

INDUSTRIAL RENTAL SERIES PRESSURE WASHER

INSTRUCTION MANUAL

MANUEL D'UTILISATION

MANUAL DE INSTRUCCIONES



DO NOT USE FUEL CONTAINING
GREATER THAN 10% ETHANDL!

N'UTILISEZ PAS UN CARBURANT DONT LA
TENEUR EN ÉTHANDL EST SUPÉRIEURE À 10%!
¡NO UTILICE COMBUSTILLES QUE
CONTENGAN MÁS DE 10% DE ETANDL!

NOTE: Photographs and line drawings used in this manual are for reference only and do not represent a specific model.

REMARQUE: Les photographies et schémas figurant dans ce guide sont incorporés seulement à titre de référence et ne représentent pas un model particulier.

NOTA: Las fotografías y los dibujos lineales utilizados en este manual son solo referencias y no representan un modelo específico.

If your pressure washer is not working properly or if there are parts missing or broken, please DO NOT RETURN IT TO THE PLACE OF PURCHASE. Contact our Customer Service Department at 1-877-362-4271 or www.simpsoncleaning.com

Si votre rondelle de pression ne travaille pas convenablement ou s'il y a des parties manquant ou cassé, s'il vous plaît le PAS LE RETOURNE AU LIEU D'ACHAT. Contacter notre département de service clients à 1-877-362-4271 o www.simpsoncleaning.com

Si su lavadora a presión no trabaja correctamente ó encuentra partes rotas ófaltantes, por favor NO LA REGRECE AL LUGAR DONDE LA COMPRO. Contáctese con nuestro Departamento de Servicio al Cliente llamando al 1-877-362-4271 ou www.simpsoncleaning.com

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

IMPORTANT: Assurez-vous que toute personne qui utilisera cet équipement lise attentivement ces instructions avant de l'utiliser.

IMPORTANTE: Aségurese por favor de que la persona que vaya a utilizar este equipo lea con cuidado y comprenda estas instrucciones antes de operar.

VEA EL ESPAÑOL EN LA CONTRAPORTADA. INSTRUCTIVO DE OPERACIÓN, CENTROS DE SERVICIO Y PÓLIZA DE GARANTÍA. **ADVERTENCIA:** LÉASE ESTE INSTRUCTIVO ANTES DE USAR EL PRODUCTO.

SAVE THIS MANUAL FOR FUTURE REFERENCE
LISEZ ET CONSERVEZ CES INSTRUCTIONS
CONSERVE ESTAS INSTRUCCIONES PARA FUTURAS CONSULTAS

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.

⚠ **DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

<u>^</u>WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, **may** result in **minor or moderate injury**.

NOTICE: Indicates a practice **not related to personal injury** which, if not avoided, **may** result in **property damage**.

IMPORTANT SAFETY INSTRUCTIONS

⚠ DANGER: Carbon Monoxide. Using an engine indoors can kill you in minutes. Engine exhaust contains high levels of carbon monoxide (CO), a poisonous gas you cannot see or smell. You may be breathing CO even if you do not smell engine exhaust.

- NEVER use an engine inside homes, garages, crawlspaces or other partly enclosed areas. Deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors does NOT supply enough fresh air.
- ONLY use outdoors and far away from open windows, doors and vents. These
 openings can pull in engine exhaust.
- Even when the engine is used correctly, CO may leak into your home. ALWAYS use
 a battery-powered or battery backup CO alarm in your house. Read and follow all
 directions for CO alarm before using. If you feel sick, dizzy or weak at anytime,
 move to fresh air immediately. See a doctor. You could have carbon monoxide
 poisoning.

⚠ WARNING: Do not operate this unit until you read this instruction manual and the engine instruction manual for safety, operation and maintenance instructions. If you have any questions regarding the product, please contact our customer service department at www.simpsoncleaning.com.

⚠ DANGER: Risk of injection or severe injury. Keep clear of nozzle. Do not direct discharge stream at persons or live animals. This product is to be used only by trained operators.

△WARNING: This product and its exhaust contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. In addition, some cleaning products and dust contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

⚠ WARNING: 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.

SAVE THESE INSTRUCTIONS

⚠ DANGER: RISK OF EXPLOSION OR FIRE					
WHAT CAN HAPPEN	HOW TO PREVENT IT				
 Spilled gasoline and it's vapors can become ignited from cigarette sparks, electrical arcing, exhaust gases and hot engine components such as the muffler. 	adding fuel to the tank.Use care in filling tank to avoid spilling fuel.				
 Heat will expand fuel in the tank which could result in spillage and possible fire explosion. 					
 Operating the pressure washer in an explosive environment could result in a fire. 					
 Materials placed against or near the pressure washer can interfere with its proper ventilation features causing overheating and possible ignition of the materials. 	containing dry brush or weeds.				
 Muffler exhaust heat can damage painted surfaces, melt any material sensitive to heat (such as siding, plastic, rubber, vinyl or the pressure hose, itself), and damage live plants. 	of 4' (1.2 m) away from surfaces (such as houses, automobiles or live plants) that				
 Improperly stored fuel could lead to accidental ignition. Fuel improperly secured could get into the hands of children or other unqualified persons. 	er, in a secure location away from work				
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.					



↑ DANGER: RISK TO BREATHING (ASPHYXIATION)

WHAT CAN HAPPEN

Breathing exhaust fumes will cause serious injury or death! Engine exhaust contains carbon monoxide, an odorless and deadly gas.

HOW TO PREVENT IT

- Operate pressure washer in a wellventilated area. Avoid enclosed areas such as garages, basements, etc.
- Never operate unit in or near a location occupied by humans or animals.
- Some cleaning fluids contain substances which could cause injury to skin, eyes or lungs.
- Use only cleaning fluids specifically recommended for high pressure washers. Follow manufacturers recommendations. Do not use chlorine bleach or any other corrosive compound.



⚠ DANGER: RISK OF FLUID INJECTION AND LACERATION

WHAT CAN HAPPEN

HOW TO PREVENT IT

- Your pressure 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!
- Inspect the high pressure hose regularly. Replace the hose immediately if it is damaged, worn, has melted from contacting the engine, or shows any signs of cracks, bubbles, pinholes, or other leakage. Never grasp a high pressure hose that is leaking or damaged.
 - Never touch, grasp or attempt to cover a pinhole or similar water leak on the high pressure hose. The stream of water IS under high pressure and WILL penetrate skin.
 - 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.
 - When using replacement lances or guns with this pressure washer, DO NOT use a lance and/or lance/gun combination that is shorter in length than what was provided with this pressure washer as measured from the nozzle end of the lance to the oun trigger.
- Injuries can result if system pressure is not reduced before attempting maintenance or disassembly.
- To relieve system pressure, shut off engine, turn off water supply and pull gun trigger until water stops flowing.
 - Use only accessories rated equal to or higher than the rating of the pressure washer.



⚠ DANGER: RISK OF INJURY FROM SPRAY

WHAT CAN HAPPEN	HOW TO PREVENT IT
High-velocity fluid spray can cause	Always wear ANSI-approved Z87.1
objects to break, projecting particles	safety glasses. Wear protective clothing
at high speed.	to protect against accidental spraying.
	Never point wand at or spray people or animals.
• Light or unsecured objects can	
become hazardous projectiles.	is not in service to prevent accidental
	operation.
	Never permanently secure trigger in pull-
	back (open) position.
M DANGER: RIS	K OF UNSAFE OPERATION
WHAT CAN HAPPEN	HOW TO PREVENT IT
Unsafe operation of your pressure	
washer could lead to serious injury or	corrosive compound.
death to you or others.	Become familiar with the operation and
death to you of others.	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 compromise the safety features of
	this product.
	Do not operate machine with missing, broken or unauthorized parts.
	ALWAYS keep guards or shields in place.
	Replace any that must be removed for
	service or that may be damaged.
	Never leave wand unattended while unit is
	running.
 If proper starting procedure is not 	
followed, engine can kickback causing	squeeze trigger of gun to relieve pump
serious hand and arm injury.	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	 Keep children away from the pressure
cleaning tool that could look like a toy to a child.	washer at all times.
Reactive force of spray will cause gun/	Do not overreach or stand on an unstable
wand to kickback, and could cause	support.
the operator to slip or fall or misdirect	
the spray. Improper control of gun/	standing on a ladder.
wand can result in injuries to self and	 Grip gun/wand firmly with both hands.
others.	Expect the gun to kickback when triggered.
	,



trailers.

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

· Oil could fill the cylinder and damage the engine if the unit is not stored or transported in an upright position.

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.
- Always transport and store unit in an upright position. Remove pressure washer from vehicle immediately upon arrival at vour destination.



↑ DANGER: RISK OF ELECTRICAL SHOCK

WHAT CAN HAPPEN

HOW TO PREVENT IT

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

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



↑ DANGER: RISK OF CHEMICAL BURN

WHAT CAN HAPPEN Use of acids, toxic or corrosive

HOW TO PREVENT IT

- chemicals, poisons, insecticides, or any kind of flammable solvent with this product could result in serious injury or death.
- Do not spray acids, gasoline, kerosene, or any other flammable materials with this product. Use only household detergents, cleaners and degreasers recommended for use with pressure washers.
- Wear protective clothing to protect eyes and skin from contact with sprayed materials.

↑ WARNING	a: RISK OF BURSTING		
WHAT CAN HAPPEN	HOW TO PREVENT IT		
Over inflation of tires could result in serious injury and property damage.	 Use a tire pressure gauge to check the tires pressure before each use and while inflating tires; see the tire sidewall for the correct tire pressure. NOTE: Air tanks, compressors and similar equipment used to inflate tires can fill small tires similar to these very rapidly. Adjust pressure regulator on air supply to no more than the rating of the tire pressure. Add air in small increments and frequently use the tire gauge to prevent over inflation. 		
 High-velocity fluid spray directed at pneumatic tire sidewalls (such as found on automobiles, trailers and the like) could damage the sidewall resulting in serious injury. 	 On pressure washers rated above 1600 PSI (11032 kPa) use the widest fan spray (40° nozzle) and keep the spray a minimum of 8" (20 cm) from the pneumatic tire sidewall. Do not aim spray 		



WARNING: RISK OF HOT SURFACES

rim.

directly at the joint between the tire and

	WHAT CAN HAPPEN	HOW TO PREVENT IT				
•	Contact with hot surfaces, such as	During operation, touch only the control				
	engine exhaust components, could result in serious burn.	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.				



↑ WARNING: RISK OF INJURY FROM LIFTING

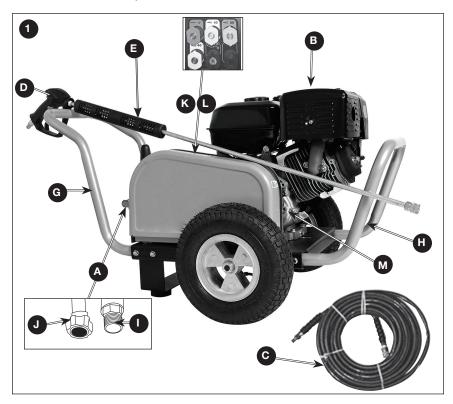
WHAT CAN HAPPEN					HOW TO PREVENT IT		
•	 Serious injury can result from 				from	•	The pressure washer is too heavy to be
	attempting to lift too heavy an object.			bject.		lifted by one person. Obtain assistance	
						from others before lifting.	

SAVE THESE INSTRUCTIONS FOR FUTURE USE

GET TO KNOW THE PRESSURE WASHER

NOTE: Photographs and line drawings used in this manual are for reference only and do not represent a specific model.

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 (FIG. 1)

- A. High Pressure Pump: Increases the pressure of the water supply.
- **B.** Engine: Drives the high pressure pump. Refer to the Engine Owner's Manual for location and operation of engine controls.
- **C. High Pressure Hose:** Carries the pressurized water from the pump to the gun and spray wand.
- D. Spray Gun: Connects with spray wand to control water flow rate, direction and pressure.
- E. Quick-Connect Spray Wand: Allows the user to quickly change out high pressure nozzles. See How To Use Spray Wand instructions in *Operation* section.
- F. Detergent Siphon Hose (not shown): Feeds cleaning agents into the pump to mix with the water. See How To Apply Chemicals/Cleaning Solvents instructions in Operation section.

- G. Handle
- H. Frame
- I. Pump Outlet
- J. Pump Inlet
- K. Quick Connect Nozzles
- L. Nozzle Holder
- M. Belt Cover

BASIC ELEMENTS OF AN ENGINE

Refer to the Engine Owner's Manual for location and operation of engine controls.

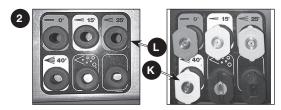
Choke Control: Opens and closes carburetor choke valve.

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

Engine Switch: Enables and disables ignition system.

ASSEMBLY INSTRUCTIONS (FIG. 2)

- 1. Locate and remove all loose parts from the carton.
- 2. Cut four corners of the carton from top to bottom and lay the panels flat.
- 3. Remove the colored quick-connect nozzles (K) from the plastic bag and insert them into correct grommet on the nozzle holder (L). Nozzles are color coded to match colored nozzles on label.



- 4. Connect wand (E) to gun (D). Tighten securely.
- 5. Attach high pressure hose (C) to gun (D). Tighten securely.

NOTICE: The engine is shipped without oil. Before starting engine, add the oil provided. Damage to the engine will occur if the engine is run without oil, this damage will not be covered under warranty.

NOTICE: The high-pressure pump was filled with oil at the factory. Always check oil level before using (refer to **Maintenance** for more information).

OPERATION

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 equals CU.

Bypass Mode: Allows water to re-circulate within the pump when the gun trigger is not pulled. This feature allows the operator to release the trigger gun and reposition themselves without having to turn the engine off in between cleaning actions.

⚠ WARNING: Do not allow the unit to run for more than two minutes without the gun trigger being pulled. This could cause overheating and damage to the pump. When the temperature inside the pump rises too high, the thermal relief valve will open and release a spray of water from the pump to lower the internal temperature. The valve will then close.

Thermal Relief Valve (P, Fig. 3): When the temperature inside the pump rises too high, this valve will open and release a gush of water in an effort to lower the temperature inside the pump. The valve will then close.

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. If your water source is a well, the garden hose length can only be 30 ft. (9 m) max.

<u>MARNING</u>: To reduce the possibility of contamination always protect against backflow when connected to a potable water system.

PRESSURE WASHER OPERATING FEATURES

PRESSURE ADJUSTMENTS (FIG. 4)

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 the pressure will be on the surface to be cleaned.
- 2. Change to the 40° nozzle (white). This nozzle delivers a less powerful stream of water and a wider spray pattern. Refer to How To Use Spray Wand.
- 3. This pressure washer's high pressure pump is equipped with an additional feature that allows the pressure setting to be adjusted.

To lower the pressure, turn the pressure control knob on the pump counterclockwise to the desired pressure.

To return the pump pressure to the factory setting, turn the pressure control knob on the pump clockwise until it stops.



NOTICE: DO NOT overtighten the pressure control knob, if overtightened the knob COULD break and result in immediate loss of water pressure and costly repairs to the unit.

HOW TO USE SPRAY WAND

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

CHANGING NOZZLES ON SPRAY WAND (FIG. 5)

⚠ DANGER: Risk of fluid injection. Do not direct discharge stream toward persons, unprotected skin, eyes or any pets or animals. Serious injury will occur.

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

MARNING: Flying object could cause risk of serious injury. Ensure nozzle is completely inserted in quick-connect socket and quick-connect collar is fully engaged (forward) before squeezing gun trigger.



NOZZLE COLOR	SPRAY PATTERN	USES	SURFACES*	
Red	0°	powerful pinpoint for spot cleaning of hard, unpainted surfaces or for high reach areas	unpainted metal or concrete; DO NOT use on wood	
Yellow	15°	intense cleaning of unpainted hard surfaces	grills, driveways, concrete or brick walkways, unpainted brick or stucco	
Green	25°	standard cleaning nozzle for most applications	yard tools, sidewalks, lawn furniture, unpainted siding, stucco, gutters and eaves, concrete, brick surfaces	
White	40°	cleaning of painted or delicate surfaces	auto/RV, marine, wood, painted brick and stucco, vinyl, painted siding	
Black	low pressure	applies cleaning solutions	Low pressure spray is safe on all surfaces. Always verify compatibility of cleaning solution prior to use.	

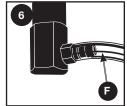
*NOTICE: The high pressure spray from your pressure washer is capable of causing damage to surfaces such as wood, glass, automobile paint, auto striping and trim, and delicate objects such as flowers and shrubs. Before spraying, check the item to be cleaned to assure yourself that it is strong enough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

HOW TO APPLY CHEMICALS/CLEANING SOLVENTS (FIG. 6)

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:

- Ensure detergent siphon hose (F, Figure 6) is attached to barbed fitting location near high pressure hose connection of pump as shown.
- Place other end of detergent siphon 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.



- 3. 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 detergent siphon 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 chemical residue will not be covered under warranty.

NOTE: Chemicals and soaps will not siphon if the black soap nozzle is not installed on the spray wand.

STARTING (FIG. 7-10)

MARNING: To reduce the risk of injury, read the pressure washer instruction manual and the engine instruction manual before starting pressure washer.

⚠ DANGER: Risk of fluid injection and laceration. When 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 will 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!

⚠ DANGER: Carbon Monoxide. Using an engine indoors can kill you in minutes. Engine exhaust contains high levels of carbon monoxide (CO), a poisonous gas you cannot see or smell. You may be breathing CO even if you do not smell engine exhaust.

- Breathing exhaust fumes will cause serious injury or death! Engine exhaust contains carbon monoxide, an odorless and deadly gas.
- Operate pressure washer in a well-ventilated area. Avoid enclosed areas such as garages, basements, etc.
- Never operate unit in or near a location occupied by humans or animals.

 $\underline{\wedge}$ WARNING: Risk of Fire, Asphyxiation and Burn. 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" (12.7 mm) below bottom of filler neck to provide space for fuel expansion. Wipe any fuel spillage from engine and equipment before starting engine.
- 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.

NOTICE: Risk of property damage. 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 contact our customer service department at www.simpsoncleaning.com

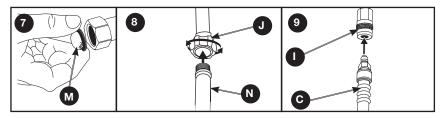
Prior to starting, refer to your engine manual for proper starting procedure.

 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.

IMPORTANT: Ethanol Shield[™] (sold separately) is a fuel stabilizer that helps eliminate and prevent ethanol related problems in power equipment. Follow the instructions on the container and add to the gasoline.



- 2. Check engine oil level. Refer to **Engine Owner's Manual** for correct procedure.
- Check pump oil level. The oil level should come to the dot in the middle of the sight glass. Refer to the **Pump** paragraph under *Maintenance*.
- Connect the water hose to the water source. Turn the water source on to remove all air from the hose. When a steady stream of water is present, turn the water source off.
- Verify the filter screen (M) is in water inlet of pump. NOTE: Convex side faces out.
- Connect water source (N) to pump inlet (J). NOTE: Water source must provide a minimum of 5 gallons per minute at 20 PSI.
- 7. Connect high pressure hose (C) to pump outlet (I).



riangle WARNING: To reduce the possibility of contamination always protect against backflow when connected to a potable water system.

 Choose the correct nozzle for the job to be performed. See How To Use spray Wand instructions in this section. NOTE: If applying a chemical or cleaning solution, see How To Apply Chemicals/Cleaning Solvents instructions in this section. 9. Turn water source on.

NOTICE: Risk of property damage. Failure to do so could cause damage to the pump.

- 10. Remove all air from the pump and high pressure hose by depressing trigger until a steady stream of water is present.
- 11. Start engine. See **Engine Owner's Manual** for correct procedure.

MARNING: Risk of unsafe operation. 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.

NOTE: If the oil level in the engine is low, the engine will not start. If the engine does not start, check the oil level and add oil as needed.

12. Depress trigger on gun to start water flow.

⚠ WARNING: Do not allow the unit to run for more than two minutes without the gun trigger being pulled. This could cause overheating and damage to the pump. When the temperature inside the pump rises too high, the thermal relief valve will open and release a spray of water from the pump to lower the internal temperature. The valve will then close.

⚠ WARNING: Risk of unsafe operation. Stand on a stable surface and grip gun/spray wand firmly with both hands. Expect the gun to kick when triggered.

13. Release trigger to stop water flow.

⚠ WARNING: Risk of injury from spray. Always engage the trigger lock (O) when gun is not in use. Failure to do so could cause accidental spraying.

SHUTTING DOWN

After each use, if you have applied chemicals, place detergent siphon hose into container of clean water and draw clean water through chemical injection system to rinse system thoroughly.



NOTICE: Risk of property damage. Failure to do so could cause damage to the pump.

2. Turn engine off. See **Engine Owner's Manual**.

NOTICE: Risk of property damage. 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.
 NOTE: Failure to release system pressure will prevent removal of high pressure hose from spray gun or pump connection.
- 5. See **Storage** section in this manual for proper storage procedures.

MAINTENANCE

⚠ WARNING: Risk of burn hazard. When performing maintenance, you may be exposed to hot surfaces, water pressure or moving parts that can cause serious injury or death.

⚠ WARNING: Risk of fire hazard. Always disconnect, spark plug wire, let the engine cool and release all water pressure before performing any maintenance or repair. 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. **NOTE:** The engine drain plug is located at the rear of the unit.

PUMP (FIG. 11)

NOTE: The Pump was filled with oil at the factory. The preferred oil is SIMPSON® Premium Pump Crankcase Oil. If this oil is not available, an SAE 15W-40 oil may be used. Change the pump oil after the first 50 hours of operation and every 100 hours thereafter, or every 3 months.

TO CHECK OIL

The oil level should come to the dot in the middle of the sight glass (AA).

HOW TO CHANGE PUMP OIL

- Loosen pump oil fill plug (BB).
- Place a container under the pump oil drain plug (CC).
- Remove pump oil drain plug.
- 4. After oil is drained, replace pump oil drain plug. Tighten securely.
- 5. Refill pump using SIMPSON® Premium Pump Crankcase Oil. If this oil is not available, an SAE 15W-40 oil may be used.
- 6. Replace pump oil fill plug and tighten securely.

If there is a problem with the pump contact us at www.simpsoncleaning.com

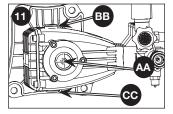
CONNECTIONS

Connections on pressure washer hoses, gun and spray wand should be cleaned regularly and lubricated with light oil or lithium grease to prevent leakage and damage to the o-rings.

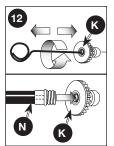
NOZZLE CLEANING (FIG. 12)

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 (K) from the spray wand. Remove any obstructions with the nozzle cleaning tool provided and backflush with clean water.
- 5. Direct water supply (N) into nozzle 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.
- 8. Start pressure washer and place spray wand into high pressure setting to test.



CLEAN THE WATER INLET FILTER (FIG. 7)

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

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

STORAGE

FNGINE

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

TO PREVENT FUEL-RELATED PROBLEMS

- Add Ethanol Shield™ fuel stabilizer following the manufacturer's instructions. When adding a gasoline stabilizer, fill the fuel tank with fresh gasoline. If only partially filled, air in the tank will promote fuel deterioration during storage. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline.
- After adding a gasoline stabilizer, run the engine outdoors for 10 minutes to be sure that treated gasoline has replaced the untreated gasoline in the carburetor.
- 3. Turn the fuel valve to the OFF position.
- 4. Continue to run the engine until it stops from the lack of fuel in the carburetor fuel bowl. Running time should be less than 3 minutes.

PUMP

The manufacturer recommends using SIMPSON® / POWERWASHER® Pump Guard or equivalent when storing the unit for more than 30 days and/or when freezing temperatures are expected. SIMPSON® / POWERWASHER® Pump Guard is environmentally friendly.

NOTE: Using pump guard helps provide proper lubrication to the internal seals of the pump regardless of temperature or environment.

NOTICE: Risk of property damage. Use only SIMPSON® / POWERWASHER® Pump Guard or equivalent. Other products could be corrosive and/or contain alcohol which may cause pump damage.

1. Turn off pressure washer and disconnect hoses from pump.

- 2. Unscrew bottle valve from Pump Guard bottle and remove seal.
- Screw bottle valve back onto bottle.
- 4. Attach bottle to water inlet of pump.
- 5. Squeeze bottle to inject contents into pump.
- With ignition switch off, simultaneously pull starter rope and squeeze bottle. Repeat until protector fluid exits pump outlet. NOTE: This step may require two people.

ACCESSORIES

⚠ DANGER: Risk of fluid injection. When using replacement spray wands or guns with this pressure washer, DO NOT use a spray wand and/or spray gun/ wand combination that is shorter in length than what was provided with this pressure washer as measured from the nozzle end of the wand to the gun trigger.

NOTICE: The use of any other accessory not recommended for use with this tool could be hazardous. Use only accessories rated equal to or greater than the rating of the pressure washer.

SPECIFICATIONS

High Pressure Hose 50 ft. (15.2 m)
Presure of Inlet Water 20–100 PSI

Inlet Water cold tap (100 °F max)

Soap Consumption Rate 10% max

In a continued commitment to improve quality, the manufacturer reserves the right to make component changes, design changes, or specification changes when necessary and without notice.

SERVICE INFORMATION

Do not return this product to your retailer. Please contact our customer service department at www.simpsoncleaning.com

^{*} Rated Pressure and Rated Water Flow is within manufacturing tolerance of (+/- 10%).

LIMITED WARRANTY

FNA Group (FNA) warrants to the original purchaser that the components described below covered under this warranty will be free from manufacturer's defects in material and workmanship from the date of purchase for the period of time indicated, provided the is operated and maintained in accordance with the Operator's Manual supplied with the.

90 DAY LIMITED WARRANTY ON PRODUCT COMPONENTS EXCLUDING PUMP, FRAME AND ENGINE

FNA warrants to the original retail purchaser that the and other components of the new covered under this limited warranty will be free from manufacturer's defects in material and workmanship for 90 days from the date of purchase, provided the is operated and maintained in accordance with the Operator's Manual. This 90 day limited warranty applies to these product components only.

TEN YEAR LIMITED WARRANTY ON FRAME

FNA warrants to the original retail purchaser that the frame of the new covered under this limited warranty will be free from manufacturer's defects in material and workmanship for ten year from the date of purchase, provided the is operated and maintained in accordance with the Operator's Manual. This ten year limited warranty applies to the frame only.

FIVE YEAR LIMITED WARRANTY ON PUMP

FNA warrants to the original retail purchaser that the frame of the new covered under this limited warranty will be free from manufacturer's defects in material and workmanship for five year from the date of purchase, provided the is operated and maintained in accordance with the Operator's Manual. This five year limited warranty applies to the pump only.

FNA's OBLIGATION

FNA will repair or replace, at FNA's option, parts or components covered by this limited warranty that an inspection by FNA discloses to have failed or become defective within the warranty period. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

EXCLUSIONS AND LIMITATIONS

The following items are not covered by this warranty:

- Merchandise sold as reconditioned, or floor or display models.
- Merchandise that has become damaged or inoperative because of ordinary wear, misuse, cold, heat, rain, excessive humidity, water quality, freeze damage, use of improper chemicals, negligence, accident, failure to operate the product in accordance with the instructions provided in the Operator's Manuals supplied with the product, improper maintenance, the use of accessories or attachments not recommended by FNA, or unauthorized repair or alterations.
- Repair and transportation costs of merchandise determined not be defective.
- Damage due chemical deterioration, scale build up, rust, corrosion or thermal expansion.
- 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 unusable after a reasonable period of use, including but not limited to springs, nozzles, o-rings, washers, and similar accessories.
- Merchandise sold by FNA 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.

IMPLIED OR STATUTORY WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

ANY INCIDENTIAL, INDIRECT OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE OR OTHER MALFUNCTION OF THE WATER PUMP, ENGINE OR ANY COMPONENT THEREOF IS NOT COVERED BY THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

TO OBTAIN WARRANTY SERVICE

The original purchaser must bring or ship the product or component(s) that failed to an FNA distribution or service center as soon as the problem exists. To obtain information about how to make a warranty claim, or to make arrangements for authorized repairs, please contact:

FNA Group 7152 99th Street, Pleasant Prairie, WI 53158 1-877-362-4271 cservice@fna-group.com

No warranty registration is necessary to obtain warranty service on FNA products. Save your proof of purchase receipt. If you do not provide proof of the original purchase date at the time warranty service is requested, the manufacturing date of the water pump will be used to determine when the warranty period began.

TROUBLE SHOOTING GUIDE

OPERATIONAL	POSSIBLE CAUSE	SOLUTION	
ISSUE			
Engine will not	No fuel	Add fresh fuel	
start (see Engine	Pressure builds up	Squeeze gun trigger to relieve	
Owner's Manual	after two pulls on	pressure	
for further engine	the recoil starter		
troubleshooting)	or after initial use		
	Choke lever in the	Move choke to the "Choke"	
	"No Choke" position	position	
	Spark plug wire	Attach spark plug wire	
	not attached		
No or low	Spray wand not	See How to Use Spray Wand	
pressure	in high pressure	instructions in the <i>Operation</i> Section	
(initial use)	Low water supply	Water supply must be at	
		least 5 gpm @ 20 PSI	
	Leak at high pressure	Repair leak. Apply sealant	
	hose fitting	tape if necessary	
	Nozzle obstructed	See Nozzle Cleaning instructions	
		in the <i>Maintenance</i> section	
	Water filter screen	Remove and clean filter. See	
	clogged	Cleaning Water Inlet Filter	
		paragraph in the <i>Maintenance</i>	
		section for the correct procedure	
	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-con-	
		nect water source to pump inlet	
		and turn on water source. Squeeze	
	Choke in the	trigger to remove remaining air Move choke to the "No Choke"	
	"Choke" position	position	
	High pressure	Use high pressure hose under	
	hose is too long	100 feet (30 m)	
Will not draw	Spray wand not	See How to Use Spray Wand	
chemicals	in low pressure	paragraph in the <i>Operation</i> Section	
Onomioaio	· ·		
	Chemical filter	Clean filter	
	Chemical screen not	Make sure and of datargent	
		Make sure end of detergent	
	in cleaning solution	siphon hose is fully submerged into cleaning solution	
	Chemical too thick	Dilute chemical. Chemical should	
	Chemical too trick		
	Pressure hose	be the same consistency as water	
		Lengthen water supply hose	
	is too long	instead of high pressure hose	

OPERATIONAL ISSUE	POSSIBLE CAUSE	SOLUTION	
Will not draw	Chemical build up	Please contact our customer service	
chemicals	in chemical injector	department at	
		www.simpsoncleaning.com	
No or low	Worn seal or packing	Please contact our customer service	
pressure		department at	
(after period of		www.simpsoncleaning.com	
normal use)	Worn or obstructed	Please contact our customer service	
	valves	department at	
		www.simpsoncleaning.com	
	Worn unloader piston	Please contact our customer service	
		department at	
		www.simpsoncleaning.com	
	Broken belts	Replace belts. Please contact our	
		customer service department at	
		www.simpsoncleaning.com	
Water leaking at	Worn or torn o-ring	Check and replace	
gun/spray wand	Loose hose	Tighten	
connection	connection		
Water leaking	Loose connections	Tighten	
at pump	Piston packings worn	Please contact our customer service	
		department at	
		www.simpsoncleaning.com	
	Worn or torn o-ring	Please contact our customer service	
		department at	
Pump head or		www.simpsoncleaning.com	
		Please contact our customer service	
	tubes damaged	department at	
	from freezing	www.simpsoncleaning.com	
Pump pulsates	Nozzle obstructed	See Nozzle Cleaning paragraph	
		in the <i>Maintenance</i> section	
		for the correct procedure	
Oil leaking	Oil seals worn	Please contact our customer service	
at pump	Oli Scals Worli	department at	
at parrip		www.simpsoncleaning.com	
	Loose drain plug	Tighten	
	1	Check and replace	
	o-ring 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 prob-	
	A . (1) . (1)	lem persists, replace plug	
	Air filter filled with oil	Clean and/or replace filter	
		element. Refer to Engine Owner's	
	<u> </u>	Manual for correct procedure.	





FNA Group, Inc. 7152 99th Street Pleasant Prairie, WI 53158

Internet Address: www.simpsoncleaning.com
Warranty Registration via Internet

Adresse Internet : www.simpsoncleaning.com Enregistrement de la garantie par Internet

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