

[Manuals.plus](#) /

› [Baldwin](#) /

› Baldwin BA5374 Spin-on Air Dryer Desiccant Cartridge Filter Instruction Manual

Baldwin BA5374

Baldwin BA5374 Spin-on Air Dryer Desiccant Cartridge Filter Instruction Manual

Model: BA5374

Brand: Baldwin

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Baldwin BA5374 Spin-on Air Dryer Desiccant Cartridge Filter. This filter is designed for heavy-duty applications, compatible with WABCO System Saver 1000 & 12000 and Bendix AD-SP and AD-IS Air Dryers. It ensures proper equipment operation by preventing moisture and contaminants from entering the air brake system, thereby slowing down premature parts wear.



Image shows the red Baldwin BA5374 spin-on filter cartridge next to its metallic base with filtration holes and a separate black O-ring. The filter is clearly labeled 'BALDWIN FILTERS BA5374'.

SAFETY INFORMATION

Always follow safety precautions when working with vehicle air systems. Compressed air can be dangerous. Ensure the vehicle's air system is depressurized before attempting any installation or maintenance. Wear appropriate personal

protective equipment (PPE), including safety glasses and gloves. Refer to the vehicle manufacturer's service manual for specific safety procedures.

PACKAGE CONTENTS

- Baldwin BA5374 Spin-on Air Dryer Desiccant Cartridge Filter
- Replacement O-ring (typically included with the filter)

SPECIFICATIONS

Feature	Value
Model Number	BA5374
Thread Size	M39 x 1.5
Outside Diameter	5-1/2" (139.7 mm)
Length	6-9/16" (166.7 mm)
Type	Spin-on Air Dryer Desiccant Cartridge Filter
Exterior Finish	Painted
Replaces Part Numbers	109994, R950011, 24374, 5008414PG, 2032389, 2992261, 4C452A131AA, 89040662, T250W, TB1374x, PFA5693, LFP8654, Z316

INSTALLATION INSTRUCTIONS

Preparation

1. Park the vehicle on a level surface and engage the parking brake.
2. Ensure the vehicle's air system is completely depressurized. This may involve draining air tanks.
3. Locate the existing air dryer filter cartridge.

Removal of Old Filter

4. Using an appropriate filter wrench, carefully loosen and remove the old filter cartridge by turning it counter-clockwise.
5. Be prepared for a small amount of residual air or moisture to escape. Collect any spilled fluids and dispose of them properly.
6. Remove and discard the old O-ring from the filter housing.

Installation of New Filter

7. Clean the filter housing mounting surface thoroughly to ensure a proper seal.
8. Lubricate the new O-ring with a thin film of clean engine oil or silicone grease. Place the O-ring onto the new Baldwin BA5374 filter cartridge.
9. Thread the new filter cartridge onto the filter housing by hand. Turn clockwise until the O-ring contacts the sealing surface.
10. Once the O-ring contacts the sealing surface, tighten the filter an additional 3/4 to 1 full turn. Do not overtighten, as this can damage the filter or housing.

Post-Installation Check

11. Start the vehicle and allow the air system to build pressure.
12. Check for any air leaks around the newly installed filter. Apply a soapy water solution to the seal area; bubbles indicate a leak.
13. If leaks are detected, re-check the installation and tighten slightly if necessary, or replace the O-ring if damaged.

OPERATION

The Baldwin BA5374 desiccant cartridge filter operates passively within the vehicle's air brake system. Its primary function is to remove moisture and oil contaminants from compressed air before it enters the air tanks and other components. No direct user interaction is required for its operation once correctly installed.

MAINTENANCE

Regular replacement of the air dryer desiccant cartridge is crucial for maintaining the efficiency and longevity of your vehicle's air brake system. The replacement interval can vary based on vehicle usage, operating conditions, and manufacturer recommendations. Consult your vehicle's service manual for specific replacement schedules.

Disposal

Dispose of used filter cartridges in accordance with local environmental regulations. Used filters may contain oil and other contaminants.

TROUBLESHOOTING

- **Air Leaks Around Filter:** Ensure the filter is tightened correctly (3/4 to 1 full turn after O-ring contact). Check the O-ring for proper seating and damage. Replace if necessary.
- **Excessive Moisture in Air System:** If moisture is still present in the air tanks after filter replacement, it may indicate an issue with the air dryer's regeneration cycle or other components. Consult a qualified mechanic.
- **Reduced Air System Performance:** A severely clogged filter can restrict airflow. If air system performance degrades, inspect the filter and replace if overdue.

WARRANTY INFORMATION

Specific warranty details for the Baldwin BA5374 filter are typically provided by the manufacturer or seller at the time of purchase. Please retain your proof of purchase for any warranty claims. General warranty covers manufacturing defects under normal use conditions.

SUPPORT

For technical assistance or further inquiries regarding the Baldwin BA5374 filter, please contact your product supplier or an authorized Baldwin Filters distributor. Always refer to your vehicle's service manual for system-specific information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B0DT7D9FR3>

More documents and user manuals: <https://manuals.plus/>