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Pentair 356012

Pentair 356012 Almond Seal Plate Replacement Pool and Spa Inground Pump Instruction Manual

Model: 356012

Brand: Pentair

1. Product Overview

The Pentair 356012 Almond Seal Plate is a replacement component designed for use with Pentair SuperFlo and Pentair Pinnacle high-flow inground pool and spa pumps. This seal plate is crucial for maintaining the integrity of your pump's wet end, preventing leaks, and ensuring efficient operation. It features a durable construction and an almond color, matching the aesthetic of compatible pump models. The dimensions of the seal plate are approximately 8.5 inches in length, 2.5 inches in height, and 8.5 inches in width.

Figure 1.1: Front view of the Pentair 356012 Almond Seal Plate. This image displays the primary face of the seal plate, showing the central opening for the impeller shaft and various mounting points.

Figure 1.2: Top-down view of the front of the Pentair 356012 Almond Seal Plate. This perspective highlights the circular design and the precise cutouts for pump components.

2. Installation Instructions

Proper installation of the seal plate is essential for the safe and efficient operation of your pool or spa pump. If you are unsure about any step, consult a qualified pool technician.

2.1 Safety Precautions

- Always disconnect all electrical power to the pump at the circuit breaker before beginning any installation or maintenance.
- Ensure the pump is drained and depressurized before disassembly.

- Wear appropriate personal protective equipment, such as gloves and eye protection.

2.2 Required Tools

- Screwdrivers (Phillips and flathead)
- Wrenches or socket set
- O-ring lubricant (silicone-based)
- Clean rags

2.3 Installation Steps

1. **Prepare the Pump:** Turn off power and close all valves to isolate the pump. Drain the pump completely.
2. **Disassemble the Pump:** Carefully remove the pump housing, diffuser, and impeller to access the old seal plate. Refer to your specific pump model's manual for detailed disassembly instructions.
3. **Remove Old Seal Plate:** Once accessible, unbolt or unclip the old seal plate and remove it. Inspect the pump housing for any debris or damage.
4. **Clean Surfaces:** Thoroughly clean all mating surfaces on the pump housing where the new seal plate will sit. Remove any old gasket material or debris.
5. **Install New Seal Plate:** Apply a thin layer of O-ring lubricant to any O-rings on the new seal plate or in the pump housing that will seal against the plate. Carefully position the new Pentair 356012 Almond Seal Plate, ensuring it is correctly aligned with the pump housing and mounting holes.
6. **Secure the Seal Plate:** Fasten the new seal plate using the original hardware. Tighten bolts evenly and according to the torque specifications in your pump's manual to ensure a proper seal without over-tightening.
7. **Reassemble Pump:** Reinstall the impeller, diffuser, and pump housing in reverse order of disassembly. Ensure all components are correctly seated and secured.
8. **Test for Leaks:** Open the valves, prime the pump, and restore power. Carefully inspect the pump for any leaks around the newly installed seal plate. Address any leaks immediately by re-checking connections and O-rings.



Figure 2.1: Back view of the Pentair 356012 Almond Seal Plate. This view shows the structural ribs and mounting points on the reverse side of the plate.



Figure 2.2: Top-down view of the back of the Pentair 356012 Almond Seal Plate. This image provides a clear perspective of the internal structure and reinforcement of the component.

3. Operation

Once the Pentair 356012 Almond Seal Plate is correctly installed, it functions as an integral part of your pool or spa pump's wet end. Its primary role is to provide a sealed barrier, separating the pump's motor from the water flow and ensuring that the impeller operates within a contained environment. There are no specific operational steps for the seal plate itself, as its function is passive and continuous as long as the pump is running. Ensure your pump is properly primed and operating according to its manufacturer's guidelines after installation of the seal plate.

4. Maintenance

Regular inspection and maintenance of your pump components, including the seal plate, can extend the life of your equipment and prevent costly repairs.

- **Visual Inspection:** Periodically inspect the seal plate for any signs of cracks, warping, or wear, especially during

routine pump maintenance or when the pump is disassembled.

- **O-Ring Condition:** If the seal plate utilizes O-rings for sealing, ensure they are pliable and free from nicks or flattening. Replace worn O-rings as needed and lubricate them with a silicone-based lubricant during reassembly.
- **Cleanliness:** Keep the area around the seal plate clean and free of debris that could compromise the seal or cause damage.
- **Proper Torque:** When reassembling the pump, ensure all fasteners securing the seal plate are tightened to the manufacturer's specified torque to prevent leaks and ensure proper component alignment.

5. Troubleshooting

If you encounter issues after installing the Pentair 356012 Almond Seal Plate, refer to the following troubleshooting guide:

Issue	Possible Cause	Solution
Water leaking from pump housing around the seal plate.	• Seal plate not seated correctly. • Damaged or improperly lubricated O-ring/gasket. • Fasteners not tightened sufficiently or unevenly. • Crack in the seal plate.	• Disconnect power, drain pump, and re-seat the seal plate. • Inspect and replace O-rings/gaskets if damaged; apply silicone lubricant. • Ensure fasteners are tightened evenly to manufacturer specifications. • If cracked, the seal plate must be replaced.
Pump losing prime or not building pressure.	• Air leak around the seal plate. • Impeller obstruction or damage.	• Check for leaks around the seal plate as described above. • Inspect impeller for debris or damage; clear any obstructions.

6. Technical Specifications

- **Model Number:** 356012
- **Part Number (ASIN):** B004UHC1XI
- **Brand:** Pentair
- **Product Dimensions:** 8.5 x 8.5 x 2.5 inches
- **Item Weight:** 1.6 pounds
- **Color:** Almond
- **Compatibility:** Pentair SuperFlo pool and spa inground pumps, Pentair Pinnacle high flow inground pumps
- **Material:** Durable plastic composite

7. Warranty Information

This Pentair product is covered by a manufacturer's warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the documentation included with your original pump or visit the official Pentair website. Retain your proof of purchase for warranty claims.

8. Customer Support

For technical assistance, replacement parts, or any questions regarding your Pentair 356012 Almond Seal Plate, please contact Pentair Customer Service. You can find contact information and additional resources on the official Pentair website or through their authorized dealers. For product information and other Pentair offerings, you may also visit the Pentair Store on Amazon.

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