

Pentair 150040

Pentair Air Relief Tube 150040 Instruction Manual

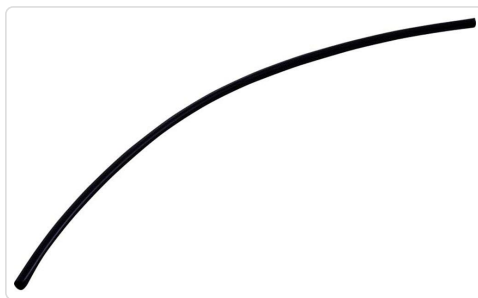
For Pentair Triton II TR50 and TR60 Pool and Spa Sand Filters

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Pentair Air Relief Tube, model 150040. This component is specifically designed for use with Pentair Triton II TR50 and TR60 pool and spa sand filters manufactured after November 1999. Adhering to these instructions will help ensure the longevity and optimal performance of your pool filtration system.

2. PRODUCT OVERVIEW

The Pentair Air Relief Tube 150040 is a critical component in the air relief system of compatible Pentair sand filters. Its primary function is to allow trapped air to escape from the filter tank during startup and operation, preventing air pockets that can impede water flow and reduce filtration efficiency. This tube measures approximately 18 inches in length and has a diameter of 1/4 inch.



An image showing the black, flexible Pentair Air Relief Tube, model 150040, designed for pool and spa sand filters.

3. SAFETY INFORMATION

Always observe basic safety precautions when installing or servicing pool equipment. Failure to do so could result in serious injury or property damage.

- **Disconnect Power:** Always turn off the main power to the pool pump and filter system at the circuit breaker before performing any service or maintenance.
- **Depressurize System:** Ensure the filter system is completely depressurized before opening any valves or removing components. Open the air relief valve on top of the filter until all pressure is released.
- **Read Instructions:** Familiarize yourself with the entire filter system's manual before attempting any

repairs or replacements.

- **Use Proper Tools:** Use appropriate tools for the task to prevent damage to components or injury.

4. SETUP AND INSTALLATION

This section outlines the general procedure for replacing an existing air relief tube. Refer to your specific Pentair Triton II filter manual for detailed diagrams and component locations.

Required Tools:

- Screwdriver (if applicable for filter clamp)
- Pliers or wrench (if applicable for fittings)

Installation Steps:

1. **Prepare the System:** Turn off the pool pump and disconnect power at the circuit breaker. Open the manual air relief valve on the filter to release all internal pressure.
2. **Drain Filter (if necessary):** If the filter tank needs to be opened, ensure it is drained according to your filter's manual.
3. **Access the Tube:** Depending on your filter model, you may need to remove the filter lid or access port to reach the air relief tube connection point.
4. **Remove Old Tube:** Carefully disconnect the old air relief tube from its fitting. Note its orientation and how it was routed within the filter.
5. **Install New Tube:** Insert the new Pentair Air Relief Tube 150040 into the designated fitting. Ensure it is securely seated. The tube should extend into the filter tank to allow air to rise and escape effectively.
6. **Secure Connections:** If any clamps or fittings were loosened, tighten them appropriately to prevent leaks.
7. **Reassemble Filter:** Close and secure the filter lid or access port according to the manufacturer's instructions.
8. **Restart System:** Ensure all valves are in the correct position. Turn on the pool pump. Open the manual air relief valve on the filter until a steady stream of water emerges, then close it. Check for any leaks.

5. OPERATING PRINCIPLE

The air relief tube operates passively within the filter system. As water enters the filter tank, any trapped air naturally rises. The air relief tube provides a clear path for this air to travel upwards and exit through the filter's air relief valve, preventing air from becoming trapped in the filter media or pump. This ensures continuous, efficient water flow and proper filtration.

6. MAINTENANCE

Regular inspection of the air relief tube is recommended to ensure proper function.

- **Visual Inspection:** Periodically inspect the tube for signs of wear, cracks, kinks, or blockages. A damaged or obstructed tube can prevent proper air relief.
- **Cleaning:** If the tube appears dirty or clogged with debris, carefully remove it (following the installation steps in reverse, ensuring the system is depressurized) and clean it with water. Reinstall securely.
- **Replacement:** If the tube is brittle, cracked, or severely damaged, replace it with a genuine Pentair 150040 Air Relief Tube to maintain system integrity.

7. TROUBLESHOOTING

Issues related to the air relief tube often manifest as problems with air in the pool system.

Common Symptoms and Solutions:

- **Air Bubbles from Return Jets:** This indicates air is entering the system. While often due to leaks on the suction side, a faulty or blocked air relief tube can prevent air from escaping the filter, leading to it being pushed back into the pool. Inspect the air relief tube for blockages or damage.
- **Filter Not Priming:** If the pump struggles to prime or loses prime frequently, trapped air in the filter tank can be a cause. Ensure the air relief tube is clear and properly installed, allowing air to escape when the manual air relief valve is opened.
- **High Filter Pressure:** While less common for an air relief tube issue, severe air pockets can sometimes contribute to unusual pressure readings. Ensure the tube is not kinked or blocked.

If troubleshooting these steps does not resolve the issue, consult a qualified pool professional.

8. SPECIFICATIONS

Attribute	Detail
Model Number	150040
Product Type	Air Relief Tube
Brand	Pentair
Compatibility	Pentair Triton II TR50 and TR60 Sand Filters (manufactured after 11/99)
Dimensions (L x W x H)	18 x 0.25 x 0.25 inches
Item Weight	0.64 ounces
Material	Flexible tubing






9. WARRANTY INFORMATION

Pentair products are manufactured to high-quality standards. For specific warranty details regarding the Pentair Air Relief Tube 150040, please refer to the warranty documentation included with your original Pentair Triton II filter or visit the official Pentair website. Warranty terms and conditions may vary.

10. SUPPORT

If you require further assistance with the installation, operation, or troubleshooting of your Pentair Air Relief Tube or your Pentair Triton II filter system, please contact Pentair Customer Support or consult a certified pool technician.

- **Pentair Official Website:** www.pentair.com
- **Customer Service:** Refer to the Pentair website for regional contact information.

 <p>PENTAIR TRITON® FIBERGLASS SAND FILTER MODELS: TR 40, TR 50, TR 60, TR 80, TR 100, TR 120, TR 140C, TR 100HD, TR 100C, TR 140C-3, TR 100C-3 and TR 40 with CLEARFLO TECHNOLOGY®</p> <p>INSTALLATION AND USER'S GUIDE</p> <p>IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p>	<p>Pentair Triton Fiberglass Sand Filter Installation and User's Guide</p> <p>Comprehensive installation, operation, maintenance, and troubleshooting guide for Pentair Triton II, C, C-3, and HD fiberglass sand filters, covering models TR40 through TR140C-3.</p>
 <p>PENTAIR TRITON® FIBERGLASS SAND FILTER MODELS: TR 40, TR 50, TR 60, TR 80, TR 100, TR 120, TR 140C, TR 100HD, TR 100C, TR 140C-3, TR 100C-3 and TR 40 with CLEARFLO TECHNOLOGY®</p> <p>INSTALLATION AND USER'S GUIDE</p> <p>IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p>	<p>Pentair Triton Fiberglass Sand Filter Installation and User's Guide</p> <p>Comprehensive guide for installing, operating, and maintaining Pentair Triton Fiberglass Sand Filters. Covers safety, troubleshooting, and replacement parts for models TR40 through TR140C-3.</p>
 <p>PENTAIR TRITON® NEO SAND FILTER MODELS: TR 40, TR 50, TR 60, TR 80, TR 100, TR 120, TR 140C, TR 100HD, TR 100C, TR 140C-3, TR 100C-3 and TR 40 with CLEARFLO TECHNOLOGY®</p> <p>INSTALLATION AND USER'S GUIDE</p> <p>IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p>	<p>Pentair Triton® Neo Sand Filter: Operating Manual, Installation & Maintenance Guide</p> <p>Comprehensive guide for the Pentair Triton® Neo Sand Filter, covering installation, operation, cleaning, maintenance, troubleshooting, and chemical resistance. Includes safety instructions and product specifications.</p>
 <p>PENTAIR POOL CLEAN & CLEAR PLUS CARTRIDGE FILTER How to safely service in four key steps:</p> <ol style="list-style-type: none">1. Lock and disconnect all of the system's power and water supply.2. Release the pressure in the system by opening the air release valve.3. Remove the filter element from the filter housing.4. Clean the filter element and reinstall it in the filter housing. <p>IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p>	<p>How to Safely Service Pentair Clean & Clear Plus Cartridge Filter in Four Key Steps</p> <p>A guide to safely servicing the Pentair Clean & Clear Plus Cartridge Filter, outlining four essential steps for proper maintenance and operation to prevent injury and damage. Includes critical safety warnings regarding high pressure systems.</p>
 <p>PENTAIR CLEAN AND CLEAR® PLUS CARTRIDGE FILTER INSTALLATION AND USER'S GUIDE</p> <p>IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS SAVE THESE INSTRUCTIONS</p>	<p>Pentair Clean and Clear Plus Cartridge Filter: Installation and User's Guide</p> <p>Comprehensive installation, operation, and maintenance guide for the Pentair Clean and Clear Plus Cartridge Filter. Includes safety instructions, troubleshooting, technical data, and replacement parts information.</p>



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