Shurflo 2095-403-444

Shurflo Trail King 10 Water Pump 2095-403-444 User Manual

Model: 2095-403-444 | Brand: Shurflo

1. Introduction

Thank you for choosing the Shurflo Trail King 10 Water Pump, Model 2095-403-444. This durable and reliable high-pressure diaphragm pump is designed for use in various applications, including caravans, mobile homes, and boats. It provides consistent water pressure and is built for longevity. This manual provides essential information for the safe installation, operation, and maintenance of your pump.

2. Safety Information

Please read all safety instructions carefully before installation and operation to prevent injury or damage to the pump. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power before performing any service or maintenance.
- Ensure proper electrical grounding according to local codes and regulations.
- Do not pump flammable liquids or operate in explosive atmospheres.
- Protect the pump from freezing temperatures.
- Use appropriate fuse protection for the electrical circuit.
- Ensure all plumbing connections are secure and leak-free.

3. Setup and Installation

3.1 Mounting

Mount the pump in a dry, accessible location, protected from direct sunlight and freezing temperatures. The pump can be mounted in any position. Use the provided mounting feet to secure the pump to a solid surface, ensuring minimal vibration.




DIAPHRAGM PUMP
SHURflo®
TRAIL KING 10
2095 - 403- 444
MODEL No.
OPEN FLOW 2.8 USGPM 10.6 ℓ/MIN. VOLTS 12 VDC
AMPS 4.0 MAX PRESSURE SETTING 45 PSI
IGNITION PROTECTED
032230
USE 10 AMP TIME DELAY FUSE
MOTOR DUTY CYCLE WILL VARY WITH LOAD AND AMBIENT TEMPERATURE
27/03/14
PATENT PENDING
MFG.
PCI 19-230 Rev K 01/08
(800) 854-3218 • www.shurflo.com

Image 1: Angled view of the Shurflo Trail King 10 Water Pump, highlighting its compact design and connection points. This view shows the motor, pump head, and electrical wiring.

3.2 Plumbing Connections

Connect the inlet side of the pump to your water source (e.g., fresh water tank) and the outlet side to your plumbing system. Use flexible hose to minimize vibration and noise. Ensure all connections are tight to prevent leaks and air ingress, which can affect pump performance.

- Install a strainer/filter on the inlet side to protect the pump from debris.
- Avoid kinks or sharp bends in the hoses.
- The pump features integrated check valves to prevent backflow.



Image 2: Front view of the Shurflo Trail King 10 Water Pump, clearly showing the blue inlet and outlet ports. This perspective helps identify the flow direction for plumbing connections.

3.3 Electrical Wiring

Connect the pump to a 12V DC power source. Ensure the wiring gauge is appropriate for the distance and current draw. Install an inline fuse (not supplied) on the positive (+) wire as close to the power source as possible. The pump is thermally protected for safety.

- Connect the red wire to the positive (+) terminal.
- Connect the black wire to the negative (-) terminal.
- Refer to the pump label for specific voltage and current requirements.

4. Operating Instructions

4.1 Initial Priming

Once all connections are made, open a faucet in your system. Turn on the pump's power supply. The pump will begin to run, drawing water and expelling air from the system. Allow the water to flow until a steady stream without air bubbles is achieved. Close the faucet; the pump should shut off automatically as pressure builds.

4.2 Automatic Operation

The Shurflo Trail King 10 is an automatic demand pump. It will turn on when a faucet is opened and the system pressure drops, and turn off when the faucet is closed and the system reaches its set pressure (45 PSI). The pump is capable of dry running without damage, but it is recommended to always have water in the supply tank.

5. Maintenance

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

- **Strainer/Filter:** Periodically inspect and clean the inlet strainer to prevent debris from entering the pump.
- **Connections:** Check all plumbing and electrical connections regularly for tightness and signs of wear or corrosion.
- **Winterization:** If operating in freezing conditions, drain all water from the pump and plumbing system. Run non-toxic RV antifreeze through the system to prevent damage.
- **General Cleaning:** Keep the exterior of the pump clean and free of dirt and grime.

6. Troubleshooting

Problem	Possible Cause	Solution
Pump does not run	No power, blown fuse, loose wiring, motor fault	Check power supply, replace fuse, tighten connections, contact support if motor fault suspected.
Pump runs but no water flows	No water in tank, air leak on inlet, clogged strainer, pump not primed	Check water level, inspect inlet connections, clean strainer, re-prime pump.
Low flow or pressure	Clogged strainer, air leak, restricted plumbing, low voltage	Clean strainer, check for air leaks, inspect plumbing for blockages, verify voltage.
Pump cycles on and off rapidly	Water leak in system, pressure switch issue, air in system	Check for leaks, ensure all faucets are closed, bleed air from system, contact support if pressure switch is faulty.

Problem	Possible Cause	Solution
Pump is noisy	Vibration, air in system, restricted inlet, loose mounting	Ensure flexible hoses are used, bleed air, check inlet for restrictions, tighten mounting screws.

7. Specifications

Key technical specifications for the Shurflo Trail King 10 Water Pump:

Feature	Detail
Brand Name	Shurflo
Model Number	2095-403-444
Product Type Name	Shurflo Trail King 10 Water Pump
Power Source	Corded Electric (12V DC)
Pressure Setting	45 PSI
Flow Rate	10.6 Liters/Minute (2.8 US GPM)
Materials	Plastic and Metal
Color	Silver
Manufacturer	AutoMotion Factors Limited
GTIN (Global Trade Item Number)	00752324002122
UPC	752324002122
ASIN	B00NU5IYFU

8. Warranty and Support

This Shurflo product is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Shurflo website.

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Shurflo customer support. Contact information can typically be found on the product packaging or the manufacturer's website.

Please retain your proof of purchase for warranty claims.