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› WASSERMANN RV Water Pump 12V DC - 4WDP5-55-12V Instruction Manual

WASSERMANN 4WDP5-55-12V

WASSERMANN RV Water Pump 12V DC

MODEL: 4WDP5-55-12V INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your WASSERMANN 4WDP5-55-12V RV Water Pump. This self-priming diaphragm pump delivers a strong water flow of up to 5 gallons per minute (GPM) with a consistent 55 PSI pressure, making it suitable for RVs, campers, marine applications, yachts, and garden use. The pump features a 12V DC motor, automatic pressure switch, corrosion-resistant construction, and safe dry-run capability for reliable performance.

2. Included Components

Your WASSERMANN RV Water Pump kit includes the following items:

- 1x 12V RV Water Pump
- 2x 1/2" Barbed Hose Adaptors
- 1x 1/2" Male Thread Hose Adaptor
- 1x Filter Out Debris (Strainer)
- 1x User Manual



Figure 1: Included accessories for the WASSERMANN 4WDP Series water pump.

3. Setup & Installation

Ensure the pump is installed in a dry, well-ventilated area, protected from direct sunlight and freezing temperatures. Mount the pump securely to minimize vibration and noise.

3.1 Power Requirements

The pump operates on 12V DC power. It requires a nominal current of 5.5A and a maximum current of 15.8A. Ensure your power source (battery or vehicle's electrical system) can adequately supply these requirements to prevent the pump from running continuously without reaching full pressure.



Figure 2: The pump can be connected to any standard 12-volt battery or directly into your vehicle's cigarette lighter socket (adapters not included).

3.2 Plumbing Connections

The pump features a self-priming design, but it is recommended to ensure the inlet hose is filled with water before initial operation for faster priming. Use the provided 1/2" barbed hose adaptors and male thread hose adaptor for secure connections.

1. **Strainer Installation:** Firmly tighten the included strainer to the pump's inlet connection. This filter prevents debris from entering the pump.
2. **Hose Adaptor Installation:** Install the appropriate barbed hose adaptor to the threaded NPSM on the pump.
3. **Hose Connection:** Connect your water hoses to the barbed hose adaptors.
4. **Secure Clamps:** Install clamps on all hose connections to prevent leaks.



Figure 3: Step-by-step installation of the pump and strainer.



Figure 4: Proper connection of inlet (with filter) and outlet hoses.

4. Operating Instructions

The WASSERMANN RV Water Pump is designed for fully automatic operation.

4.1 Automatic Pressure Switch

The pump is equipped with a pressure switch that automatically starts the pump when a tap is opened and shuts it off when the tap is closed. This provides a convenient, hands-off water system.

4.2 Bypass Switch

The built-in bypass switch helps maintain stable water pressure and prevents the pump from constantly cycling (starting and stopping rapidly) when water flow is low. This ensures smoother operation and extends pump life.

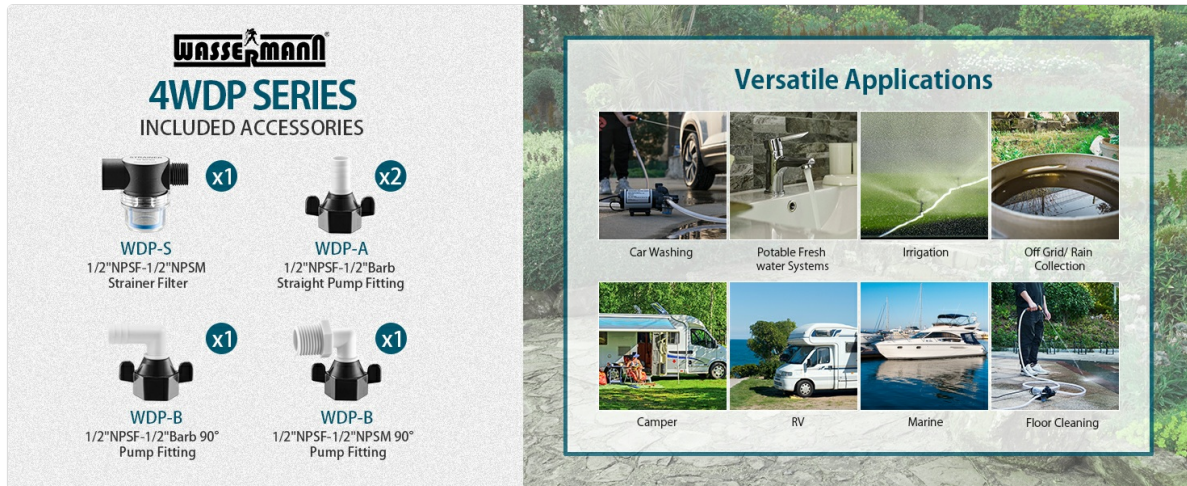


Figure 5: Location and function of the bypass switch.

4.3 Pressure Adjustment

The pump's shut-off pressure is factory-set to 55 PSI. If adjustment is needed:

1. Unscrew the screws on the upper cover of the pressure switch.
2. Use a pressure regulator needle to adjust the pressure.
3. Turning clockwise increases the pressure, and turning counter-clockwise decreases it.



Figure 6: Steps for adjusting the pump's pressure switch.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your pump.

5.1 Strainer Cleaning

The pump is designed to pump clean water. If the liquid contains impurities, the 50-mesh stainless steel strainer at the inlet connection will help filter out debris. Periodically remove and clean the strainer to prevent blockages and maintain efficient water flow.



Figure 7: Components of the 50-mesh stainless steel strainer.

5.2 General Care

- The pump features corrosion-resistant construction for durability.
- It has safe dry-run capability, meaning it can run without water for short periods without damage, but prolonged dry running should be avoided.
- Ensure all connections remain tight to prevent leaks.

6. Troubleshooting

If you encounter issues with your pump, refer to the following common problems and solutions:

- **Pump runs continuously but does not fully pressurize:** This often indicates insufficient voltage or amperage from the power source. Ensure your 12V DC supply can provide at least 5.5A (nominal) and up to 15.8A (max). Check battery charge and wiring.
- **Excessive vibration or noise:** The pump is designed to be quiet. If it vibrates excessively, ensure it is solidly mounted to a stable surface. Unsecured mounting can amplify operational sounds.
- **Inconsistent pressure or rapid cycling:** Check for air in the system, leaks in the plumbing, or a clogged strainer. Refer to Section 4.3 for pressure switch adjustment if needed. The bypass switch should help mitigate rapid cycling.
- **No water flow:** Verify power supply, check for blockages in the inlet or outlet hoses, ensure the strainer is clean, and confirm the water source is available.

7. Specifications

Feature	Specification
Brand	WASSERMANN
Model Number	4WDP5-55-12V
Voltage	12 Volts DC
Maximum Flow Rate	5 Gallons Per Minute (GPM)
Shut-Off Pressure	55 PSI
Nominal Amps	5.5A
Maximum Amps	15.8A
Maximum Lifting Height	125 Feet
Product Dimensions (L x W x H)	9.03" x 4.92" x 4.33"
Item Weight	6.1 Pounds
Material	Plastic (Thermoplastic Construction)
Power Source	Corded Electric
Specific Uses	RV, Marine, Yacht, Lawn, Garden

