Hayward 3200SA

Hayward SPX3200SA Shaft Seal Assembly Instruction Manual

1. Introduction

This manual provides essential information for the installation, maintenance, and troubleshooting of the Hayward SPX3200SA Shaft Seal Assembly. This component is designed for specific Hayward pump models to ensure proper sealing and efficient operation.





Image Description: This image displays the two primary components of the Hayward SPX3200SA Shaft Seal Assembly. The top component is a white ceramic ring encased in a black rubber gasket. The bottom component is a spring-loaded seal with a metallic spring and a black rubber sealing surface, designed to create a watertight seal around the pump shaft.

2. Safety Information

Always adhere to the following safety guidelines when handling or installing pump components:

- **Disconnect Power:** Before any installation or maintenance, ensure the pump's power supply is completely disconnected at the circuit breaker.
- **Read Instructions:** Familiarize yourself with all instructions before beginning work.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as gloves and eye protection.
- **Professional Assistance:** If you are unsure about any step, consult a qualified pool professional.
- **Proper Tools:** Use only the correct tools for the job to prevent damage to the product or injury.

3. Compatible Pump Models

The Hayward SPX3200SA Shaft Seal Assembly is compatible with the following Hayward pump series and models:

Hayward TriStar Pump Series:

- SP3200EE, SP3200X, SP3600

- Models: SP3205EE, SP3207EE, SP3210EE, SP3215EE, SP3220EE, SP322063EEV, SP3230EE, SP3250EE, SP323063EE, SP3205X7, SP3207X10, SP3210X15, SP3215X20, SP3220X25, SP3225X30, SP36075EE, SP36120EE

Hayward NorthStar Pump Series:

- SP4000, SP4000X
- Models: SP4005(NS), SP4007(NS), SP4010(NS), SP4015(NS), SP4020(NS), SP4030(NS), SP4007X10(NS), SP4010X15(NS)/2(NS), SP4015X20(NS)/2(NS), SP4020X25(NS)/2(NS), SP4025X30(NS)

Hayward EcoStar Pump Models:

- SP3400VSPVR, SP3400VSP

4. Installation Instructions

This section outlines the general procedure for replacing a shaft seal assembly. Specific pump models may have slight variations. Always refer to your pump's specific manual for detailed disassembly and reassembly instructions.

Tools and Materials Needed:

- Screwdrivers (Phillips and flathead)
- Wrenches (adjustable or specific sizes for pump bolts)
- Pliers
- New Hayward SPX3200SA Shaft Seal Assembly
- Silicone lubricant (non-petroleum based, safe for rubber)
- Clean rags

Step-by-Step Replacement:

1. **Disconnect Power:** Turn off all power to the pump at the main circuit breaker. Verify power is off using a voltage tester.
2. **Drain Pump:** Close any necessary valves and drain the pump housing.
3. **Disassemble Pump:** Remove the motor from the pump housing. This typically involves removing bolts that secure the motor to the wet end. Carefully separate the impeller and diffuser from the motor shaft.
4. **Remove Old Seal:** The old shaft seal consists of two parts: a ceramic seat (usually pressed into the seal plate) and a spring-loaded rotating member (on the motor shaft). Carefully remove both parts. Note their orientation for correct installation of the new seal.
5. **Clean Surfaces:** Thoroughly clean the seal plate and motor shaft where the new seal components will be installed. Remove any debris, corrosion, or old gasket material.
6. **Install New Ceramic Seat:** Lightly lubricate the rubber portion of the new ceramic seat with silicone lubricant. Press the ceramic seat firmly and evenly into the seal plate, ensuring the polished ceramic surface faces outwards (towards the impeller). Do not touch the polished surface with bare hands.
7. **Install New Spring-Loaded Member:** Lightly lubricate the rubber boot of the spring-loaded seal. Slide this component onto the motor shaft with the spring facing the motor and the carbon face facing outwards (towards the ceramic seat). Ensure it slides smoothly without damaging the rubber.
8. **Reassemble Pump:** Carefully reassemble the pump components in reverse order of disassembly. Ensure all gaskets and O-rings are properly seated and lubricated. Tighten all bolts securely but do not overtighten.
9. **Test for Leaks:** Once reassembled, slowly open valves and prime the pump. Start the pump and carefully check for any leaks around the seal plate area.

5. Maintenance

Proper maintenance extends the life of your shaft seal and pump:

- **Regular Inspection:** Periodically inspect the area around the pump shaft for any signs of water leakage.
- **Prevent Dry Running:** Never allow the pump to run dry, as this can quickly damage the shaft seal due to lack of lubrication and cooling.
- **Chemical Balance:** Maintain proper pool water chemistry. Imbalanced water can corrode pump components and degrade seal materials.
- **Winterization:** Follow proper winterization procedures for your pump to prevent freezing damage to the seal.

6. Troubleshooting

If you encounter issues after installing the shaft seal, refer to the table below:

Problem	Possible Cause	Solution
Water Leakage at Seal Plate	• Improper installation of seal components • Damaged seal during installation • Seal plate not seated correctly • Pump running dry	• Re-check installation steps, ensure components are correctly oriented and seated. • Inspect seal for cracks or tears; replace if damaged. • Ensure all bolts are tightened evenly and the seal plate is flush. • Verify pump is primed and has sufficient water flow.
Pump Noise/Vibration	• Seal rubbing incorrectly • Motor bearing issue (unrelated to seal)	• Ensure seal components are properly aligned and lubricated. • If noise persists and is not related to the seal, consult a pump technician.

7. Specifications

Feature	Detail
Brand	Hayward
Model Number	SPX3200SA (3200SA)
Material	Stainless Steel, Rubber, Ceramic
Color	Black, White (Ceramic)
Item Weight	2 Pounds (approximate)
Compatibility	Hayward TriStar, NorthStar, and EcoStar pump series (refer to Section 3 for specific models)

8. Warranty and Support

For information regarding product warranty or technical support, please refer to the official Hayward website or contact

Hayward customer service directly. Keep your purchase receipt as proof of purchase.

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.

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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.

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