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› Hourleey 3/4" Shaft Horizontal Pressure Washer Axial Pump (3400 PSI, 2.5 GPM) User Manual

Hourleey Axial Pump

Hourleey 3/4" Shaft Horizontal Pressure Washer Axial Pump User Manual

Model: Axial Pump (B0CR2MPWQ7)

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Hourleey 3/4" Shaft Horizontal Pressure Washer Axial Pump. This replacement pump is designed for gas-powered pressure washers capable of delivering 3400 PSI and 2.5 GPM. Please read this manual thoroughly before use and retain it for future reference.



Image 1: Hourleey 3/4" Shaft Horizontal Pressure Washer Axial Pump. This image displays the overall design of the pump, highlighting its compact and robust construction.

2. SAFETY INFORMATION

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

- **Read all instructions:** Before operating the pressure washer with the new pump, ensure you have read and understood all instructions in this manual and the pressure washer's original manual.
- **Eye and hearing protection:** Always wear appropriate eye protection (safety glasses or goggles) and hearing protection when operating a pressure washer.
- **Proper footwear:** Wear non-slip, closed-toe footwear to protect your feet and maintain stability.
- **Keep clear:** Ensure the operating area is clear of people, pets, and obstacles. High-pressure spray can cause serious injury.
- **Electrical safety:** If your pressure washer has electrical components, ensure all connections are dry and secure. Never

operate in standing water.

- **Fuel safety:** For gas-powered units, refuel in a well-ventilated area with the engine off and cool. Avoid spills.
- **Chemical handling:** When using detergents, follow the manufacturer's instructions and wear appropriate protective gear.
- **Thermal relief valve:** The pump is equipped with a thermal relief valve to prevent overheating. Do not bypass or tamper with this safety feature.

3. PRODUCT COMPONENTS AND FEATURES

Your Hourleey Axial Pump includes several key components designed for performance and durability.

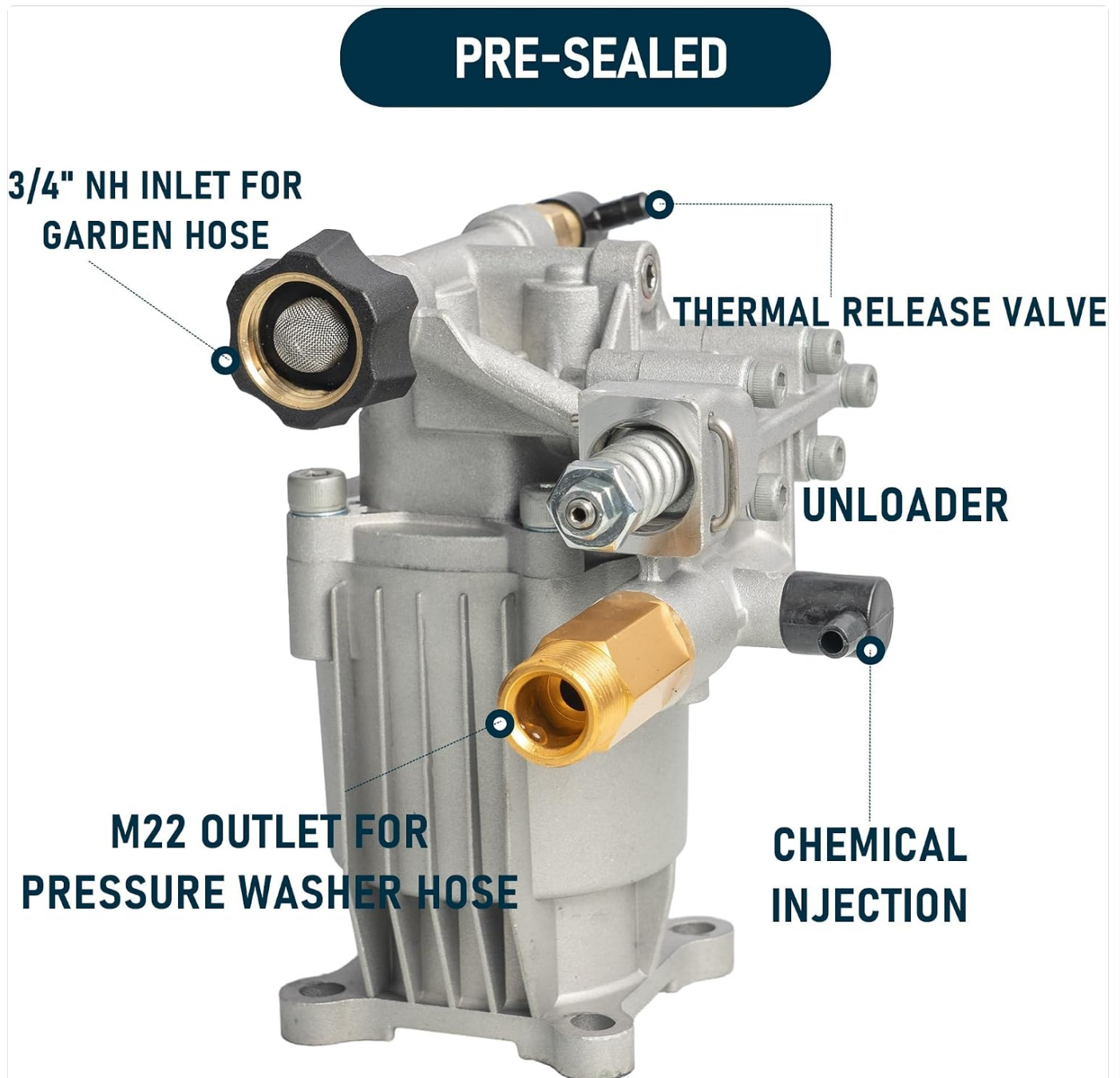


Image 2: Key components of the Hourleey Axial Pump. This image highlights the 3/4" NH inlet for garden hoses, the M22 outlet for pressure washer hoses, the thermal release valve, the unloader mechanism, and the chemical injection port.

- **3/4" NH Garden Hose Inlet:** Standard connection for water supply.
- **M22 High-Pressure Hose Outlet:** Standard threaded connection for the pressure washer hose.

- **Thermal Release Valve:** Protects the pump from overheating when in bypass mode.
- **Unloader:** Regulates pressure and allows water to bypass when the trigger is released.
- **Chemical Injection Port:** For drawing cleaning solutions into the low-pressure stream.
- **Maintenance-Free Crankcase:** Pre-filled with oil and designed for no periodic oil changes.
- **Double Seal System:** Prevents oil and water leaks.

4. SPECIFICATIONS

Specification	Value
Brand	Hourleey
Power Source Compatibility	Gas Powered
Maximum Pressure	3400 PSI
Maximum Flow Rate	2.5 GPM
Shaft Type	3/4" Horizontal Shaft
Inlet Connection	3/4" NH Garden Hose
Outlet Connection	M22 Threaded High-Pressure Hose
Item Weight	3.22 kg (7.1 lbs)
Color	Silver



130 HOURS RUNNING TIME

POWERFUL HORIZONTAL PRESSURE WASHER PUMP

3400 PSI
MAX PRESSURE

2.5 GPM
MAX FLOW

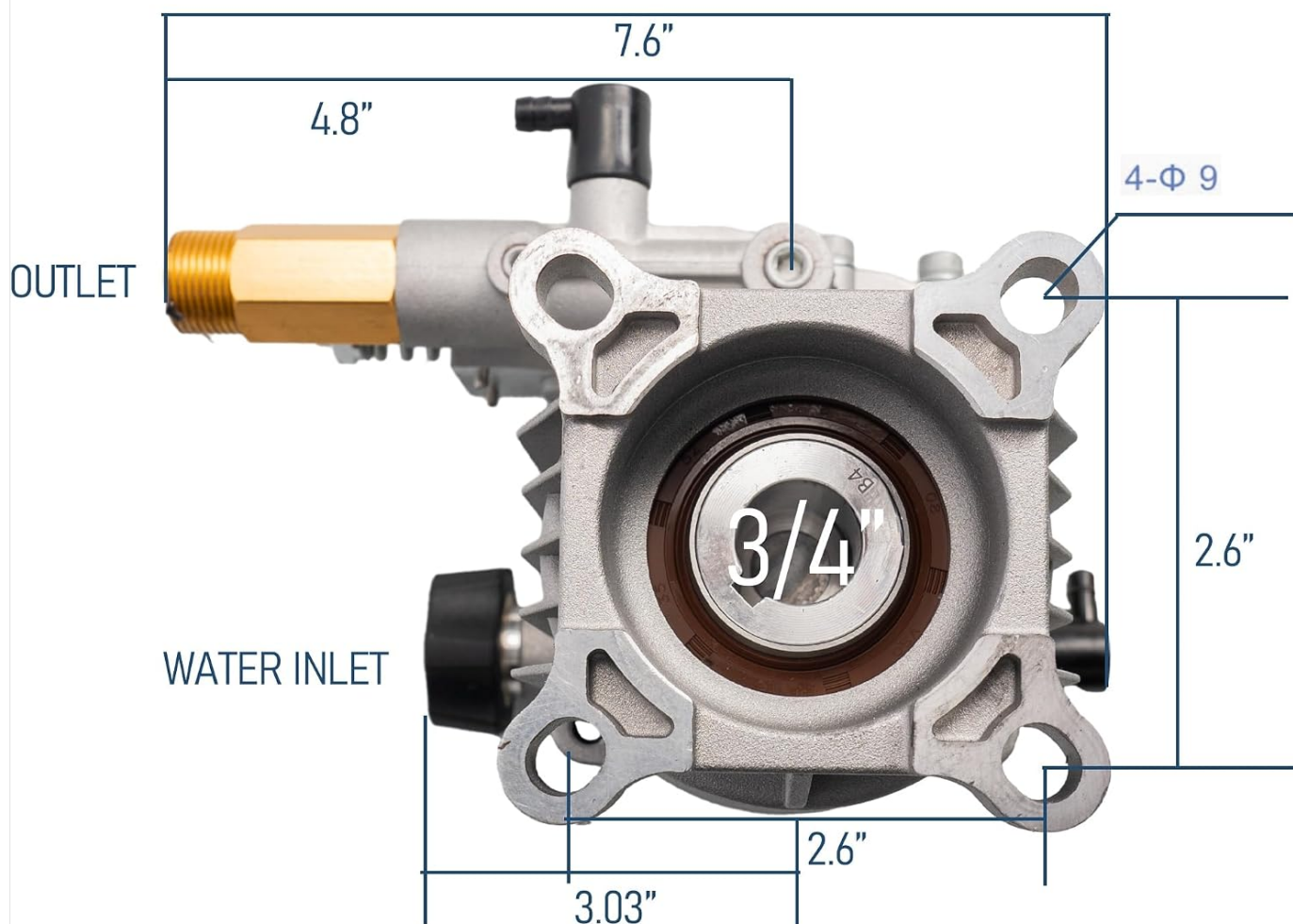
Image 3: Performance metrics of the Hourleey Axial Pump, indicating a maximum pressure of 3400 PSI and a maximum flow rate of 2.5 GPM.

5. SETUP AND INSTALLATION

This pump is designed for easy installation. Ensure your pressure washer has a 3/4" horizontal shaft engine with 6.5-7 HP horsepower for proper compatibility.

STANDARD SAE BOLT PATTERN

HIGH ADAPTABILITY AND EASY INSTALLATION



PLEASE MAKE SURE YOUR PRESSURE WASHER HAS A $3/4"$ SHAFT HORIZONTAL ENGINE WITH 6.5-7 HP HORSEPOWER

Image 4: Diagram showing the standard SAE bolt pattern and critical dimensions (7.6", 4.8", 2.6", 3.03") for the pump, along with the $3/4"$ shaft requirement. This helps ensure proper fitment.



Image 5: A close-up view of the 3/4" horizontal shaft, illustrating the keyway and threaded end for secure pump attachment.

Installation Steps:

1. **Prepare the Pressure Washer:** Disconnect the spark plug wire to prevent accidental starting. Drain any remaining fuel and water from the old pump and engine.
2. **Remove Old Pump:** Carefully unbolt and remove the existing pump from your pressure washer engine. Note the orientation and any shims or spacers.
3. **Inspect Shaft:** Clean the engine's output shaft thoroughly. Ensure it is free of rust, debris, or damage.
4. **Install Key:** Insert the provided shaft key into the keyway on the engine's shaft.
5. **Mount New Pump:** Align the Hourleey pump with the engine shaft, ensuring the keyway on the pump slides onto the shaft key. Gently push the pump onto the shaft until it seats against the engine.
6. **Secure Bolts:** Use the provided 4 bolts (UNF5/16-24 x 1), D8 flat pads, and D8 spring washers to secure the pump to the engine. Tighten bolts evenly and securely.
7. **Connect Hoses:** Connect your garden hose to the 3/4" NH inlet and your high-pressure hose to the M22 outlet. Ensure all

connections are tight to prevent leaks.

8. **Detergent Hose:** If using, connect the detergent hose to the chemical injection port.

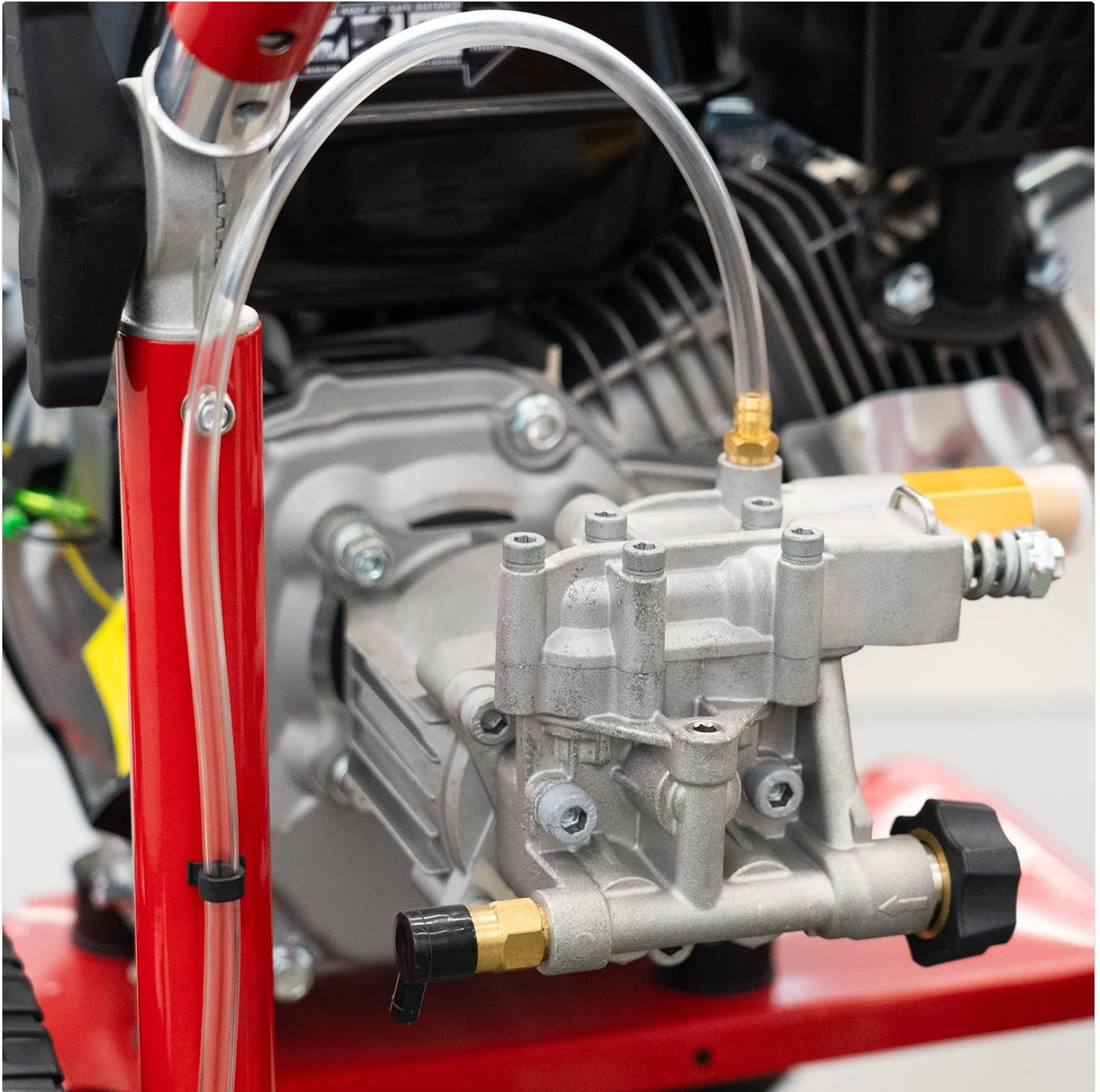


Image 6: The Hourley Axial Pump shown correctly installed on a gas-powered pressure washer, demonstrating the final assembly.

6. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your pressure washer with the new Hourley pump:

1. **Water Supply:** Connect a garden hose to the pump's water inlet. Ensure the water supply is turned on fully before starting the engine.
2. **Purge Air:** Squeeze the trigger on the spray gun to purge air from the pump and hoses until a steady stream of water emerges. This prevents damage to the pump.
3. **Start Engine:** Follow your pressure washer engine's starting procedures. The Hourley pump is designed for easy cold starts without needing to release pressure beforehand.

4. **Begin Cleaning:** Once the engine is running, aim the spray gun at the cleaning surface and squeeze the trigger. Adjust the nozzle for desired spray pattern.
5. **Detergent Application:** If using detergent, ensure the chemical injection hose is submerged in the detergent solution. Apply detergent at low pressure.
6. **Shut Down:** When finished, release the spray gun trigger. Turn off the engine. Turn off the water supply. Squeeze the trigger again to release any remaining pressure in the system.



Image 7: A user operating a pressure washer, demonstrating typical use for cleaning surfaces. An inset shows the Hourleey pump and included accessories.

7. MAINTENANCE

The Hourleey Axial Pump is designed for minimal maintenance, featuring a maintenance-free crankcase.

- **No Oil Changes:** The pump comes pre-filled with oil, and its maintenance-free design means no initial oil filling or periodic oil changes are required.

- **Winterization:** If storing the pressure washer in freezing temperatures, always winterize the pump to prevent damage. Use a pump saver solution or non-toxic antifreeze.
- **Clean Inlet Filter:** Regularly check and clean the inlet filter on the garden hose connection to prevent debris from entering the pump.
- **Inspect Hoses and Connections:** Before each use, inspect all hoses and connections for wear, cracks, or leaks. Replace damaged components immediately.
- **Storage:** Store the pressure washer and pump in a dry, protected area.

8. TROUBLESHOOTING

If you encounter issues with your Hourleey pump, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
No water flow or low pressure	Water supply off or restricted; Air in pump; Clogged inlet filter; Kinked hose.	Ensure water supply is fully open; Purge air from pump by squeezing trigger; Clean inlet filter; Straighten hoses.
Pump leaks water	Loose connections; Damaged O-rings or seals.	Tighten all hose connections; Inspect and replace worn O-rings or seals.
Engine runs but no pressure	Air in pump; Unloader valve stuck open; Worn pump seals.	Purge air from pump; Consult a service technician for unloader or seal issues.
Pump overheating	Running in bypass mode for too long; Insufficient water supply.	Avoid prolonged bypass operation; Ensure adequate water flow to the pump. The thermal relief valve should activate if overheating occurs.

For issues not covered here, or if problems persist, please contact Hourleey customer support.

9. WARRANTY AND SUPPORT

For warranty information or technical assistance, please refer to the documentation provided with your original purchase or visit the official Hourleey website. You can also contact Hourleey customer support directly for assistance with your 3/4" Shaft Horizontal Pressure Washer Axial Pump.

Contact Information: Please refer to your purchase receipt or the Hourleey brand store on Amazon for the most current customer support contact details.

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