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› YAMATIC Horizontal Triplex Plunger Pressure Washer Pump 1" Shaft 4000 PSI 3.5 GPM Instruction Manual

YAMATIC 4000 PSI 3.5GPM

YAMATIC Horizontal Triplex Plunger Pressure Washer Pump

Model: 4000 PSI 3.5 GPM (1" Shaft)

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, installation, and maintenance of your YAMATIC Horizontal Triplex Plunger Pressure Washer Pump. Please read this manual thoroughly before use and retain it for future reference. This pump is designed for industrial gas-powered pressure washers requiring a 1-inch shaft, delivering 4000 PSI and 3.5 GPM.

SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Read and understand all instructions before operating the pump.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation, operation, and maintenance.
- Ensure the pressure washer engine is off and cooled before performing any maintenance or installation.
- This pump is designed for clean, filtered cold water only. Do not use with hot water or corrosive liquids.
- Operate the pressure washer in a well-ventilated area to avoid carbon monoxide poisoning from the engine exhaust.
- Keep children and pets away from the operating area.
- Always relieve pressure in the system before disconnecting hoses or performing service.

PRODUCT OVERVIEW AND COMPONENTS

The YAMATIC Horizontal Triplex Plunger Pump is engineered for durability and high performance. Key components are designed for efficient pressure washing tasks.



Figure 1: YAMATIC Horizontal Triplex Plunger Pressure Washer Pump and included accessories.

The pump assembly includes the main pump body, an adjustable unloader valve, oil inlet, and connections for pressure washer hose and garden hose. Accessories typically include a chemical hose, various spray nozzle tips, mounting bolts, and an air breath valve.

PREMIUM & DURABLE STRUCTURE

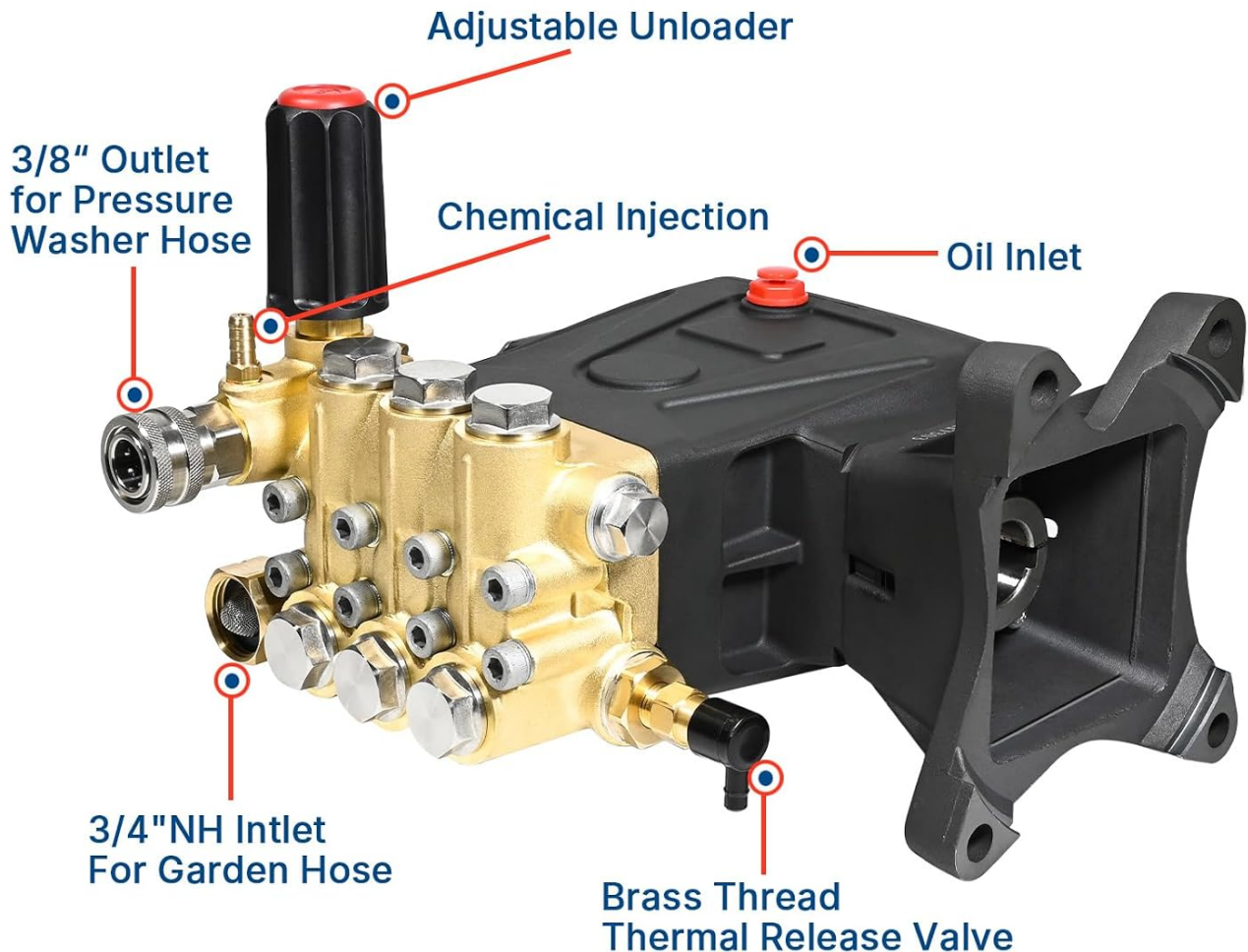


Figure 2: Detailed view of pump components, including the adjustable unloader, chemical injection port, oil inlet, 3/8" outlet, 3/4" NH inlet, and brass thread thermal release valve.

SPECIFICATIONS

Feature	Specification
Max Pressure	4000 PSI / 280 Bar
Max Flow Rate	3.5 Gallons Per Minute (GPM)
Pump Type	Triplex Plunger
Manifold Material	Forged Brass
Crankcase Material	Aluminum Alloy
Bearing Type	Double Bearing
Self Suction	No

Feature	Specification
Rated RPM	3400
Engine Type Compatibility	Horizontal (8-15 HP)
Shaft Size	1 inch (27mm)
Inlet Connector	3/4" NH Garden Hose
Outlet Connector	3/8" Socket (Quick Connect)
Item Weight	22.4 pounds
Package Dimensions	14.29 x 12.91 x 9.29 inches

Setup

1. Mounting the Pump

Ensure your pressure washer engine has a 1-inch horizontal shaft. Refer to the mounting dimensions to confirm compatibility and proper alignment.

1" HORIZONTAL MOUNTING DIMENSION

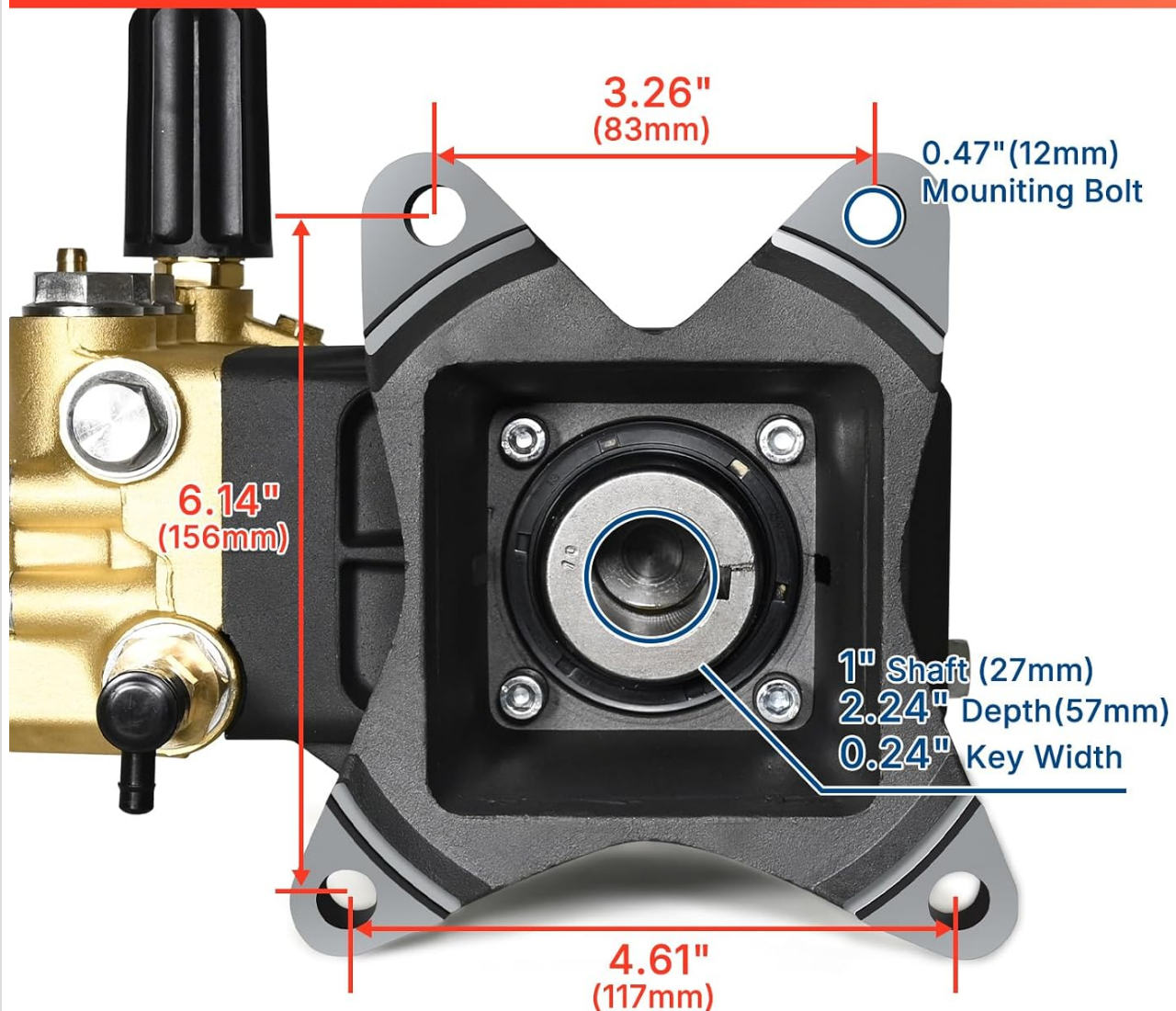


Figure 3: Horizontal mounting dimensions, including shaft depth (2.24"), key width (0.24"), and bolt spacing.

Secure the pump to the engine using the provided hardened bolts and washers. Apply anti-seize compound to bolts for easier future removal.

2. Installing the Unloader Valve

The unloader valve regulates pressure. Install it onto the designated port on the pump manifold.

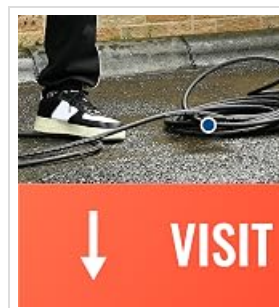


Figure 4: Insert the unloader valve into the pump port. Figure 5: Securely tighten the unloader valve.

3. Replacing the Breathing Valve

Replace the red shipping plug with the yellow air breath valve for proper pump ventilation during operation.

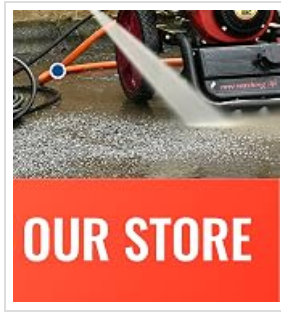


Figure 6: Remove the red shipping plug from the oil inlet. Figure 7: Install the yellow air breath valve.

4. Connecting Hoses

- Connect a standard 3/4" NH garden hose to the pump's inlet. Ensure the water supply is clean and free of debris.
- Connect your pressure washer hose to the 3/8" quick-connect outlet.
- If using chemical injection, connect the provided chemical hose to the designated port.

OPERATING INSTRUCTIONS

1. Priming the Pump

Before starting the engine, ensure the water supply is turned on and water flows through the pump and out of the pressure washer gun to remove any air. This prevents damage to the pump.

2. Starting the Engine

Follow your pressure washer engine's manufacturer instructions for starting. Once the engine is running, the pump will begin to pressurize the water.

3. Adjusting Pressure

The pump features an adjustable unloader valve to control the output pressure. Rotate the knob to increase or decrease pressure as needed for your cleaning task.

ADJUSTABLE PRESSURE

2800 PSI  Max 4000 PSI

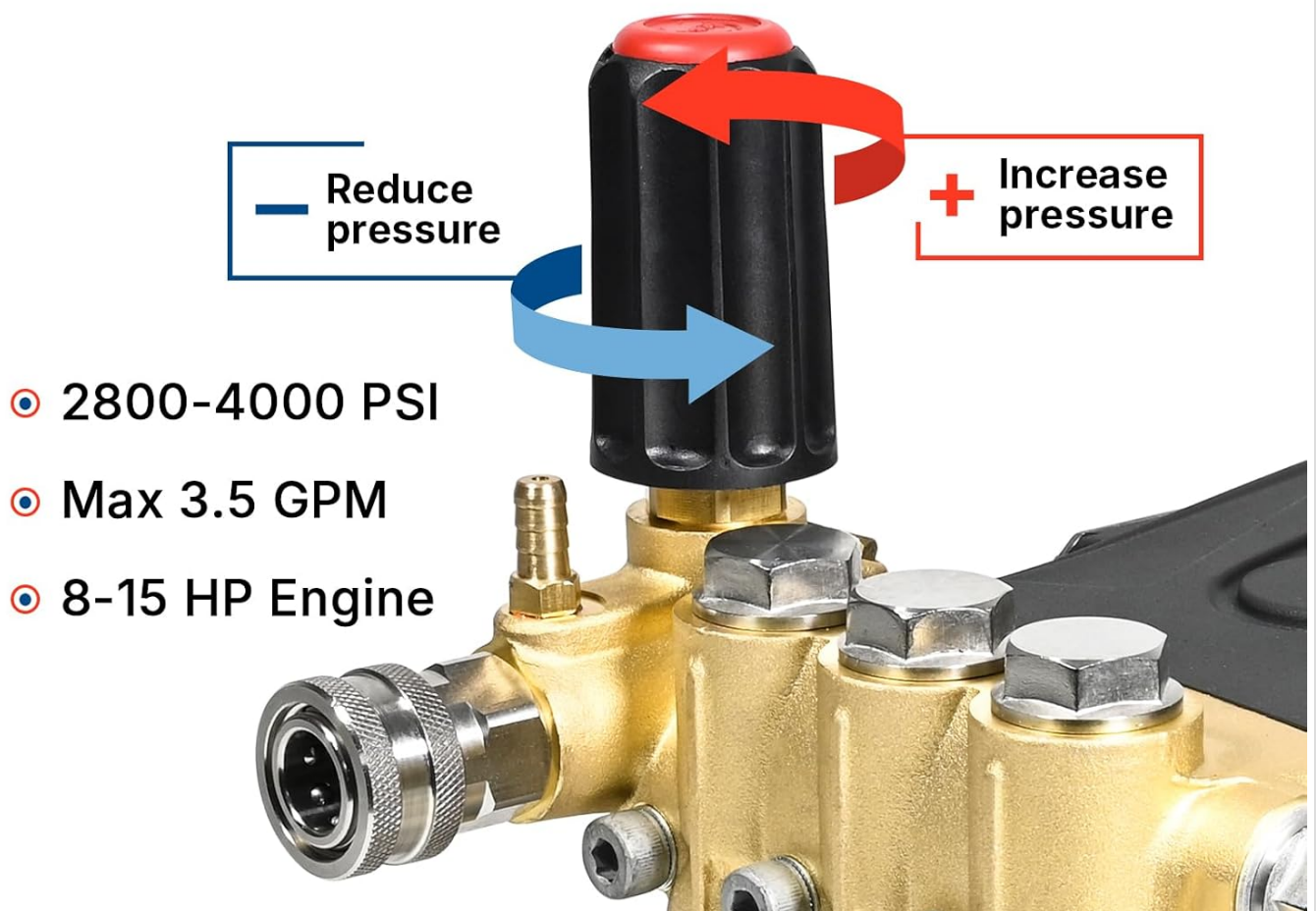


Figure 8: Turn the red and black knob clockwise to increase pressure (up to 4000 PSI) and counter-clockwise to reduce pressure (down to 2800 PSI).

4. Using Nozzle Tips

Select the appropriate nozzle tip for your cleaning application. Different colored tips provide varying spray patterns and pressures. Always ensure the nozzle is securely attached before operating.

MAINTENANCE

1. Oil Level Monitoring

The pump is equipped with a visual oil level monitoring window. Regularly check the oil level to ensure it is within the recommended range. The pump is pre-sealed with oil from the factory.

OIL LEVEL OBSERVABLE

Oil Change Inlet



PRE-SEALED



Oil level Monitor

Figure 9: The clear window allows for easy observation of the oil level and condition.

2. Oil Change

Use SAE 15W-40 engine oil for the pump. Change the oil every 50 hours of running time to ensure optimal performance and longevity.

9~15HP **Pre-filled Oil** **500 Hrs** **Soap Hose**

Tips:

- These pumps are designed for clean, filtered cold water only.
- Always wear safety glasses and proper clothing.
- Avoid running gas engines in closed spaces, ensure good airflow.
- Do not allow children to operate the pump.
- Always read the manual before installing the pump.

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Figure 10: Instructions for adding SAE 15W-40 oil and recommended change interval.

3. General Care

- After each use, flush the pump with clean water to remove any chemical residues.
- Store the pump in a dry, frost-free environment. Use pump protector/antifreeze if storing in cold conditions.
- Regularly inspect hoses and connections for wear or leaks. Replace damaged components immediately.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No pressure or low pressure	• Insufficient water supply • Air in the pump • Clogged nozzle • Worn seals/valves	• Check water source and flow • Prime the pump thoroughly • Clean or replace nozzle • Contact service for seal/valve inspection
Water leaks from pump	• Loose connections • Damaged O-rings or seals • Cracked housing	• Tighten all connections • Inspect and replace O-rings/seals • Contact service for housing inspection
Pump making unusual noise	• Low oil level • Air in the system • Internal component wear	• Check and add oil • Ensure pump is properly primed • Contact service for internal inspection

COMPATIBILITY

This YAMATIC pump is designed as a replacement for various pressure washer models with a 1-inch shaft. Compatible models include, but are not limited to:

- **Simpson:** 90034, 90039, 90038, 41114, 41096, 41115, 41113, 41028, 41030, 41032, 41034
- **Honda:** GX340, GX390, GX270 (Only for 1" shaft pressure washer pumps)

- **AR:** RSV4G40-PKG, RSV4G40HD-F40EZ, RG 2125HN, RG 1528HN, SLPHP4040-402
- **General Pump:** TS2021, EZ4040G, EZ4040, WS202
- **Others:** COMET RW 4040 S, Mi-T-M 3-0308

If you are unsure about compatibility, please consult the manufacturer or your product supplier.

WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact YAMATIC Power Center directly. Refer to your purchase documentation or the YAMATIC website for specific warranty terms and contact details.

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