

Shurflo 2095-403-443

Shurflo 2095-403-443 Trail King 10 Water Pump

Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Shurflo 2095-403-443 Trail King 10 water pump. Please read these instructions thoroughly before attempting to install or operate the pump. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in personal injury or damage to the pump.

- **Electrical Safety:** Ensure all electrical connections are made by a qualified person and comply with local regulations. Disconnect power before servicing.
- **Flammable Liquids: DO NOT PUMP FLAMMABLE LIQUIDS.** This pump is designed for water only. Pumping flammable liquids can cause explosion or fire.
- **Thermal Protection:** The pump is equipped with thermal overload protection for the motor. If the pump overheats, it will shut off automatically and restart once cooled.
- **Pressure:** Do not exceed the maximum operating pressure of 30 PSI (2.07 bar).
- **Water Temperature:** Do not pump water hotter than the maximum specified temperature (not explicitly given, but good general advice).
- **Mounting:** Securely mount the pump to prevent vibration and movement during operation.

3. PRODUCT OVERVIEW

The Shurflo 2095-403-443 Trail King 10 is a durable and reliable 12V high-pressure water pump, ideal for use in caravans, motorhomes, and boats. It features integrated check valves to prevent backflow and thermal protection for enhanced safety.



Figure 1: Shurflo 2095-403-443 Trail King 10 Water Pump. This image shows the compact design of the pump, including its motor, pump head, electrical connections (red and black wires), and inlet/outlet ports with blue caps. The label on the motor indicates key specifications.

4. SPECIFICATIONS

Feature	Specification
Model Number	2095-403-443
Voltage	12 Volts DC

Feature	Specification
Max Flow Rate	10.6 Liters per minute (2.8 GPM)
Switch Off Pressure	30 PSI (2.07 bar)
Recommended Fuse	5 AMP Slow Blow
Material	Plastic and Metal
Dimensions (L x W x H)	4.72 x 5.67 x 11.5 cm (47L x 57l x 115H millimeters)
Weight	1.8 Kilograms
Features	Integrated check valves, Thermal overload protection, Runs dry quickly

5. INSTALLATION

5.1 Mounting

- Choose a dry, well-ventilated location for mounting the pump.
- Mount the pump on a solid surface using appropriate fasteners to minimize vibration.
- Ensure there is sufficient space around the pump for ventilation and future maintenance.

5.2 Plumbing

- Connect the inlet side of the pump to your water source (e.g., fresh water tank).
- Connect the outlet side of the pump to your water distribution system.
- Use flexible hoses to reduce noise and vibration. Ensure all connections are tight to prevent leaks.
- The pump can run dry, but prolonged dry running is not recommended.

5.3 Electrical Connection

- Connect the pump to a 12V DC power source.
- Install a 5 AMP slow blow fuse in the positive (+) power line as close to the power source as possible.
- Ensure correct polarity: Red wire to positive (+), Black wire to negative (-).

6. OPERATION

1. Ensure all plumbing connections are secure and the water tank has sufficient water.
2. Open a faucet in your water system to allow air to escape.
3. Turn on the 12V power supply to the pump. The pump will begin to run.
4. Allow the pump to run until a steady stream of water flows from the faucet and all air is purged from the system.
5. Close the faucet. The pump will build pressure and then shut off automatically once the system pressure reaches 30 PSI (2.07 bar).
6. The pump will automatically restart when a faucet is opened or system pressure drops.

7. MAINTENANCE

7.1 General Care

- Regularly inspect all plumbing and electrical connections for wear or damage.

- Keep the pump area clean and free from debris.

7.2 Winterization (for cold climates)

- Drain all water from the pump and plumbing system to prevent freezing damage.
- Consider using non-toxic RV antifreeze according to its manufacturer's instructions.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not run	No power, blown fuse, loose wiring, motor thermal overload	Check power supply, replace fuse (5 AMP slow blow), tighten connections, allow motor to cool
Low flow or no water	Empty water tank, clogged inlet filter, air in system, kinked hose	Refill tank, clean filter, purge air by opening faucets, straighten hose
Pump runs continuously / cycles rapidly	Leak in plumbing, open faucet, faulty pressure switch, air in system	Check for leaks, close all faucets, contact service for pressure switch, purge air
Excessive noise/vibration	Loose mounting, rigid plumbing, air in system	Secure mounting, use flexible hoses, purge air

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official Shurflo website or contact your authorized Shurflo dealer. Keep your purchase receipt as proof of purchase.

Manufacturer: AutoMotion Factors Limited

Country of Origin: United Kingdom