZARD	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: black; color: white; padding: 5px; font-weight: bold;"> <span style="font-size: 1.2em;">⚠</span> <b>DANGER</b> </div> <div style="text-align: center;"> <b>RISK OF UNSAFE OPERATION</b> </div> <div style="text-align: right;">  </div> </div>	
WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> <li>Unsafe operation of your pressure washer could lead to serious injury or death to you or others.</li> </ul>	<ul style="list-style-type: none"> <li>Do not use chlorine bleach or any other corrosive compound.</li> <li>Become familiar with the operation and controls of the pressure washer.</li> <li>Keep operating area clear of all persons, pets, and obstacles.</li> <li>Do not operate the product when fatigued or under the influence of alcohol or drugs. Stay alert at all times.</li> <li>Never remove or alter the safety features of this product.</li> <li>Do not operate machine with missing, broken, or unauthorized parts.</li> <li>Never leave wand unattended while unit is running.</li> <li>Do not use this pressure washer in any way other than its intended purpose.</li> </ul>
<ul style="list-style-type: none"> <li><b>If proper starting procedure is not followed, engine can kickback causing serious hand and arm injury.</b></li> </ul>	<ul style="list-style-type: none"> <li><b>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.</b></li> </ul>
<ul style="list-style-type: none"> <li>The spray gun/wand is a powerful cleaning tool that could look like a toy to a child.</li> <li>Reactive force of spray will cause gun/wand to move, 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.</li> </ul>	<ul style="list-style-type: none"> <li>Keep children away from the pressure washer at all times.</li> <li>Do not overreach or stand on an unstable support. Grip gun/wand firmly with both hands. Expect the gun to kick when triggered.</li> </ul>

HAZARD	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: black; color: white; padding: 5px; font-weight: bold;"> <span style="font-size: 1.2em;">⚠</span> <b>WARNING</b> </div> <div style="text-align: center;"> <b>RISK OF INJURY FROM SPRAY</b> </div> <div style="text-align: right;">  </div> </div>	
WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> <li>High velocity fluid spray can cause objects to break, propelling particles at high speed.</li> <li>Light or unsecured objects can become hazardous projectiles.</li> </ul>	<ul style="list-style-type: none"> <li>Always wear ANSI approved Z87 safety glasses. Wear protective clothing to protect against accidental spraying.</li> <li>Never point wand at, or spray, people or animals.</li> <li>Always secure trigger lock when wand is not in service to prevent accidental operation.</li> <li>Never permanently secure trigger in pull back (open) position.</li> </ul>

## CARTON CONTENTS



Engine frame and wheel assembly



Engine oil

Knobs



Saddle bolts



Chemical hose

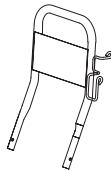


Hex key and cleaning tool

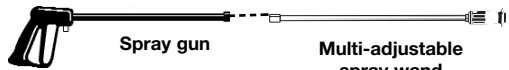
Bagged parts



High pressure hose



Handle



Spray gun

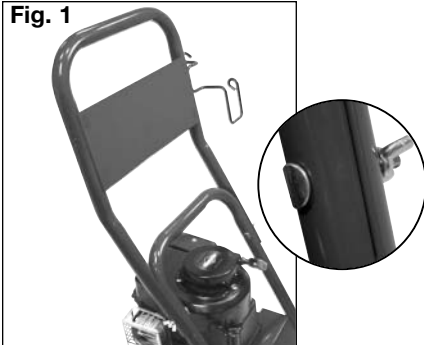
Multi-adjustable spray wand

Engine and Owner's Manual (not shown)

## ASSEMBLY INSTRUCTIONS

1. Place handle assembly onto frame and connect handle to frame. (see Fig.1)

Fig. 1



2. Connect wand to gun. Tighten securely. (see Fig. 2)

Fig. 2



3. Attach high pressure hose to gun. Tighten securely. (see Fig. 3)

Fig. 3



4. Add engine oil (supplied) to engine. Refer to Engine Owner's Manual (supplied by engine manufacturer) for correct procedure.

**NOTE:** There will be a slight amount of oil in the engine from factory testing.

**NOTE:** The pump on this unit is maintenance-free and requires no oil. If there is a problem with the pump call: 1-866-293-9274.

# 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.

**Fig. 4**



## 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.

**Multi-adjustable spray wand:** Allows the user to use high or low pressure and adjusts from a pencil stream (0°) to a wide angle fan spray (40°). See How To Use Wand instructions in this section.

**Detergent injection hose:** 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 ENGINE

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

**Primer button:** Injects fuel directly into the carburetor manifold for easier cold engine starting.

**Throttle control lever:** Controls engine speed.

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

## 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 multiplied by PSI.  $GPM \times PSI = CU$

**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.

**Detergent 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.

1. **Back away from the surface to be cleaned.** The further away you are, the less amount of pressure will be applied to the surface to be cleaned.

2. **Rotate the nozzle at the end of the multi-adjustable spray wand to widen the fan spray.** The wider fan spray will minimize the pressure on the surface to be cleaned.

**CAUTION** DO NOT attempt to increase pump pressure. A higher pressure setting than the factory set pressure may damage pump.

3. **Reduce the speed of the gasoline engine (RPM).** Slow the engine down and the water pressure will go down with it.

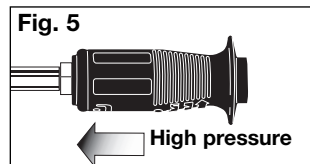
## HOW TO USE SPRAY WAND

Your pressure washer is equipped with a multi-adjustable spray wand with both high and low pressure settings. The high pressure setting is for cleaning and rinsing, the low pressure setting is for applying chemicals or cleaning solutions to surfaces.

**DANGER** When using the high pressure setting, DO NOT allow the jet-like spray to come in contact with unprotected skin, eyes, or with any pets or animals. Serious injury can occur.

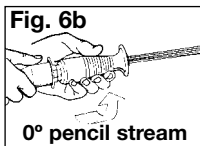
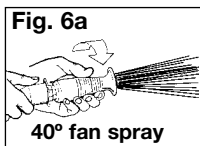
**WARNING** Risk of injection or injury to person. DO NOT direct discharge stream toward persons.

For high pressure operation, pull back the nozzle of the multi-adjustable spray wand as shown in fig 5.

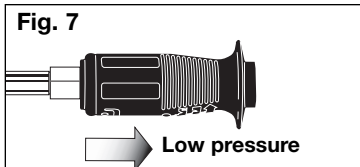




The nozzle at the end of the multi-adjustable spray wand can be rotated to change the high pressure spray pattern from a 0° pencil stream to a 40° fan spray (see Fig. 6a and 6b). Markings have been placed on the nozzle to help you select the spray pattern.



For low pressure operation, extend the nozzle of the multi-adjustable spray wand as shown in Fig 7.



**CAUTION** The powerful 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.

### READ AND UNDERSTAND ALL WARNINGS BEFORE STARTING UNIT

**DANGER** When using the high pressure setting, **DO NOT** allow the 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!**

**WARNING** **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 top of tank 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.

**NEVER** carry pressure washer with engine running, turn engine off and allow it to cool before carrying pressure washer.

**DO NOT** let hoses come in contact with 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.

**CAUTION** **NEVER** 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 1-866-293-9274.**

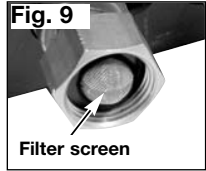
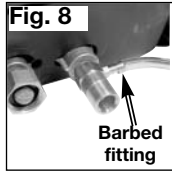
## HOW TO APPLY DETERGENT/CLEANING SOLVENTS

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

### To apply detergent/cleaning solvent:

- 1. Press detergent hose** onto barbed fitting located near high pressure hose connection of pump as shown in Fig 8.
- 2. Place other end** of detergent hose with filter on it into container holding detergent/cleaning solution. **NOTE:** For every 7 gallons of water pumped, 1 gallon of detergent/cleaning solution will be used.
- 3. Set multi-adjustable nozzle** to low pressure setting. See How To Use Wand paragraph in this section.
- 4. After use of detergent/cleaning solvents**, place detergent hose into container of clean water and draw clean water through detergent injection system to rinse system thoroughly. If detergent/cleaning solvents remain in the pump it could be damaged. Pumps damaged due to detergent/cleaning solvents will not be covered under warranty.

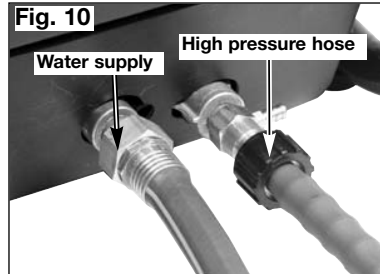
**NOTE:** Detergent/cleaning solvents will not siphon when spray wand is in the high pressure setting.



## STARTING

Prior to starting, refer to your Engine Owner's Manual for proper starting procedures.

- 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 Owner's Manual for correct procedure.
- 2. Check engine oil level.** See Engine Owner's Manual for correct procedure.
- 3. Verify the filter screen** is in water inlet of pump (see Fig. 9).
- 4. Connect water source** to pump inlet (see Fig. 10). **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 detergent or cleaning solvent**, see How To Apply Detergents/Cleaning Solvents instructions in this section.
- 7. Turn water supply on.** **NOTE:** Failure to do so could cause damage to the pump.

8. **Start engine.** See Engine Owner's 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.

9. **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.

**⚠ WARNING** Risk of Burns. Never carry pressure washer with engine running, turn engine off and allow it to cool before carrying pressure washer.

10. **Release trigger to stop water flow.**
11. **Adjust nozzle spray for the task** being performed. See How To Use Wand instructions in this section.

## SHUTTING DOWN

1. **After each use,** if you have applied detergent/cleaning solvents, place detergent hose into container of clean water and draw clean water through detergent 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 supply off.**
4. **Pull trigger on spray gun** to relieve any water pressure in hose or spray gun.
5. **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 Owner's Manual for the manufacturer's recommendations for any and all maintenance.

### PUMP

The pump on this unit is maintenance free and requires no oil. If there is a problem with the pump call 1-866-293-9274.

### NOZZLE CLEANING

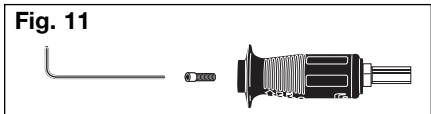
If the nozzle becomes clogged with foreign matter, such as dirt, excessive pressure may develop. If the nozzle becomes partially clogged or restricted, the pump pressure will pulsate. Clean the nozzle immediately using the nozzle kit supplied and the following instructions:

1. **Shut off the pressure washer** and turn off the water supply.
2. **Disconnect spark plug wire** to ensure the unit will not start while performing maintenance.
3. **Pull trigger on gun handle** to relieve any water pressure.
4. **Disconnect the wand from the gun.**
5. **Remove the nozzle from the end**

of the wand with the 2 mm hex key provided (see Fig.11).

**6. Clean the nozzle using the nozzle**

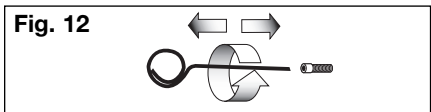
**Fig. 11**



cleaner provided or a straightened paper clip. Insert into the nozzle end and work back and forth until obstruction is removed (see Fig. 12).

**7. Direct water supply into nozzle**

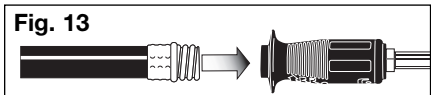
**Fig. 12**



end to backflush loosened particles for 30 seconds (see Fig. 13).

**8. Reconnect spark plug wire**

**Fig. 13**



**9. Reassemble the nozzle to the wand.** Tighten securely to prevent leaks.

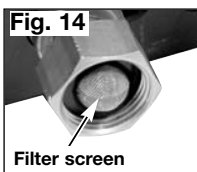
**10. Reconnect wand to gun** and turn on water supply.

**11. Start pressure washer** and place 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 (see Fig. 14).



**2. Clean filter** by flushing it with water on both sides.

**3. Re-insert filter** into water inlet of pump. **NOTE:** Do not operate pressure washer without filter properly installed.

# STORAGE

## ENGINE

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

## PUMP

The manufacturer recommends using a pump protector/winterizer 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**, 6 oz. of RV\* antifreeze, and 16 – 36" of garden hose with a male hose connector attached to one end.

**CAUTION** Use only RV\* antifreeze. Any other antifreeze is corrosive and can damage pump.

2. **Disconnect spark plug wire.**
3. **Connect hose** to water supply inlet of pump.
4. **Add RV\* antifreeze** to hose as shown in Fig. 15.



5. **Pull engine starter rope slowly several times** until antifreeze comes out of high pressure hose connection of pump.
  6. **Remove hose** from water supply inlet.
  7. **Reconnect spark plug wire.**
- \*Windshield washer fluid may also be used.*

## PRESSURE WASHER

1. 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.
3. Store detergent hose so it is protected from damage.

## TROUBLESHOOTING GUIDE

<b>PROBLEM</b>	<b>CAUSE</b>	<b>CORRECTION</b>
<b>Engine will not start (see Engine Manual for further engine troubleshooting)</b>	No fuel.	Add Fuel.
	Pressure builds up after two pulls on the recoil starter or after initial use.	Squeeze gun trigger to relieve pressure.
	Engine not primed	Push primer button three times
	Spark plug wire not attached.	Attach spark plug wire.
	Air filter clogged.	Clean air filter and reassemble.
<b>No or low pressure (initial use)</b>	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.
	Air in hose.	Turn off the engine, then the water supply. Disconnect the water supply from the pump inlet and turn the water supply on to remove all air from the hose. When there is a steady stream of water present, turn water supply off. Re-connect water supply to pump inlet and turn on water supply. Squeeze trigger to remove remaining air.
	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'.
<b>Will not draw detergent/cleaning solvents</b>	Spray wand not in low pressure.	See How to Use Spray Wand paragraph in the Operation Section.
	Detergent filter clogged.	Clean filter.
	Detergent screen not in detergent/cleaning solvent.	Make sure end of detergent hose is fully submerged into cleaning solution.
	Detergent/cleaning solvent too thick.	Dilute detergent/cleaning solution. Detergent/cleaning solution should be the same consistency as water.
	Pressure hose is too long	Lengthen water supply hose instead of high pressure hose.
	Detergent/cleaning solvent buildup in chemical injector.	Have parts cleaned or replaced by a certified mechanic.

<b>PROBLEM</b>	<b>CAUSE</b>	<b>CORRECTION</b>
<b>No or low pressure (after period of normal use)</b>	Worn seal or packing	Call: 1-866-293-9274
	Worn or obstructed valves.	Call: 1-866-293-9274
	Worn unloader piston.	Call: 1-866-293-9274
<b>Water leaking at gun/spray wand connection</b>	Worn or broken o-ring.	Check and replace.
	Loose hose connection.	Tighten.
<b>Water leaking at pump</b>	Loose connections.	Tighten.
	Piston packings worn.	Call: 1-866-293-9274
	Worn or broken o-rings.	Call: 1-866-293-9274
	Pump head or tubes damaged from freezing.	Call: 1-866-293-9274
<b>Pump Pulsates</b>	Nozzle obstructed.	See Nozzle Cleaning paragraph in the Maintenance section for the correct procedure.

## WARRANTY

### Engine Warranty

The first year of the engine warranty is the responsibility of Briggs & Stratton® Corporation. For complete details, please refer to the Briggs & Stratton® Operating & Maintenance Instructions.

For the second year of engine warranty, please call 1-866-293-9274.

### Gas Powered Pressure Washer Warranty

This Simoniz product carries a **two (2) year** repair warranty against defects in workmanship and materials. This product is not guaranteed against wear or breakage due to misuse and/or abuse. Hose, gun, wand and accessories carry a **ninety (90) day** warranty against defects in workmanship and materials.

The warranty commences on the date of purchase. The warranty herein is expressly conditioned upon the customer's compliance with all precautions and instructions contained within the Operator's Manual.

The warranty is void if any devices or accessories, other than those distributed or recommended by Trileaf Distribution, are attached to or connected with the equipment in such a manner that the original factory construction is altered.

Warranty is void if repairs are attempted by anyone other than an Authorized Service Centre. For an Authorized Service Centre nearest you, please call 1-866-293-9274.

This warranty shall not apply to any problem which is due to misuse, neglect, accident, abuse, improper handling, freezing, normal wear and tear, use of improper detergents/chemicals, or non-compliance with precautions and instructions contained within the Operator's Manual. Warranty is void if the pressure washer is used for commercial or industrial purposes. This warranty is non-transferable.

The liability of Trileaf Distribution is limited to repair of the product and/or replacement of parts and is given to the purchaser in lieu of all other remedies including incidental and consequential charges. There are no expressed warranties other than those specified herein.

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