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Allparts Equipment & Accessories 16368

Instruction Manual

Allparts Equipment & Accessories Simpson OEM Technologies 16368 Horizontal Axial Cam Pressure Washer Pump Kit

Model: 16368

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Allparts Equipment & Accessories Simpson OEM Technologies 16368 Horizontal Axial Cam Pressure Washer Pump Kit. This replacement pump is designed for pressure washers requiring a 2.5 GPM flow rate and up to 3400 PSI burst pressure, featuring a 3/4-inch shaft.
Please read this manual thoroughly before attempting to install or operate the pump. Retain this manual for future reference.

2. Safety Information

Warning: Pressure washers and their components can cause serious injury if not handled properly. Always follow these safety guidelines:

- Always wear appropriate personal protective equipment (PPE), including eye protection, gloves, and hearing protection, when working with pressure washer equipment.
- Ensure the pressure washer engine is turned off and cooled down before performing any installation, maintenance, or inspection.
- Disconnect the spark plug wire to prevent accidental starting of the engine.
- Relieve all pressure in the system before disconnecting hoses or performing any service.
- Never point the spray gun at people, animals, or electrical devices.
- Use only genuine replacement parts or parts approved by the manufacturer.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. Package Contents

Your Simpson OEM Technologies 16368 Pump Kit includes the following items:

- Horizontal Axial Cam Pressure Washer Pump
- Siphon Tube
- Mounting Hardware (bolts, washers)



Figure 1: The Simpson OEM Technologies 16368 pump kit, showing the main pump unit, siphon tube, and mounting hardware.

4. Installation

Important: Before proceeding with installation, verify that your pressure washer requires a pump with a 3/4-inch horizontal shaft and a standard SAE bolt pattern. Refer to your pressure washer's manual for compatibility.

1. **Prepare the Pressure Washer:** Ensure the pressure washer engine is off, cooled, and the spark plug wire is disconnected. Relieve any residual pressure in the system.
2. **Remove Old Pump (if applicable):** Disconnect all hoses and fittings from the old pump. Remove the mounting bolts securing the old pump to the engine. Carefully slide the old pump off the engine shaft.
3. **Inspect Engine Shaft:** Clean the engine shaft thoroughly. Ensure it is free of rust, dirt, or debris.
4. **Install New Pump:** Align the new 16368 pump with the engine shaft. The pump features a multi-fit gas engine flange and a hollow shaft designed for most horizontal 3/4-inch shaft engines. Carefully slide the pump onto the shaft until the standard SAE bolt pattern aligns with the engine's mounting holes.



Figure 2: The pump's mounting base, illustrating the standard SAE bolt pattern for secure attachment to the engine.

5. **Secure the Pump:** Insert the provided mounting bolts through the pump's flange and into the engine's mounting holes. Tighten the bolts securely, ensuring the pump is firmly attached to the engine.
6. **Connect Hoses:** Reconnect the garden hose inlet (3/4" Garden Hose Inlet) and the high-pressure outlet (M22 High-Pressure Outlet) to the pump. Ensure all connections are tight to prevent leaks.

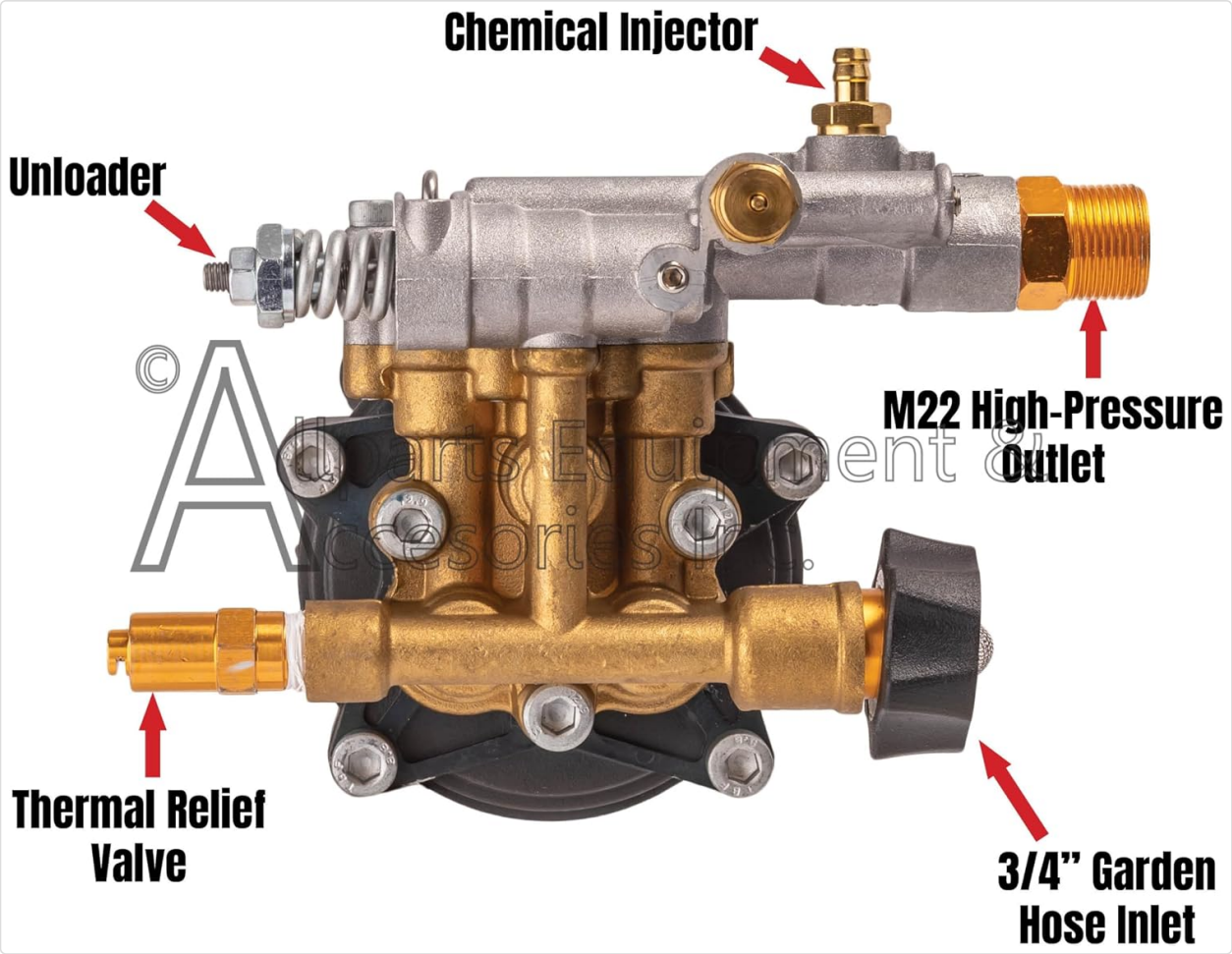


Figure 3: Key components of the pump, including the 3/4" Garden Hose Inlet, M22 High-Pressure Outlet, Chemical Injector, Unloader, and Thermal Relief Valve.

7. **Install Siphon Tube:** Connect the siphon tube to the chemical injector port if you plan to use detergents.

5. Operation

Once the pump is correctly installed and all connections are secure, you can operate your pressure washer according to its original instruction manual. The 16368 pump is designed to deliver up to 3400 PSI burst pressure at 2.5 GPM, suitable for various cleaning tasks.

- **High Pressure Output:** This pump provides significant cleaning power for tough jobs like paint removal, stubborn dirt, and heavy grime.
- **Chemical Injection:** Utilize the integrated chemical injector for applying detergents or cleaning solutions. Ensure the siphon tube is properly connected and immersed in the cleaning solution.
- **Thermal Relief Protection:** The pump is equipped with thermal relief protection to prevent overheating and damage during prolonged use or when the trigger gun is closed for extended periods.
- **Preset Unloader:** The pump features a preset unloader for consistent pressure regulation.



Figure 4: Detailed views highlighting the pump's brass manifold, thermal relief protection, maintenance-free crankcase, and standard SAE bolt pattern.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your pressure washer pump.

- **Crankcase:** The 16368 pump features a maintenance-free crankcase, meaning you do not need to change the oil. This design simplifies upkeep.
- **Corrosion Resistance:** The pump is constructed from anodized die-cast aluminum, providing protection against corrosion.
- **Storage:** Before storing the pressure washer for extended periods, especially in freezing temperatures, ensure the pump is protected with a pump saver solution to prevent damage.
- **Regular Inspection:** Periodically inspect all hoses, fittings, and connections for wear, damage, or leaks. Replace any damaged components immediately.
- **Clean Inlet Filter:** Regularly check and clean the inlet filter on the garden hose connection to prevent debris from entering the pump.

7. Troubleshooting

This section addresses common issues you might encounter with your pressure washer pump.

- **No Pressure or Low Pressure:**
  - Check water supply: Ensure the garden hose is fully open and free of kinks.
  - Inspect inlet filter: A clogged filter can restrict water flow. Clean or replace if necessary.
  - Check for air in the pump: Run water through the pump with the engine off and the spray gun trigger open until a steady stream of water emerges, then start the engine.
  - Examine hoses and connections: Look for leaks or loose fittings.
- **Pump Leaking:**
  - Tighten connections: Ensure all hose and fitting connections are secure.
  - Inspect O-rings and seals: Worn or damaged O-rings and seals can cause leaks. Replace as needed.
- **Engine Stalls or Runs Rough:**
  - This may indicate an issue with the unloader valve or a restriction in the high-pressure line. Consult a qualified technician if the problem persists after checking basic connections.

For issues not covered here, or if troubleshooting steps do not resolve the problem, contact customer support.

8. Specifications

Feature	Specification
Model Number	16368
Brand	Allparts Equipment & Accessories
Manufacturer	OEM Technologies Simpson by FNA Group
Maximum Pressure	3400 PSI (burst)
Maximum Flow Rate	2.5 Gallons Per Minute (GPM)
Shaft Size	3/4 inch (hollow)
Pump Type	Horizontal Axial Cam
Crankcase	Maintenance-Free
Material	Anodized Die-Cast Aluminum (corrosion resistant)
Item Weight	8 Pounds
Product Dimensions	8.5"L x 8"W x 8.5"H
Color	Gray

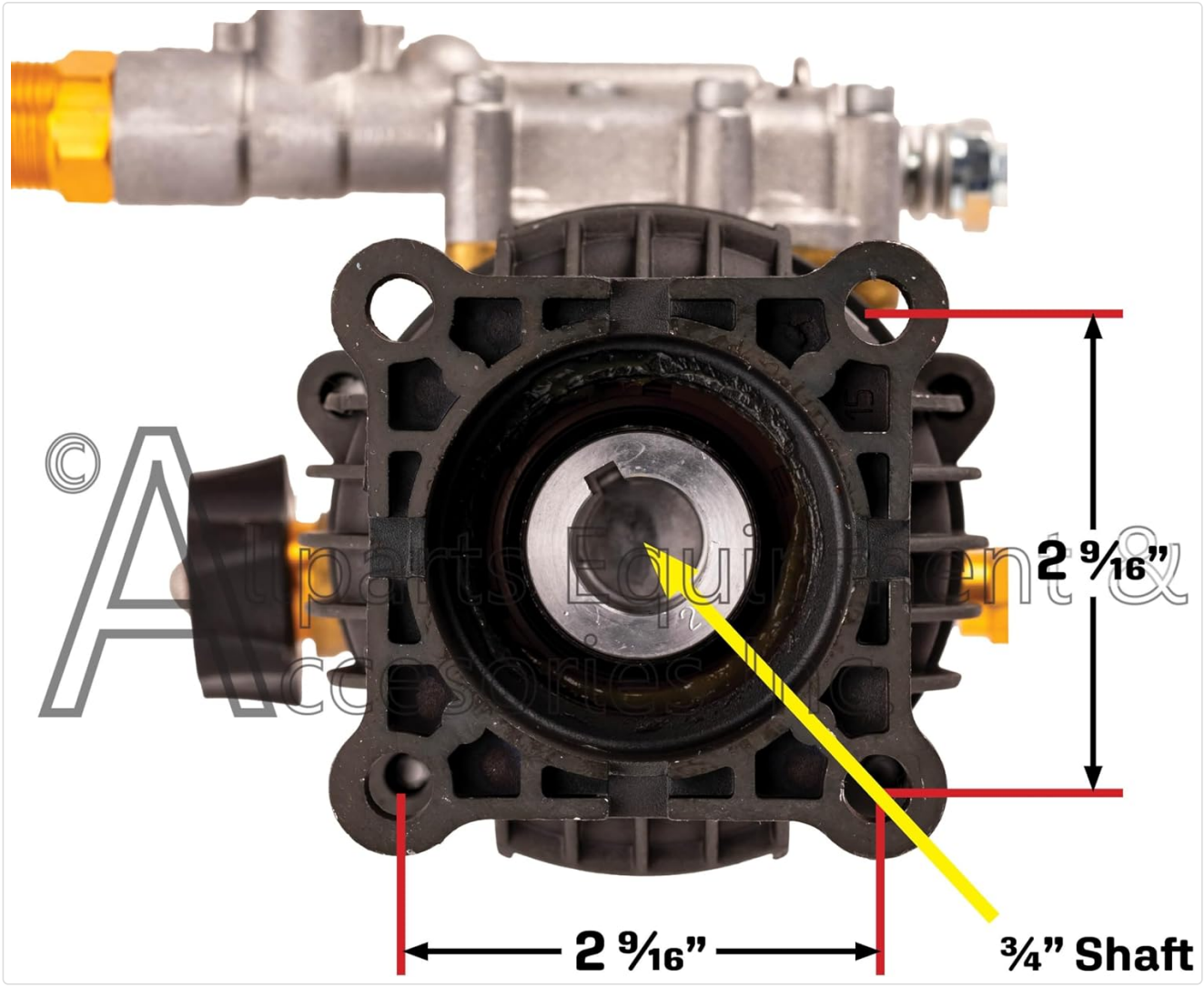


Figure 5: Bottom view of the pump illustrating the 3/4-inch shaft and mounting dimensions.

9. Support & Warranty

Allparts Equipment & Accessories is committed to delivering superior products and support. For technical assistance or any questions regarding your 16368 pump kit, please contact our USA-based technical support team. Refer to your purchase documentation or the Allparts Equipment & Accessories website for contact information.

Warranty information is typically provided with the product at the time of purchase. Please retain your proof of purchase for any warranty claims.

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