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Pentair 155403

Pentair 155403 JWP Hose Connection Assembly User Manual

Model: **155403** | Brand: **Pentair**

Introduction

This document provides essential information for the installation, operation, and maintenance of the Pentair 155403 JWP Hose Connection Assembly. This assembly is a critical component designed for use with Pentair Sta-Rite PLD and PLM aboveground pool/spa D.E. filters, facilitating the connection between the JWB pump and the filter system.



Figure 1: Main view of the Pentair 155403 JWP Hose Connection Assembly. This image shows the overall structure of the black plastic hose connection, featuring threaded ends for secure attachment to pool and spa filtration systems.

Setup and Installation

The Pentair 155403 JWP Hose Connection Assembly is designed for straightforward replacement or initial installation in compatible Pentair Sta-Rite PLD and PLM D.E. filter systems. Ensure all power to the pump and filter system is turned off before beginning installation.

1. **Preparation:** Ensure the area around the pump and filter is clean and free of debris. If replacing an existing assembly, carefully disconnect and remove the old component.
2. **Identify Connection Points:** The assembly has two distinct ends: one for connection to the JWB pump and the other for the PLD/PLM filter. Refer to your pump and filter manuals for specific port identification.
3. **Secure Pump Connection:** Align the appropriate threaded end of the hose connection assembly with the outlet port of the JWB pump. Hand-tighten first, then use a wrench if necessary, ensuring a snug, leak-free fit. Do not overtighten.



Figure 2: Side view of the hose connection assembly, showing the threaded ends. This view highlights the distinct threading patterns on each end, crucial for proper alignment and connection to the pump and filter components.

4. **Secure Filter Connection:** Connect the other end of the hose connection assembly to the inlet port of the Pentair Sta-Rite PLD or PLM D.E. filter. Hand-tighten, then use a wrench for a secure seal.
5. **Leak Check:** Once both ends are securely connected, restore power to the pump and filter system. Carefully inspect all connection points for any signs of water leakage. If leaks are present, turn off power, re-tighten connections, and re-check.

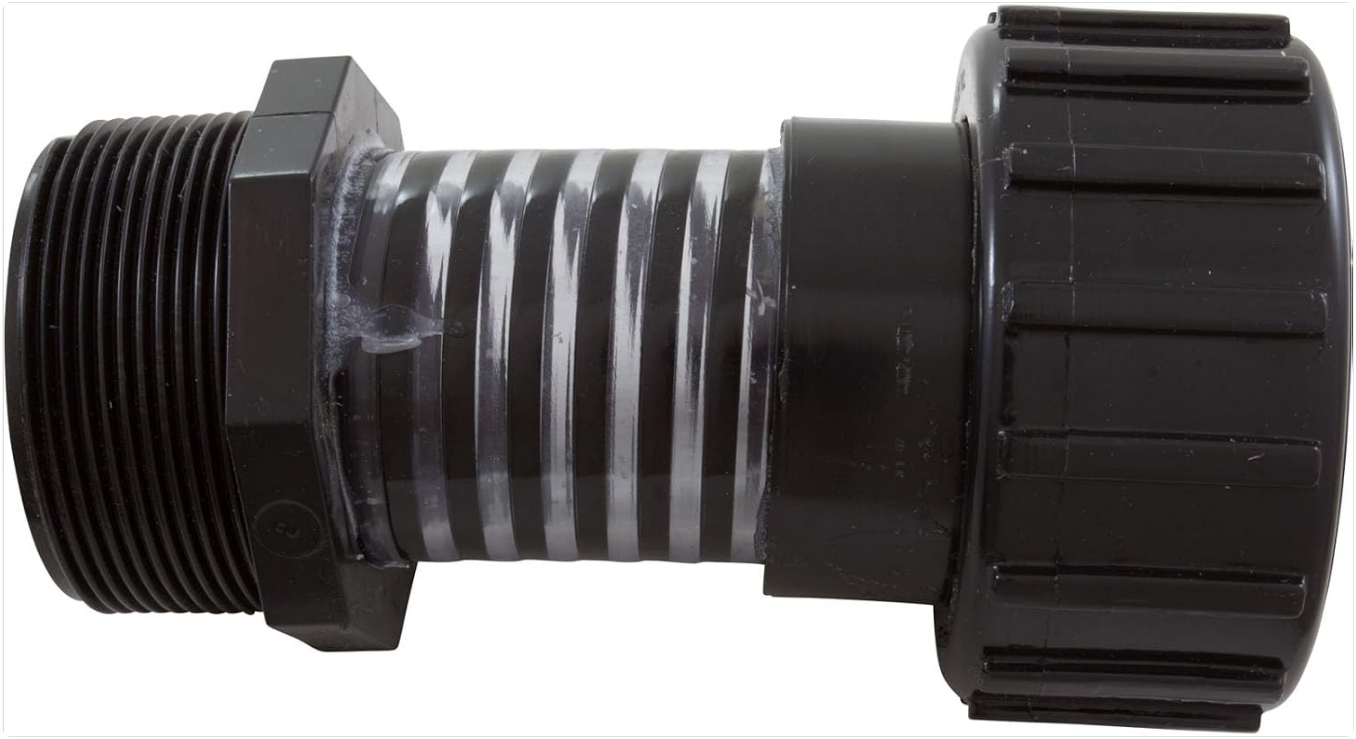


Figure 3: Top view of the hose connection assembly, illustrating its full length. This perspective provides a clear view of the entire assembly, including the central flexible section and the robust threaded connectors on either side.

Operating Principles

The Pentair 155403 JWP Hose Connection Assembly functions as a conduit, ensuring the efficient and sealed transfer of water from the JWB pump to the D.E. filter. Once properly installed, it requires no direct user operation. Its primary role is to maintain a continuous and leak-free flow path within the pool or spa filtration circuit.

- **Water Flow:** Facilitates the movement of water from the pump to the filter for purification.
- **Pressure Integrity:** Designed to withstand typical operating pressures of pool and spa filtration systems, preventing leaks and maintaining system efficiency.
- **Compatibility:** Specifically engineered for seamless integration with Pentair Sta-Rite PLD and PLM D.E. filters and JWB pumps.

Maintenance

Regular inspection of the hose connection assembly is crucial for the longevity and efficiency of your pool or spa filtration system. While the assembly itself requires minimal maintenance, periodic checks are recommended.

- **Visual Inspection:** Periodically inspect the entire assembly for any signs of wear, cracks, kinks, or damage. Pay close attention to the threaded connections for any signs of stress or deterioration.
- **Leak Checks:** Regularly check for any water leaks around the connection points. Even small drips can indicate a developing issue.
- **Cleaning:** If the exterior of the assembly becomes dirty, wipe it down with a damp cloth. Avoid using harsh chemicals that could degrade the plastic material.
- **Storage (if removed):** If the assembly is removed for winterization or other reasons, store it in a clean, dry place away from direct sunlight and extreme temperatures to prevent material degradation.

Troubleshooting

Most issues related to the hose connection assembly are minor and can be resolved with simple checks.

Problem	Possible Cause	Solution
Water Leak at Connection Points	Loose connection, damaged O-ring/gasket, cracked fitting.	Turn off pump. Tighten connections. Inspect and replace O-rings/gaskets if worn. If fitting is cracked, the assembly needs replacement.
Reduced Water Flow	Obstruction within the hose, severe kink (unlikely for this rigid part), or issues with pump/filter.	Turn off pump. Disconnect and inspect the interior of the assembly for debris. Ensure the assembly is not kinked or bent in a way that restricts flow. Check pump and filter for blockages.
Visible Damage (Cracks, Fissures)	Physical impact, material fatigue, exposure to harsh chemicals or UV.	The assembly must be replaced immediately to prevent system failure and water loss.

Specifications

Key specifications for the Pentair 155403 JWP Hose Connection Assembly:

- **Model Number:** 155403
- **Manufacturer:** Pentair
- **Product Dimensions:** 8.1 x 6.8 x 5.5 inches
- **Item Weight:** 4 ounces
- **ASIN:** B008GT7HLC
- **Compatibility:** Pentair Sta-Rite PLD and PLM aboveground pool/spa D.E. filters, JWB pumps.

Warranty and Support

For detailed warranty information and customer support regarding the Pentair 155403 JWP Hose Connection Assembly, please refer to the official Pentair website or contact Pentair customer service directly. Warranty terms and conditions may vary and are subject to the manufacturer's policies at the time of purchase.
Pentair Official Website: www.pentair.com

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