

Zodiac R0552300

Zodiac R0552300 Diverter Replacement Kit Instruction Manual

For Zodiac Never Lube Backwash Valve Models BWVL-NVL, 8034J, 8034

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1. INTRODUCTION

This manual provides detailed instructions for the installation and maintenance of the Zodiac R0552300 Diverter Replacement Kit. This kit is specifically designed for use with select Zodiac Never Lube backwash valve models, including BWVL-NVL, 8034J, and 8034. Proper installation and care will ensure optimal performance and longevity of your pool's filtration system.



Image 1.1: Components of the Zodiac R0552300 Diverter Replacement Kit, showing the diverter shaft, top diverter assembly, and bottom diverter assembly.

2. SAFETY INFORMATION

Always observe basic safety precautions when installing or servicing pool equipment. Failure to follow these instructions could result in injury or property damage.

- **Disconnect Power:** Always turn off all power to the pump and filter system before attempting any installation or maintenance.
- **Read Instructions:** Read and understand all instructions completely before beginning installation.
- **Professional Installation:** If you are unsure about any part of the installation process, consult a qualified pool service professional.
- **Use Proper Tools:** Ensure you have the correct tools for the job to prevent damage to components.
- **Wear Protective Gear:** Wear appropriate personal protective equipment, such as safety glasses and gloves.

3. PACKAGE CONTENTS

The Zodiac R0552300 Diverter Replacement Kit includes the following components:

- Diverter Shaft
- Top Diverter Assembly
- Bottom Diverter Assembly

Important Note: This kit does NOT include O-rings for the shaft and valve cover plates. These must be purchased separately to ensure a proper seal and prevent leaks. Refer to your specific backwash valve model's parts list for the correct O-ring kit (e.g., for model 8034J).

4. INSTALLATION

This section outlines the general steps for replacing the diverter in your Zodiac Never Lube backwash valve. Always refer to your specific valve model's manual for detailed diagrams and instructions.

1. Prepare the System:

- Turn off the pool pump and any other associated equipment.
- Close all necessary valves to isolate the backwash valve and prevent water flow.
- If possible, drain any water from the backwash valve housing.

2. Remove Old Diverter:

- Carefully remove the top cover or handle assembly of the backwash valve, typically by unscrewing retaining bolts or clamps.
- Extract the old diverter shaft and its associated assemblies from the valve body. Note the orientation of the components for reassembly.
- Inspect the valve body for any debris or damage and clean as necessary.

3. Install New O-rings (Sold Separately):

- Before installing the new diverter components, ensure you have the correct replacement O-rings for your valve model.
- Apply a silicone-based lubricant (pool-grade) to all new O-rings to facilitate installation and ensure a watertight seal.
- Install the O-rings onto the diverter shaft and into the valve cover plates as per your valve's specific instructions.

4. Assemble New Diverter Kit:

- Assemble the new diverter shaft, top diverter assembly, and bottom diverter assembly according to the original configuration.
- Ensure all components are correctly aligned and seated.

5. Insert New Diverter:

- Carefully insert the assembled new diverter into the backwash valve body.
- Ensure it slides smoothly and seats properly. Do not force it.

6. Reassemble Valve:

- Replace the top cover or handle assembly, ensuring all bolts or clamps are tightened securely and evenly.
- Do not overtighten, as this can damage the plastic components.

7. Test for Leaks:

- Slowly open the isolation valves to allow water back into the system.
- Turn on the pool pump and carefully inspect the backwash valve for any signs of leaks around the diverter assembly.
- If leaks are present, turn off the pump, relieve pressure, and re-check the O-ring installation and component seating.

5. OPERATION OVERVIEW

The diverter kit is an internal component of your Zodiac Never Lube backwash valve. Its primary function is to direct water flow within the valve to different ports, enabling various modes of operation for your pool filter, such as filter, backwash, rinse, waste, and closed. Once installed, the diverter operates in conjunction with the valve handle to select the desired function. Ensure the handle is fully engaged in each position to prevent partial flow or damage.

6. MAINTENANCE

Regular maintenance helps extend the life of your diverter and backwash valve.

- **Inspect O-rings:** Periodically inspect the O-rings for cracks, wear, or flattening. Replace them as needed, typically every 1-3 years depending on usage and chemical exposure.
- **Lubrication:** Apply a thin coat of silicone-based lubricant to the diverter shaft O-rings annually or whenever the valve is serviced.
- **Cleanliness:** Keep the area around the backwash valve clean and free of debris.
- **Proper Handle Use:** Always ensure the pump is off before changing the position of the backwash valve handle to prevent damage to the diverter and valve internals.

7. TROUBLESHOOTING

If you encounter issues after installing the diverter kit, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Water Leaking from Valve Handle Area	Damaged or improperly seated shaft O-rings.	Turn off pump, relieve pressure. Inspect and replace shaft O-rings. Ensure proper lubrication.
Water Leaking from Valve Body Seams	Damaged or improperly seated cover plate O-rings.	Turn off pump, relieve pressure. Inspect and replace cover plate O-rings. Ensure proper lubrication and even tightening of bolts/clamps.
Improper Water Flow / Valve Not Changing Modes	Diverter not fully seated or damaged; debris obstructing diverter movement.	Turn off pump, relieve pressure. Disassemble and inspect the diverter for proper assembly and seating. Clear any debris from the valve body. Ensure the handle is fully engaged in each position.
Difficulty Moving Valve Handle	Lack of lubrication on O-rings; O-rings swollen or damaged.	Turn off pump, relieve pressure. Lubricate shaft O-rings. If problem persists, inspect and replace O-rings.

If troubleshooting steps do not resolve the issue, contact a qualified pool service professional or Zodiac customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	R0552300
Compatibility	Zodiac Never Lube Backwash Valve Models BWVL-NVL, 8034J, 8034
Material	Plastic
Product Dimensions (L x W x H)	6 x 4 x 6 inches
Item Weight	8 ounces
Inlet Connection Size	4 Inches
Inlet Connection Type	Female Iron Pipe
Outlet Connection Size	4 Inches
Outlet Connection Type	Compression
Number of Ports	2
Certifications	NSF, WRAS

9. WARRANTY & SUPPORT

Warranty Information: Specific warranty terms and conditions for the Zodiac R0552300 Diverter Replacement Kit are provided by Zodiac. Please refer to the official Zodiac website or contact your authorized dealer for detailed warranty coverage and registration information.

Customer Support: For technical assistance, replacement parts, or further inquiries, please contact Zodiac customer service through their official website or the contact information provided with your original product purchase. When contacting support, please have your product model number (R0552300) and purchase details readily available. You can find more information and support resources on the official Zodiac website:www.zodiac.com

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