



# INDUSTRIAL TRIPLEX PUMPS

## INSTRUCTION MANUAL

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

Contact AAA's Customer Service Department at **1-877-362-4271**

**SAVE THIS MANUAL FOR FUTURE REFERENCE**

7110989 - Rev C - 1/2024

# INDUSTRIAL TRIPLEX PUMPS

## GENERAL SAFETY INFORMATION

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.



### **⚠ DANGER: RISK OF INJURY FROM SPRAY**

Always wear safety glasses or goggles and appropriate clothing.



### **⚠ WARNING: RISK OF BURSTING**

- The pump is designed to pump non-flammable or non-explosive fluids. These pumps are intended to pump clean filtered water only.
- Do not operate in or around an explosive environment.
- Do not alter the pump from the manufacturers design.
- Do not operate gasoline engines in a confined area; always have adequate ventilation.
- Do not exceed the pump specifications in speed or pressure.



### **⚠ WARNING: RISK OF HOT SURFACES**

- Do not allow children to operate the pump.
- Never point the high-pressure discharge at a person, any part of the body or animals.
- Maximum water temperature is 100 °F.

**⚠WARNING:** This product and its exhaust can expose you to chemicals including lead and lead compounds, and carbon monoxide, which are known to the State of California to cause cancer

and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠ WARNING:** Adequate protective guards must cover all moving parts. Perform routine maintenance on the pump and components.

**⚠ WARNING:** Use only components that are rated for the flow and pressure of the pump, this would include hose, fittings, safety valves, spray guns etc.

## DESCRIPTION

Designed to work at 3400 RPM when coupled to a gasoline engine. The 1" (25.4 mm) hollow shaft and universal mounting flange provides connection to most 1" (25.4 mm) shaft, horizontal engines.

## SPECIFICATIONS

**Oil Capacity:** 12.4 oz. (365 ml)

### Ports

- **Inlet Port (Supplied):** Standard garden hose connection with inlet strainer.
- **Discharge Port (Supplied):** Quick Connect connection.

**Thermal Relief Valve (Supplied):** 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 (Supplied):** Mixes cleaners or cleaning solvents with the water to improve cleaning effectiveness.

**NOTICE:** Allowing the unit to run for more than two minutes without the gun trigger being pulled could cause overheating and damage to the pump. Do not let the pressure washer run

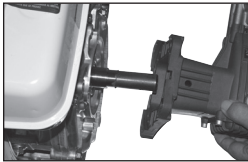
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for more than two minutes in Bypass Mode. Turn off the engine and relieve the pressure in the gun during these extended situations.

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

## INSTALLATION

1. Install the shaft key into the key way and apply a light coating of anti-seize on the engine shaft and key.
2. Align the two key ways and push the pump completely onto the engine.



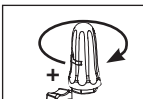
3. Install all four (4) bolts and tighten evenly. Torque to 14–17 ft-lbs.

## PRESSURE ADJUSTMENTS

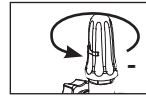
The pressure setting is preset at the factory to achieve optimum pressure and cleaning.

This pressure washer's high pressure pump is equipped with an adjustable unloader 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 try to turn pressure regulator knob past the built-in stop or damage to the pump will result.

**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.

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

## HOW TO APPLY CHEMICALS/ 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 or other caustic chemicals.**

### To Apply Chemicals:

1. Ensure detergent siphon hose is attached to barbed fitting location near high pressure hose connection of pump as shown.
2. 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. Place the spray wand in the low pressure or siphon setting.

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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 spray wand is not in the low pressure/siphon setting.

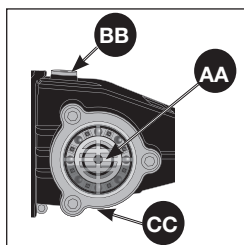
## MAINTENANCE

**⚠ 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.*

**NOTE:** The Pump was filled with oil at the factory. The preferred oil is SIMPSON® Premium Pump Crankcase Oil (part #80138). 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

1. Loosen pump oil fill plug (BB).
2. Place a container under the pump oil drain plug (CC).

3. 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.

## 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.
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

The manufacturer recommends using SIMPSON® / POWERWASHER® Pump Guard (part #80130) 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.

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1. Turn off pressure washer and disconnect hoses from pump.
2. Unscrew bottle valve from Pump Guard bottle and remove seal.
3. Screw bottle valve back onto bottle.
4. Attach bottle to water inlet of pump.
5. Squeeze bottle to inject contents into pump.
6. 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.

## LIMITED WARRANTY

The manufacturer of this product agrees to repair or replace designated parts that prove defective within the warranty period listed below at the manufacturer's sole discretion. Specific limitations/extensions and exclusions apply.

This warranty covers defects in material and workmanship and not parts failure due to normal wear, depreciation, abuse, accidental damage, negligence, improper use, maintenance, water quality or storage. To make a claim under the terms of the warranty, all parts said to be defective must be retained and available for return upon request to a designated Warranty Service Center for warranty inspection. The judgments and decisions of the manufacturer concerning the validity of warranty claims are final.

These warranties pass through to the end user and are non-transferable. As a factory authorized and trained Warranty Service Center, the factory will honor the terms of all component warranties and satisfy claims of the appropriate warranty provisions.

Normal wear items include, but are not limited to, valves and seals, which are not covered by this warranty.

This warranty replaces all other warranties, express or implied, including without limitation any warranties of merchantability or fitness for a particular purpose and all such warranties are hereby disclaimed and excluded by the manufacturer. The manufacturer's warranty obligation is limited to repair and replacement of defective products as provided herein and the manufacturer shall not be liable for any further loss, damages, or expenses – including damages from shipping, accident, abuse, acts of God, misuse, or neglect. Neither is damage from repairs using parts not purchased from the manufacturer or alterations performed by non-factory authorized personnel. Failure to install and operate equipment according to the guidelines put forth in the instruction manual shall void warranty.

## THIS WARRANTY DOES NOT COVER THE FOLLOWING

Machines used for rental purposes, damage resulting from shipping (claims must be filed with freighter), accident, abuse, act of God, misuse, or neglect. Neither is damage from repairs or alterations performed by non-factory authorized personnel or failure to install and operate equipment according to the guidelines put forth in the instruction manual.

The manufacturer will not be liable to any persons for consequential damage, for personal injury, or for commercial loss.

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## RESPONSIBILITY OF ORIGINAL PURCHASER (INITIAL USER):

- To process a warranty claim, report the concern to **1-877-362-4271** or **cservice@fna-group.com** for authorization and direction to the nearest authorized service centre in your area.
- 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).

## WARRANTY DOES NOT APPLY TO FAILURES DUE TO:

- Freight damage
- Damage due to chemical deterioration, scale build up, rust, corrosion or thermal expansion
- Freeze damage
- Damage caused by parts or accessories not obtained from an authorized dealer or not approved by the manufacturer.
- Normal wear of moving parts or components affected by moving parts.

## HIGH PRESSURE PUMP (DEFECTS IN MATERIAL AND WORKMANSHIP)

AAA™ - Five (5) years from date of purchase

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## TROUBLESHOOTING GUIDE

Symptom	Possible Cause(s)	Corrective Action
Oil leak between crankcase and pumping section	Worn rod oil seals	Replace crankcase piston rod seals
Frequent or premature failure of the packing)	Cracked, damaged or worn plunger	Replace plungers
	Overpressure to inlet manifold	Reduce inlet pressure
	Material in the fluid being pumped	Install proper filtration on pump inlet plumbing
	Excessive pressure and/or temperature of fluid being pumped	Check pressures and fluid inlet temperature; be sure they are within specified range
Pump loses prime, chattering noise, pressure fluctuates	Running pump dry	Do not run pump without water
	Air leak in suction hose or inlet	Remove suction line and inspect it for a loose liner or debris lodged in hose. Avoid all unnecessary bends. Do not kink hose
Low pressure at nozzle	Clogged suction strainer	Clean strainer
	Unloader valve is by-passing	Make sure unloader is adjusted properly and by-pass seat is not leaking
	Incorrect or worn nozzle	Make sure nozzle is matched to the flow and pressure of the pump. If the nozzle is worn, replace
Pressure gauge fluctuates	Worn packing or valves	Replace packing or valves
	Valves worn or blocked by foreign bodies	Clean or replace valves
Low pressure	Packing worn	Replace packing
	Worn nozzle	Replace with nozzle of proper size
	Low engine RPM	Increase engine RPM to 3400
	Air leak in inlet plumbing	Disassemble, reseal and reassemble



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Customer Service Department: **1-877-362-4271.**  
Département de service clients : **1-877-362-4271.**  
Departamento de Servicio al Cliente: **1-877-362-4271.**

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