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Gidrox RVDHP3-L

Gidrox 12V RV Water Pump (4.0 GPM 45 PSI) Instruction Manual

Model: RVDHP3-L

1. Introduction

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Gidrox 12V RV Water Pump. This diaphragm pump is designed for use in recreational vehicles (RVs), campers, boats, and other off-grid applications requiring a reliable fresh water supply. It features a 4.0 GPM flow rate and a 45 PSI pressure setting, with an adjustable range.

2. Safety Information

Please read and understand all safety instructions before installing or operating the pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- **Electrical Safety:** Ensure the power supply is disconnected before performing any installation or maintenance. Connect the pump only to a 12V DC power source. Observe correct polarity (red wire to positive, black wire to negative). Use appropriate wire gauges and fuses as recommended.
- **Water Safety:** This pump is designed for fresh water only. Do not use with flammable liquids, corrosive chemicals, or water above 158°F (75°C). Prevent the pump and plumbing from freezing, as this can cause severe damage.
- **Installation:** Mount the pump in a dry, well-ventilated area, protected from direct sunlight and extreme temperatures. Ensure all connections are secure to prevent leaks.
- **Operation:** Do not run the pump dry for extended periods. Ensure the water source is clean and free of debris.

3. Package Contents

Verify that all items listed below are included in your package:

- 12V RV Water Pump (Model RVDHP3-L)
- 12.7mm Barbed Fitting (Quantity: 2)
- 50 Mesh Stainless Steel Filter Screen
- 8 Meters of PTFE Tape
- L-shaped Hex Key (Allen Wrench)
- Stainless Steel Hose Clamp (Quantity: 2)
- Male Thread Elbow Fitting (Quantity: 1)

- Barbed Elbow Adapter (Quantity: 1)



Image: The Gidrox 12V RV Water Pump shown with its dimensions and all included fittings and accessories for installation.

4. Product Features

The Gidrox 12V RV Water Pump is engineered with several features to ensure reliable and efficient water delivery:

- **Overheating Protection:** The pump includes a dual safeguard system with 158°F (75°C) overheating protection, enhancing safety and product longevity.
- **Noise Reduction:** Incorporates vortex noise reduction technology and a rubber vibration-damping base, resulting in a low operating noise level of 40 dB. This design reduces sound output by approximately 70% compared to traditional metal pump housings.
- **Reliable Performance:** Delivers a consistent 4.0 GPM flow, features a 10 ft self-prime capability, and can achieve a 100 ft head pressure, ensuring strong and steady water supply.
- **Adjustable Pressure:** The pump is preset to an ideal 45 PSI, with an adjustable pressure range of 30–80 PSI. This allows

customization of water pressure for various needs.

- **Automatic Operation:** A smart auto start-stop system maintains the chosen pressure silently, providing consistent water flow only when needed.
- **Durability:** Components are designed for extended life, with the pressure switch rated for 1,000,000 cycles, the diaphragm for 2,000 hours, and the motor for 5,000 hours.



Image: A graph demonstrating the Gidrox pump's low noise level of 40 dB during operation.



Image: An illustration detailing the measured durability of key pump components: pressure switch (1,000,000 cycles), diaphragm (2,000 hours), and motor (5,000 hours).



Image: The pump features thermal protection, with a trip point at 75°C (158°F) to prevent overheating.



Image: The pump provides a maximum flow of 4.0 GPM, a maximum suction of 10 feet, and a maximum head pressure of 100 feet.

5. Setup and Installation

Follow these steps for proper installation of your Gidrox 12V RV Water Pump:

1. **Mounting:** Select a dry, secure location for the pump. Use screws (not included) to fasten the pump to a solid surface through its mounting feet. Ensure the pump is mounted horizontally with the motor above the pump head if possible, to prevent water from entering the motor in case of a seal leak.
2. **Plumbing Connections:**
    - **Inlet Filter:** Install the provided 50 mesh stainless steel filter screen on the inlet side of the pump (marked with an arrow pointing towards the pump). This prevents debris from entering the pump.
    - **Fittings:** Apply PTFE tape to the threads of all fittings before connecting them to the pump and your water lines. Use the appropriate barbed fittings and adapters for your hose size. Secure hose connections with the provided stainless steel hose clamps.
    - **Water Lines:** Connect the water supply line to the inlet side of the pump and the output line to your RV's plumbing system. Ensure all connections are watertight.
3. **Electrical Wiring:**

- Ensure the power source is OFF before wiring.
- Connect the **red wire** from the pump to the **positive (+)** terminal of your 12V DC power supply.
- Connect the **black wire** from the pump to the **negative (-)** terminal of your 12V DC power supply.
- It is recommended to install an inline fuse (not included, consult an electrician for appropriate sizing) on the positive wire close to the power source for circuit protection.

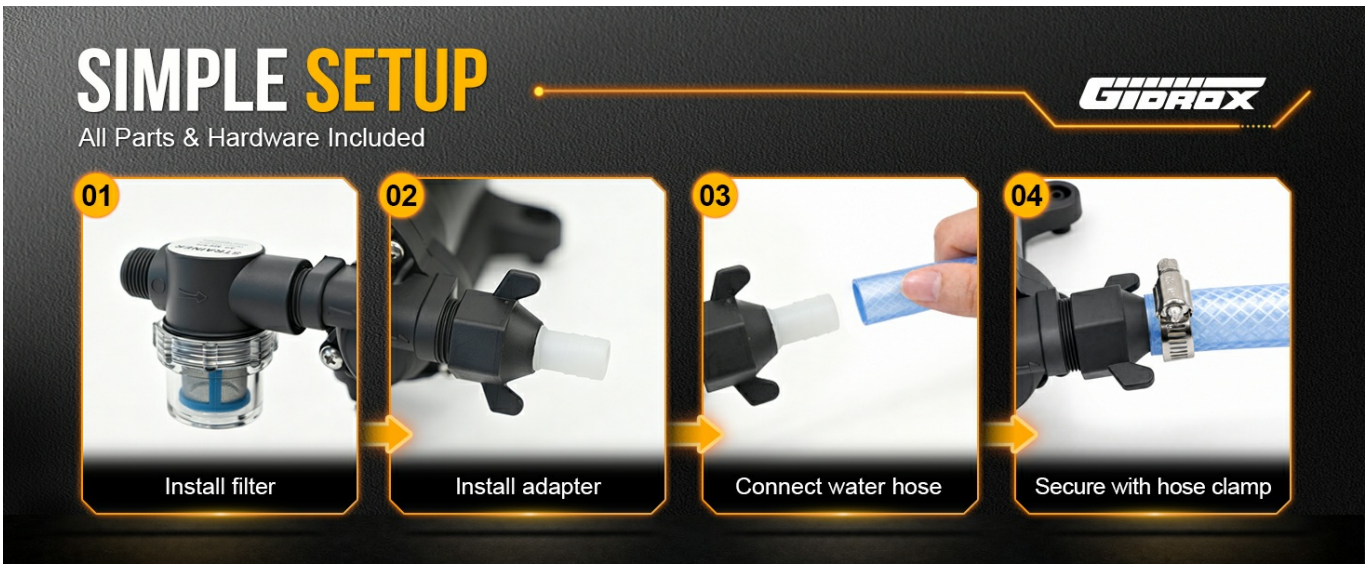


Image: A visual guide demonstrating the simple setup process: installing the filter, attaching the adapter, connecting the water hose, and securing it with a hose clamp.

6. Operation

Once installed, operating your Gidrox water pump is straightforward:

1. **Priming the Pump:** Ensure there is water in your supply tank. Open a faucet in your RV to allow air to escape the system. Turn on the pump's power. The pump will self-prime, drawing water and expelling air until a steady flow is achieved. Close the faucet once water flows consistently.
2. **Automatic Operation:** The pump features an internal pressure switch. When a faucet is opened, the system pressure drops, and the pump automatically turns on. When the faucet is closed, the pressure builds up, and the pump automatically turns off.
3. **Adjusting Pressure:** The pump's pressure switch is factory-set to 45 PSI. If adjustment is desired, use the L-shaped hex key to turn the adjustment screw on the pressure switch. Turning clockwise increases pressure (up to 80 PSI), and turning counter-clockwise decreases pressure (down to 30 PSI). Make small adjustments and test the water flow.



Image: The adjustable pressure switch allows users to customize the water pressure. Turn clockwise to increase pressure, and counter-clockwise to decrease it.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your pump.

- **Inlet Filter Cleaning:** Periodically inspect and clean the 50 mesh stainless steel filter screen located on the pump's inlet. Turn off power, disconnect the inlet hose, unscrew the filter housing, remove and rinse the screen under clean water. Reassemble securely.
- **Winterization:** To prevent freeze damage in cold climates, the pump and water lines must be drained. Turn off the pump and open all faucets to drain the system. Disconnect the inlet and outlet lines from the pump to allow any remaining water to drain. You may also run RV antifreeze through the system according to your RV manufacturer's instructions.
- **General Inspection:** Regularly check all hose connections for leaks and ensure electrical connections are secure and free from corrosion.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Pump does not run	No power, blown fuse, loose wiring, faulty switch.	Check power supply, fuse, and all electrical connections. Ensure the main switch is on.
Pump runs but no water flow	No water in tank, air in system, clogged inlet filter, kinked hose.	Check water level. Open faucets to bleed air. Clean inlet filter. Inspect hoses for kinks.
Low flow or low pressure	Clogged filter, low voltage, partially closed valve, worn pump head.	Clean inlet filter. Check battery voltage. Ensure all valves are fully open. Adjust pressure switch.
Pump cycles on and off rapidly	Small leak in system, pressure switch setting too low, restricted flow.	Check for leaks in plumbing. Adjust pressure switch to a higher setting. Ensure no restrictions in output line.
Water leaks from pump or connections	Loose fittings, damaged O-rings, cracked housing.	Tighten all fittings. Inspect and replace O-rings if damaged. If housing is cracked, pump may need replacement.

9. Specifications

Specification	Detail
Brand	Gidrox
Model Number	RVDHP3-L
Voltage	12 Volts DC
Maximum Flow Rate	4.0 GPM (Gallons Per Minute)
Rated Pressure	45 PSI
Adjustable Pressure Range	30-80 PSI
Maximum Lifting Height (Head)	100 feet
Self-Priming Height	10 feet
Product Dimensions (L x W x H)	8.58" x 5.31" x 5.39"
Item Weight	5.2 pounds
Material	Plastic, Rubber
Overheating Protection Trip Point	158°F (75°C)
Noise Level	40 dB

10. Warranty and Support

The Gidrox 12V RV Water Pump comes with a **3-Year Warranty**, which includes a 2-year manufacturer warranty plus an additional 1-year extended coverage. This warranty covers defects in materials and workmanship under normal use.
For technical assistance, troubleshooting, or warranty claims, please contact Gidrox customer support. Our support team is available to assist you with any questions or concerns regarding your product.
Please refer to the contact information provided with your purchase or visit the official Gidrox website for support details.

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