Hayward SPX3000AA

Hayward SPX3000AA Pump Housing and Strainer Replacement Manual

Model: SPX3000AA | Brand: Hayward

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Hayward SPX3000AA Pump Housing and Strainer. This component is a direct replacement part designed for specific Hayward Super II pump series models. Please read these instructions thoroughly before proceeding with installation or maintenance.

2. Safety Information

- Always disconnect power to the pump at the circuit breaker before attempting any service or maintenance.
- Ensure the pump system is depressurized before opening the housing or strainer.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, during installation and maintenance.
- If you are unsure about any part of the installation or repair process, consult a qualified pool service professional.
- Keep children and pets away from the work area.

3. Product Overview

The Hayward SPX3000AA is a genuine replacement pump housing and strainer assembly for Hayward Super II series pumps. It is designed to ensure proper water flow and filtration for your pool system.

3.1. Compatibility

This replacement part is compatible with the following Hayward Super II pump models:

- SP3000 series: SP3007(EEAZ), SP3010(EEAZ), SP3015(EEAZ), SP3020(EEAZ), SP3025(EEAZ), SP3030(EEAZ)
- SP3000X series: SP3005X7(AZ), SP3007X10(AZ), SP3010X15(AZ), SP3015X20(AZ), SP3020X25(AZ), SP3025X30(AZ)

3.2. Dimensions and Weight

- **Measures:** 1-1/2 by 1-1/2-inch (inlet/outlet pipe size)
- **Product Dimensions:** Approximately 12.5"L x 12.5"W
- **Item Weight:** 7 pounds

Image 1: Hayward SPX3000AA Pump Housing and Strainer. This image shows the complete pump housing and strainer assembly, highlighting its robust construction and design.

4. INSTALLATION (REPLACEMENT PROCEDURE)

Follow these general steps for replacing the pump housing and strainer. Specific pump models may have slight variations.

1. **Prepare the Pump:**

    - Turn off all power to the pump at the main circuit breaker.
    - Close any valves leading to and from the pump to prevent water flow.
    - Open the drain plugs on the pump and filter to drain water from the system.

2. **Disconnect Plumbing:**

    - Loosen and remove the union nuts or fittings connecting the plumbing pipes to the existing pump housing.

- Carefully move the pipes away from the pump.

3. **Remove Old Housing:**

   - Locate and remove any bolts or clamps securing the pump housing to the pump motor assembly.
   - Carefully separate the old housing and strainer from the motor. Note the orientation of any gaskets or O-rings.

4. **Inspect and Clean:**

   - Clean any debris or old gasket material from the motor face where the new housing will attach.
   - Inspect the motor shaft and impeller for any damage.

5. **Install New Housing:**

   - Apply a thin layer of silicone-based lubricant to new O-rings or gaskets (if supplied or required) and place them correctly.
   - Carefully align the new SPX3000AA pump housing and strainer with the pump motor assembly.
   - Secure the housing to the motor using the appropriate bolts or clamps, tightening them evenly to ensure a proper seal.

6. **Reconnect Plumbing:**

   - Reconnect the plumbing pipes to the new housing, ensuring all connections are tight and leak-free. Use thread sealant if necessary for threaded connections.

7. **Prime and Test:**

   - Open the valves to the pump.
   - Remove the strainer lid and fill the strainer basket area with water to prime the pump. Replace the lid securely.
   - Restore power to the pump at the circuit breaker and turn on the pump.
   - Check for any leaks around the new housing and plumbing connections.

5. OPERATION

Once installed, the pump housing and strainer function as an integral part of your pool pump system. The strainer basket within the housing collects debris before it reaches the pump impeller, protecting the pump and ensuring efficient water circulation. Ensure the strainer lid is always securely fastened during pump operation.

6. MAINTENANCE

Regular maintenance of the pump housing and strainer is crucial for optimal pump performance and longevity.

- **Strainer Basket Cleaning:**

  - Turn off the pump and close all valves.
  - Unscrew the strainer lid and remove the basket.
  - Empty any collected debris and rinse the basket thoroughly with water.
  - Inspect the basket for cracks or damage. Replace if necessary.
  - Inspect the strainer lid O-ring for cracks or wear. Lubricate with a silicone-based lubricant or replace if damaged.
  - Reinsert the clean basket, replace the O-ring, and securely fasten the lid.

- **Housing Inspection:** Periodically inspect the pump housing for any signs of cracks, leaks, or damage.

Address any issues promptly to prevent further system problems.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Water leaking from strainer lid	Damaged or improperly seated O-ring; loose lid.	Inspect, clean, lubricate, or replace O-ring. Ensure lid is tightened securely.
Water leaking from housing connections	Loose plumbing connections; damaged gaskets/unions.	Tighten connections. Inspect and replace gaskets or union fittings if damaged.
Reduced water flow / Pump losing prime	Clogged strainer basket; air leak in suction line or housing.	Clean strainer basket. Check all connections for air leaks and tighten. Ensure pump is properly primed.
Visible crack in housing	Physical damage; freeze damage.	The housing must be replaced.

8. SPECIFICATIONS

- **Model Number:** SPX3000AA
- **Brand:** Hayward
- **Compatibility:** Hayward Super II Pump SP3000 and SP3000X series models
- **Inlet/Outlet Size:** 1-1/2 by 1-1/2-inch
- **Material:** Stainless Steel or PVC
- **Weight:** 7 pounds
- **UPC:** 610377041140

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Hayward SPX3000AA Pump Housing and Strainer, please contact Hayward customer service directly. Refer to the original pump manual or Hayward's official website for detailed warranty terms and contact information.

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