

Pentair 350090

Pentair 350090 Cam and Ramp Clamp Replacement Instruction Manual

For SuperFlo Inground Pool/Spa Pumps

INTRODUCTION

This manual provides instructions for the installation and maintenance of the Pentair 350090 Cam and Ramp Clamp. This component is designed as a direct replacement part for Pentair SuperFlo Inground Pool and Spa Pumps, ensuring a secure seal for the pump's lid.

The Pentair 350090 clamp is crucial for maintaining the integrity of your pump's filtration system, preventing leaks and ensuring optimal performance. Proper installation and care will extend the life of your pump and its components.

PRODUCT OVERVIEW

The Pentair 350090 is a cam and ramp clamp specifically engineered for SuperFlo Inground Pool and Spa Pumps. It measures approximately 13 inches in length, 1.25 inches in height, and 12 inches in width, and weighs about 1.28 ounces. This clamp secures the pump lid, which typically includes a clear cover and an O-ring (not included with this replacement clamp).



Figure 1: Top view of the Pentair 350090 Cam and Ramp Clamp. This image shows the circular design with two extended handles for gripping and the internal cam and ramp mechanism for securing the pump lid.



Figure 2: Bottom view of the Pentair 350090 Cam and Ramp Clamp. This perspective highlights the underside of the clamp, showing the grooves and structure that engage with the pump housing and lid.

INSTALLATION INSTRUCTIONS

Follow these steps to replace the cam and ramp clamp on your Pentair SuperFlo pump. Ensure the pump is turned off and disconnected from power before beginning any maintenance.

1. **Safety First:** Turn off the pump at the circuit breaker and disconnect all power. Relieve any pressure in the system before attempting to open the pump.
2. **Remove Old Clamp:** Carefully remove the existing cam and ramp clamp. If it is broken, remove all

fragments.

3. **Inspect Lid and O-Ring:** Inspect your pump's clear lid and O-ring for any signs of wear, cracks, or damage. This replacement part includes only the clamp; the lid and O-ring must be reused from your existing pump or replaced separately if damaged.
4. **Install Lid and O-Ring:** Ensure the O-ring is properly seated around the pump lid. Place the lid onto the pump housing, aligning it correctly.
5. **Position New Clamp:** Place the new Pentair 350090 Cam and Ramp Clamp over the pump lid and housing. Ensure it sits flush and evenly around the entire circumference.
6. **Secure the Clamp:** Rotate the clamp clockwise until it is firmly seated and the lid is securely held in place. The cam and ramp mechanism will create a tight seal. Do not overtighten, but ensure it is snug enough to prevent leaks.
7. **Check for Leaks:** Once the clamp is installed, restore power to the pump and turn it on. Carefully observe the pump lid area for any signs of water leaks. If leaks occur, turn off the pump, relieve pressure, and re-adjust the clamp or inspect the O-ring and lid for proper seating.

Note: Always refer to your specific Pentair SuperFlo pump's original manual for detailed instructions on pump disassembly and reassembly, especially regarding pressure relief and electrical safety.

MAINTENANCE

To ensure the longevity and proper function of your Pentair 350090 Cam and Ramp Clamp and your SuperFlo pump, consider the following maintenance tips:

- **Regular Inspection:** Periodically inspect the clamp for any signs of cracks, warping, or damage. Replace immediately if any damage is observed to prevent pump failure or leaks.
- **O-Ring Care:** The O-ring (not included with this clamp) is critical for a watertight seal. Inspect it regularly for dryness, cracks, or flattening. Lubricate the O-ring with a silicone-based lubricant designed for pool equipment to keep it pliable and ensure a good seal.
- **Winterization:** During freezing weather, ensure your pump is properly drained to prevent water from freezing and expanding, which can cause damage to the clamp and other pump components.
- **Cleaning:** Keep the clamp and the area around the pump lid clean from debris, dirt, and chemical residue that could degrade the material over time.

TROUBLESHOOTING

If you encounter issues after replacing the cam and ramp clamp, refer to the following common problems and solutions:

- **Water Leakage from Pump Lid:**
 - Ensure the clamp is fully and evenly tightened.
 - Check the O-ring for proper seating, damage, or dryness. Replace the O-ring if necessary.
 - Inspect the pump lid for cracks or warping. Replace the lid if damaged.
- **Air Entering the Pump (Loss of Prime):**
 - A loose or improperly seated clamp can allow air to be drawn into the pump. Re-tighten the clamp.
 - Verify the O-ring is in good condition and correctly positioned.
 - Check other pump connections for air leaks.

- **Clamp Does Not Fit:**

- Confirm that the pump model is a Pentair SuperFlo Inground Pool/Spa Pump. This clamp is specifically designed for these models.
- Verify the part number 350090 matches the required replacement part for your pump.

SPECIFICATIONS

Part Number	350090
Compatible Pumps	Pentair SuperFlo Inground Pool and Spa Pumps
Dimensions (L x W x H)	13 x 12 x 1.25 inches
Item Weight	1.28 ounces
Material	Durable plastic
Manufacturer	Pentair
Item Model Number	PEN350090Z

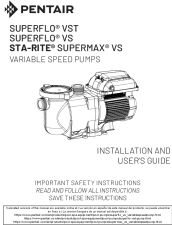

WARRANTY AND SUPPORT


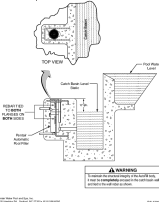



Information regarding specific warranty terms for the Pentair 350090 Cam and Ramp Clamp is not provided in this document. For warranty details, technical support, or further assistance, please contact Pentair customer service or refer to the official Pentair website.

You can often find additional resources and contact information on the [Pentair Store on Amazon](#) or the main Pentair corporate website.

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Related Documents - 350090

 <p>PENTAIR SUPERFLO® VST SUPERFLO® VS STA-RITE® SUPERMAX® VS VARIABLE SPEED PUMPS INSTALLATION AND USER'S GUIDE IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p>	<p>Pentair SuperFlo VST, VS, SuperMax VS Variable Speed Pumps Installation and User Guide</p> <p>Comprehensive installation and user guide for Pentair SuperFlo VST, SuperFlo VS, and Sta-Rite SuperMax VS variable speed pool pumps. Includes safety, electrical, operation, maintenance, and troubleshooting information.</p>
 <p>PENTAIR PENTAIR HOME FOR PROWLER® 930W ROBOTIC INGROUND POOL CLEANER USER'S GUIDE IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p>	<p>Pentair Home Prowler 930W Robotic Inground Pool Cleaner User's Guide</p> <p>Comprehensive user's guide for the Pentair Home Prowler 930W robotic inground pool cleaner, covering setup, operation, safety, and app integration.</p>

<p>PENTAIR</p> <p>KREEPY KRAULY® KRUISER™ INGROUND SUCTION POOL CLEANER</p>  <p>INSTALLATION AND USER'S GUIDE</p> <p>IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p>	<p>Pentair Kreepy Krauly Kruiser Inground Suction Pool Cleaner Installation and User's Guide</p> <p>Comprehensive installation, operation, maintenance, and troubleshooting guide for the Pentair Kreepy Krauly Kruiser inground suction pool cleaner. Learn how to set up, use, and maintain your pool cleaner for optimal performance.</p>
<p>Pentair Water Paraflo</p> <p>AUTOMATIC POOL FILLER MODEL T40-FN VANISHING EDGE</p>  <p>INSTALLATION AND USER'S GUIDE</p> <p>IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p>	<p>Pentair T40-FN Automatic Pool Filler for Vanishing Edge Pools - Installation Guide</p> <p>Learn about the Pentair T40-FN Automatic Pool Filler, designed for vanishing edge pools. This guide provides installation details and safety warnings for ensuring proper integration with catch basins and rebar.</p>
<p>PENTAIR</p> <p>SUPERFLO® HIGH PERFORMANCE PUMP</p>  <p>INSTALLATION AND USER'S GUIDE</p> <p>IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p>	<p>Pentair SuperFlo High Performance Pool Pump: Installation and User's Guide</p> <p>Comprehensive installation, operation, maintenance, and troubleshooting guide for the Pentair SuperFlo High Performance Pool Pump. Includes safety instructions, parts list, and performance curves.</p>
<p>PENTAIR</p> <p>PROWLER® 930W ROBOTIC INGROUND POOL CLEANER</p>  <p>INSTALLATION AND MAINTENANCE GUIDE</p> <p>IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p> 	<p>Pentair Prowler 930W Robotic Pool Cleaner: Installation and Maintenance Guide</p> <p>A comprehensive guide for the Pentair Prowler 930W Robotic Inground Pool Cleaner, covering installation, operation, maintenance, safety instructions, and troubleshooting.</p>