

Johnson Pump 10-24939-18

Johnson Pump 10-24939-18 Rapid Rogue Ballast Pump User Manual

Model: 10-24939-18

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Johnson Pump 10-24939-18 Rapid Rogue Ballast Pump. Please read these instructions carefully before attempting to install or operate the pump. Retain this manual for future reference.

The Johnson Pump 10-24939-18 is a high-performance ballast pump designed for marine applications, featuring a flow rate of 30 gallons per minute (GPM). It is equipped with a dry run impeller and thermal overhead protection that automatically resets after cooling down, ensuring reliable operation.

SAFETY INFORMATION

Warning: Product may contain materials cautioned by California Proposition 65. Always follow local regulations and safety guidelines during installation and operation.

- Always disconnect power before installing, servicing, or performing any maintenance on the pump.
- Ensure all electrical connections are waterproof and meet marine standards to prevent short circuits and corrosion.
- Do not operate the pump if it appears damaged or if any wires are exposed.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Ensure proper ventilation in the installation area.

PRODUCT FEATURES

- **Flow Rate:** 30 Gallons Per Minute (GPM)
- **Hose Compatibility:** Designed for 1-1/2 inch (3.81 cm) hoses, suitable for retrofit applications.
- **Impeller Type:** Dry run impeller, providing enhanced durability.
- **Thermal Protection:** Built-in thermal overhead protection with automatic reset after cooling down.
- **Voltage:** 12 volts DC.



Image: Johnson Pump 10-24939-18 Rapid Rogue Ballast Pump. This image displays the compact design of the pump, highlighting its robust construction suitable for marine environments.

SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. Consult a qualified marine technician if you are unsure about any steps.

Mounting the Pump

1. Select a secure, accessible location for the pump, ensuring it is above the bilge water level if possible, or in a location where it can be easily inspected.
2. Mount the pump using appropriate fasteners, ensuring it is firmly secured to a stable surface.

Hose Connections

1. Connect a 1-1/2 inch (3.81 cm) hose to the pump's inlet and outlet ports.
2. Secure all hose connections with marine-grade hose clamps to prevent leaks.

- 3. Ensure hoses are routed without kinks or sharp bends that could restrict flow.

Electrical Connections

- 1. Connect the pump to a 12-volt DC power source. Refer to your vessel's wiring diagram for the correct circuit.
- 2. Install an appropriately sized fuse or circuit breaker in the positive (+) power line, close to the power source, to protect the pump and wiring.
- 3. Ensure all electrical connections are crimped, sealed, and protected from moisture and corrosion.

OPERATING INSTRUCTIONS

The Johnson Pump 10-24939-18 is designed for straightforward operation.

- 1. **Power On:** Activate the switch or circuit breaker connected to the pump's power supply.
- 2. **Monitor Flow:** Observe the water flow to ensure the pump is operating correctly and moving the desired volume of water.
- 3. **Power Off:** Deactivate the switch or circuit breaker when the ballast operation is complete or when the pump is not needed.

The pump's dry run impeller allows for brief periods of dry operation without immediate damage. However, continuous dry running should be avoided to maximize pump life. The thermal overhead protection will automatically shut off the pump if it overheats and will reset once it has cooled down.

MAINTENANCE

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

- **Regular Inspection:** Periodically inspect the pump, hoses, and electrical connections for signs of wear, corrosion, or damage.
- **Cleanliness:** Keep the pump and surrounding area clean. Remove any debris that may accumulate around the pump or in the intake.
- **Impeller Check:** If flow is reduced, inspect the impeller for obstructions or wear. Refer to the manufacturer's service instructions for impeller replacement.
- **Winterization:** In cold climates, ensure the pump and hoses are drained and protected from freezing temperatures to prevent damage.

TROUBLESHOOTING

This section addresses common issues you might encounter with your ballast pump.

Problem	Possible Cause	Solution
Pump does not run	No power; Blown fuse/tripped breaker; Loose wiring; Overheated motor	Check power supply; Replace fuse/reset breaker; Secure connections; Allow motor to cool and reset automatically.
Pump runs but no water flows	Clogged intake/outlet; Air lock; Damaged impeller; Kinked hose	Clear obstructions; Prime the pump (if applicable); Inspect/replace impeller; Straighten hose.
Reduced flow rate	Partial clog; Worn impeller; Voltage drop	Clear partial obstructions; Inspect/replace impeller; Check electrical connections and battery voltage.

Problem	Possible Cause	Solution
Pump runs intermittently	Loose electrical connection; Overheating (thermal protection cycling)	Secure all electrical connections; Ensure adequate cooling and proper load.

SPECIFICATIONS

Key technical specifications for the Johnson Pump 10-24939-18 Rapid Rogue Ballast Pump:

- **Model:** 10-24939-18
- **Manufacturer:** Johnson Pumps
- **Flow Rate:** 30 GPM (Gallons Per Minute)
- **Voltage:** 12 volts DC
- **Hose Connection:** 1-1/2 inches
- **Product Dimensions:** 28.58 x 13.97 x 9.53 cm (11.25 x 5.5 x 3.75 inches)
- **Item Weight:** 3.7 kg (8.16 lbs)
- **Features:** Dry run impeller, Automatic thermal overhead protection reset

WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided with your purchase or contact Johnson Pump directly. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase. If you require technical assistance or have questions not covered in this manual, please contact Johnson Pump customer support through their official website or authorized service centers. When contacting support, please have your pump model number (10-24939-18) and purchase details readily available.

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

Anonymous

Email

you@example.com

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