

WASSERMANN 3WDP4-45-12V

WASSERMANN 3WDP4-45-12V RV Water Pressure Pump User Manual

Model: 3WDP4-45-12V | Brand: WASSERMANN

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your WASSERMANN 3WDP4-45-12V RV Water Pressure Pump. Designed for reliable water supply in RVs, marine vessels, camping setups, yachts, and garden applications, this self-priming 12V DC pump delivers a strong output of up to 4.0 GPM at 45 PSI. Please read this manual thoroughly before use to ensure proper function and longevity of the product.

2. SAFETY INFORMATION

- **Electrical Safety:** Ensure the power source is 12V DC. Disconnect power before performing any installation, maintenance, or troubleshooting. All electrical connections should be secure and protected from moisture.
- **Water Quality:** This pump is designed for pumping clean water only. Pumping abrasive liquids, flammable liquids, or liquids containing large debris can damage the pump and void the warranty.
- **Installation:** Mount the pump in a dry, well-ventilated area. Ensure adequate space for air circulation around the motor. Avoid mounting in direct sunlight or areas exposed to extreme temperatures.
- **Pressure:** The pump operates with a pressure switch. Do not exceed the maximum operating pressure of 45 PSI.
- **Dry Running:** The pump is designed to allow dry running for short periods, but prolonged dry running should be avoided to prevent overheating and damage.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x WASSERMANN 12V RV Water Pressure Pump (Model: 3WDP4-45-12V)
- 2 x 1/2" Barbed Hose Adaptors
- 1 x 1/2" Male Thread Hose Adaptor
- 1 x Filter Out Debris Strainer
- User Manual (this document)



Image 3.1: WASSERMANN 3WDP4-45-12V RV Water Pressure Pump with included adaptors and strainer.

4. SPECIFICATIONS

Feature	Specification
Brand	WASSERMANN
Model	3WDP4-45-12V
Voltage	12 Volts DC
Maximum Flow Rate	4 Gallons Per Minute (GPM)
Pressure Setting	45 PSI (Automatic Pressure Switch)
Maximum Lifting Height	98 Feet
Self-priming Vertical Lift	Up to 6.5 Feet
Product Dimensions (L x W x H)	8.15" x 5.12" x 4.86"
Item Weight	4.17 Pounds
Motor	12V DC Core Motor, Pure Copper Windings
Construction Material	Thermoplastic Housing, Santoprene Diaphragm, EPDM/Viton Valves/Seals
Noise Level	Approximately 45dB

3WDP Series Parameters

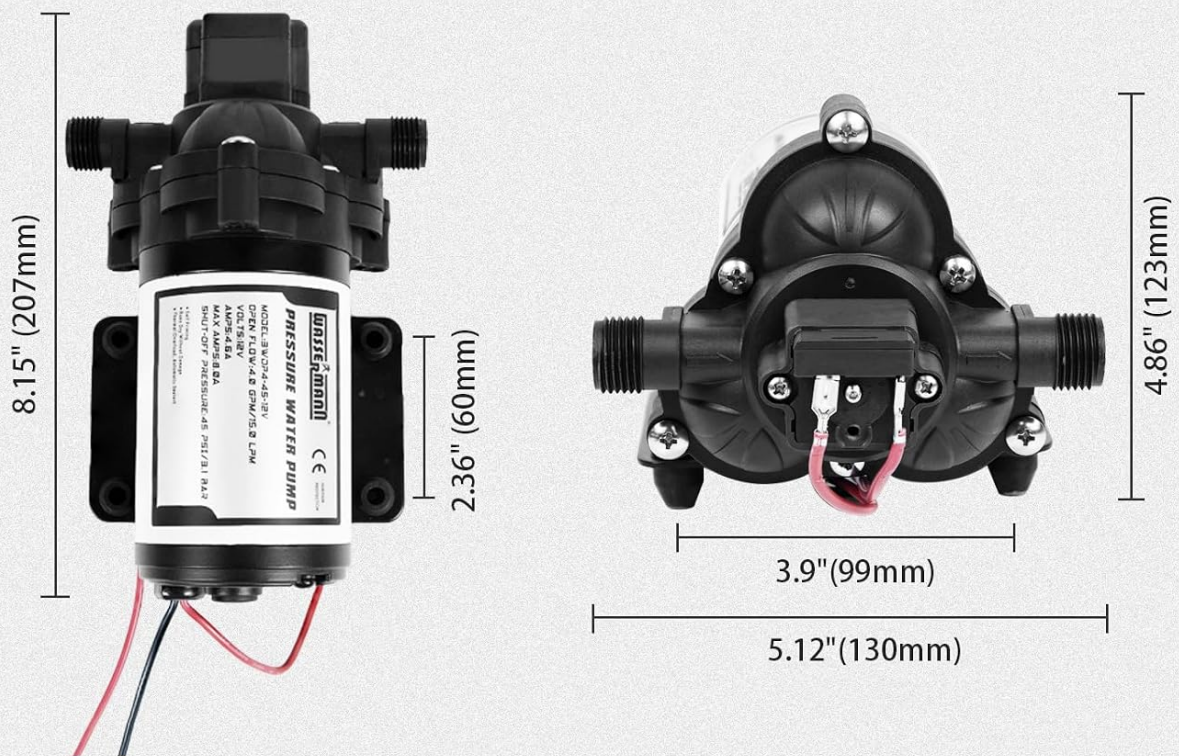


Image 4.1: Detailed dimensions of the pump and various adapter types.

DURABLE MATERIALS



Image 4.2: Overview of durable materials and components used in the pump's construction.

5. SETUP AND INSTALLATION

Follow these steps for proper installation of your WASSERMANN RV Water Pressure Pump:

1. **Mounting:** Secure the pump to a solid, flat surface using appropriate fasteners. The rubber base helps reduce vibration and noise. Ensure the pump is mounted in a location that allows for easy access for maintenance and inspection.
2. **Strainer Installation:** Firmly tighten the included 50-mesh strainer to the pump's inlet port (1/2" NPTF). This prevents debris from entering and damaging the pump.
3. **Hose Connection:** Install the appropriate barbed hose adapter (1/2" NPTM) onto the pump's threaded ports. Connect your water inlet hose to the strainer side and the outlet hose to the other port. Use hose clamps to secure all connections to prevent leaks.
4. **Power Connection:** Connect the pump to a 12V DC power source. The red wire is positive (+), and the black wire is negative (-). Ensure correct polarity. The pump can be powered by a 12V battery or connected to a cigarette lighter socket in an RV/camper (adapter not included).
5. **Priming:** The pump is self-priming. Once all connections are secure and the power is supplied, open a faucet in your water system to allow air to escape. The pump will draw water and prime itself.

EASY TO INSTALL



Image 5.1: Step-by-step guide for connecting the strainer, adapters, and hoses to the pump.

CONVENIENT WATER SUPPLY FOR RV

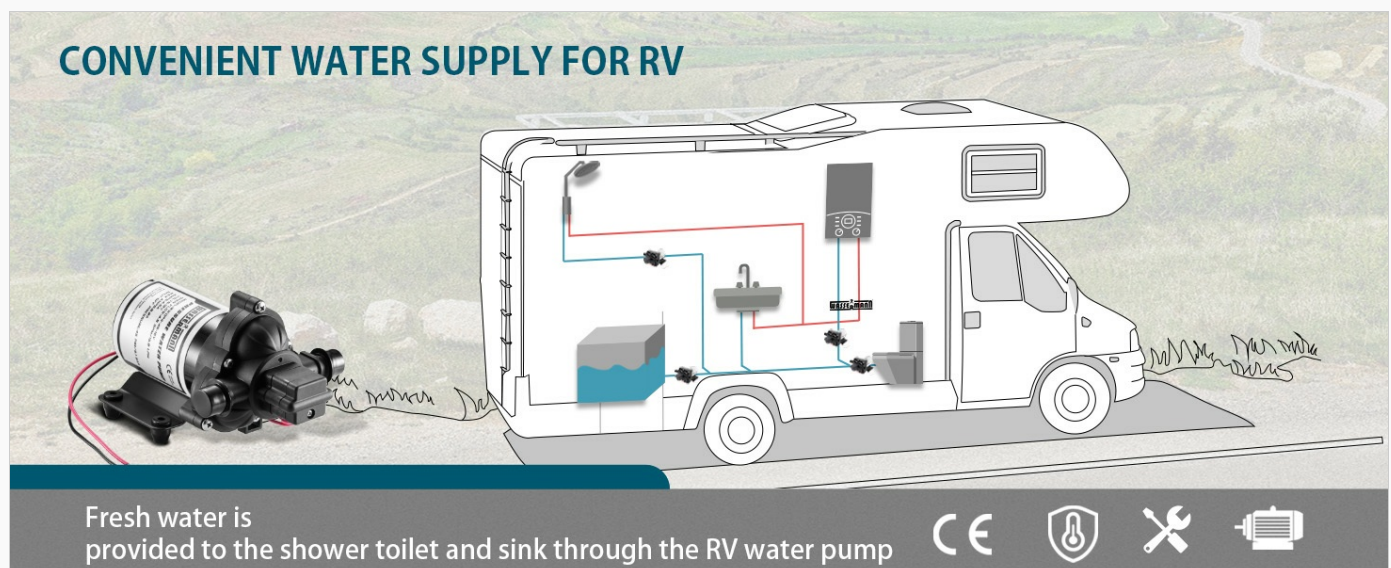


Image 5.2: Example diagram of the pump providing fresh water to an RV's shower, toilet, and sink.



Image 5.3: Powering options for the pump, including direct battery connection and cigarette lighter adapter (not included).

6. OPERATION

The WASSERMANN 3WDP4-45-12V pump features an automatic pressure switch for convenient operation:

- **Automatic Operation:** The pump will automatically start when a tap or fixture is opened, causing a drop in system pressure. It will stop when all taps are closed and the system pressure reaches 45 PSI.
- **Pressure Adjustment:** The pump's pressure switch is factory-set to 45 PSI. If adjustment is needed, carefully follow these steps:
 - a. Disconnect power to the pump.
 - b. Unscrew the screws on the upper cover of the pressure switch.
 - c. Use a small flat-head screwdriver to adjust the pressure regulator needle. Turning clockwise increases the pressure, and turning counter-clockwise decreases it. Make small adjustments and test the pump's operation.
 - d. Replace the cover and secure the screws.

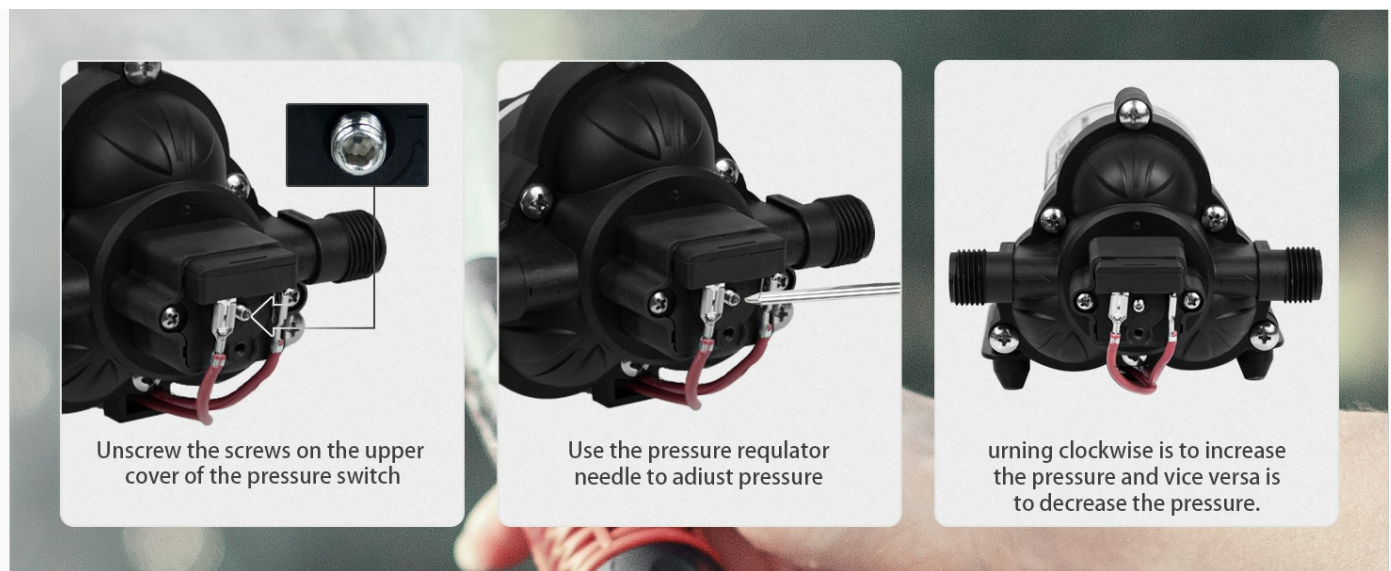


Image 6.1: Instructions for adjusting the pump's pressure switch.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your pump:

- **Strainer Cleaning:** Periodically inspect and clean the inlet strainer to prevent blockages. Unscrew the clear housing, remove the mesh filter, rinse it with clean water, and reassemble.
- **General Cleaning:** Keep the exterior of the pump clean and free from dirt and debris. Do not use harsh chemicals or abrasive cleaners.
- **Winterization:** In freezing temperatures, drain all water from the pump and plumbing system to prevent damage from ice expansion. Disconnect hoses and run the pump briefly (less than 30 seconds) to expel any remaining water. Store in a dry, frost-free environment.
- **Connection Checks:** Regularly check all hose connections and electrical wiring for leaks, corrosion, or damage. Tighten connections as needed.



Image 7.1: Disassembly and cleaning of the 50-mesh stainless steel inlet strainer.

8. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Pump does not start	No power, incorrect wiring, blown fuse/breaker, pressure switch fault.	Check power supply, verify wiring polarity, inspect fuse/breaker, check pressure switch connections.
No water flow or low pressure	Clogged strainer, air in system, kinked hose, low water supply, internal blockage, red caps in inlet/outlet.	Clean strainer, bleed air from system by opening faucets, check hoses for kinks, ensure adequate water supply, inspect for internal blockages, verify and remove any red protective caps from inlet/outlet ports before connecting hoses.
Pump runs continuously (cycles on/off rapidly)	Leak in plumbing system, faulty pressure switch, air in system.	Check all connections and fixtures for leaks, inspect pressure switch, bleed air from system.
Excessive noise/vibration	Loose mounting, air in system, debris in pump, worn components.	Ensure pump is securely mounted, bleed air from system, clean strainer, inspect pump for internal debris.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact WASSERMANN customer support directly. Keep your proof of purchase for warranty claims.

If you encounter issues not covered in this manual or require further assistance, please contact WASSERMANN customer service through their official website or the retailer where the product was purchased.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question