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Jabsco 17937-0001-P

Jabsco 17937-0001-P Neoprene Impeller User Manual

Model: 17937-0001-P | Brand: Jabsco

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Jabsco 17937-0001-P Neoprene Impeller. This impeller is designed for use in various marine and industrial pumping applications, ensuring efficient fluid transfer. Regular inspection and replacement are crucial for maintaining optimal pump performance and preventing system failures.

The Jabsco 17937-0001-P is a Neoprene impeller with a Type 7 drive, 10 blades, 2-9/16 inch diameter, 2 inch width, and a 5/8 inch shaft with a brass insert. It is a critical component for self-priming flexible impeller pumps.



Figure 1: Jabsco 17937-0001-P Neoprene Impeller. This image shows the black neoprene impeller with its 10 flexible blades and a central brass insert for shaft connection.

2. Installation

Proper installation of the impeller is vital for pump efficiency and longevity. Always refer to your pump's specific service manual for detailed instructions. The following provides general guidance for impeller replacement:

1. **Preparation:** Ensure the pump system is de-pressurized and drained. Disconnect power to the pump to prevent accidental operation.
2. **Access:** Remove the end cover screws of the pump body to access the impeller chamber. Carefully remove the end cover and gasket.
3. **Impeller Removal:** The old impeller can be removed by gripping its hub with a Jabsco Impeller Removal Tool or channel lock pliers. *Avoid using screwdrivers or other sharp objects* as they can damage the pump body face, leading to leaks.
4. **Inspection:** Inspect the pump chamber for any debris or damage. Clean the chamber thoroughly.
5. **New Impeller Installation:** Lubricate the new impeller with water or a suitable non-petroleum lubricant. Align the impeller keyway with the pump shaft key and slide the impeller onto the shaft. Ensure the blades are oriented correctly for the pump's rotation direction.
6. **Gasket and Cover:** Install a new gasket (if applicable) and reattach the end cover, tightening the screws evenly to

ensure a proper seal.

7. **Testing:** Reconnect power and test the pump for proper operation and absence of leaks.

For a detailed installation guide, please refer to the official Jabsco Installation Manual (PDF) available here.

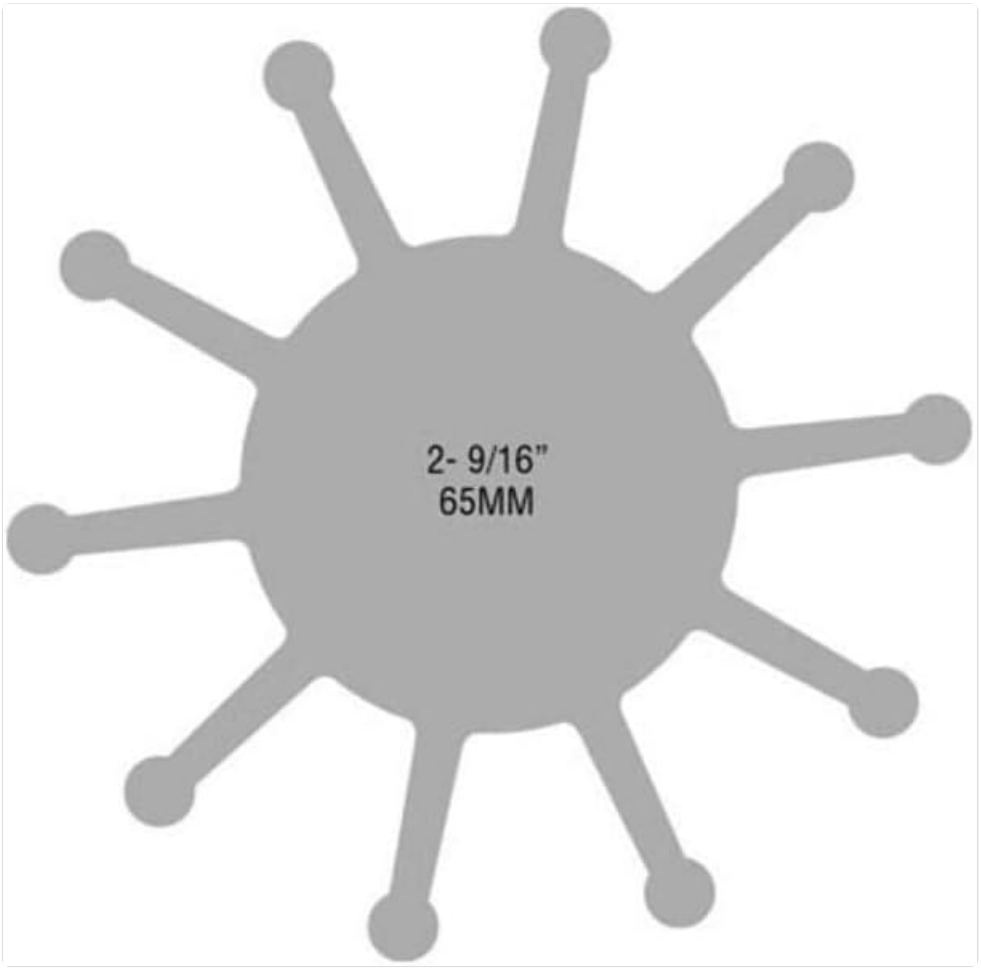


Figure 2: Impeller Dimensions Diagram. This diagram illustrates the impeller's diameter (2-9/16" or 65mm) and blade configuration, crucial for ensuring compatibility.

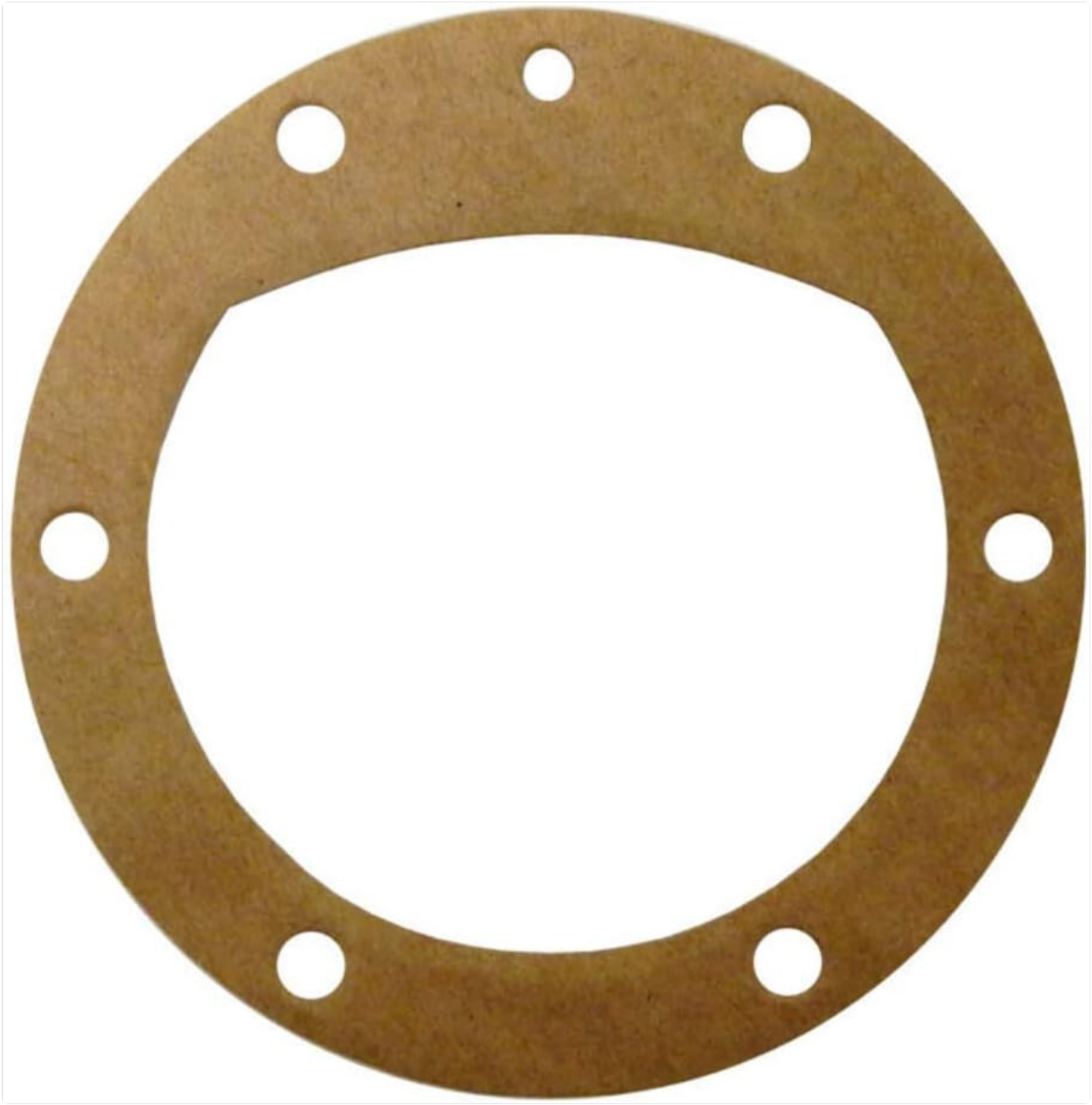


Figure 3: Pump Gasket. A new gasket is often required during impeller replacement to ensure a watertight seal for the pump's end cover.

3. Operation

The Jabsco Neoprene Impeller is a key component in flexible impeller pumps, which are known for their self-priming capabilities and ability to handle various fluids, including those with suspended solids. Once properly installed, the impeller's flexible blades create a vacuum as they rotate within the pump housing, drawing fluid into the pump and then expelling it.

Ensure that the pump is always operated with fluid flowing through it. Running a flexible impeller pump dry, even for short periods, can cause rapid wear and damage to the impeller and pump seals due to friction and heat generation.

4. Maintenance

Regular maintenance of your impeller is crucial for extending the life of your pump and ensuring reliable performance. Neoprene impellers are durable but are subject to wear over time, especially when pumping abrasive fluids or operating in high-temperature environments.

- **Inspection Frequency:** Inspect the impeller periodically, typically at the beginning of each season for marine applications, or every 200-500 operating hours for industrial use, depending on the application and fluid type.
- **Signs of Wear:** Look for cracks, tears, or hardening of the impeller blades. Also, check for any signs of separation between the blades and the hub. A worn impeller may lead to reduced flow, loss of prime, or pump cavitation.
- **Replacement:** Replace the impeller at the first sign of significant wear or damage. It is also recommended to carry a spare impeller, especially for critical applications.
- **Storage:** If the pump is to be stored for an extended period, especially in freezing conditions, it is advisable to remove the impeller to prevent it from sticking to the pump housing or becoming deformed. Store the impeller in a cool, dry place away from direct sunlight and chemicals.

5. Troubleshooting

This section addresses common issues related to impeller performance. For comprehensive pump troubleshooting, consult your pump's specific manual.

Problem	Possible Cause	Solution
Pump not priming or losing prime	Worn or damaged impeller blades; Air leak in suction line; Clogged suction filter.	Inspect and replace impeller; Check all suction line connections for leaks; Clean suction filter.
Reduced flow or pressure	Worn impeller; Obstruction in pump or lines; Incorrect pump speed.	Replace impeller; Clear obstructions; Verify correct pump operating speed.
Excessive noise or vibration	Damaged impeller; Bearing failure; Cavitation due to restricted flow.	Inspect and replace impeller; Check pump bearings; Ensure adequate fluid supply to pump.
Water leaking from pump shaft seal	Damaged shaft seal; Impeller not seated correctly.	Replace shaft seal; Reinstall impeller ensuring proper seating.

6. Specifications

Key technical specifications for the Jabsco 17937-0001-P Neoprene Impeller:

Brand: Jabsco

Model Name: 17937-0001-P

Material: Neoprene

Drive System: Type 7

Number of Blades: 10

Diameter: 2-9/16 inches (65mm)

Width: 2 inches

Shaft Size: 5/8 inch

Insert Material: Brass

Item Weight: 1.6 ounces (approx. 0.045 kg)

Package Dimensions: 7.48 x 4.45 x 3.07 inches (L x W x H)

UPC: 753317731098, 671880570749, 671880014045

7. Warranty Information

The Jabsco 17937-0001-P Neoprene Impeller is covered by a manufacturer's warranty. For specific details regarding warranty terms, conditions, and duration, please refer to the documentation provided with your original purchase or contact Jabsco customer support directly. The warranty typically covers defects in materials and workmanship under normal use.

8. Customer Support

For further assistance, technical inquiries, or to purchase genuine Jabsco replacement parts, please contact Jabsco customer support or visit their official website. You can also find more information and products at the Jabsco Store on Amazon.

When contacting support, please have your product model number (17937-0001-P) and any relevant purchase information readily available.

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