AMES 4000B

AMES 4000B 1 1/4" - 1 1/2" First Check Repair Kit Instruction Manual

Model: 4000B | Part Number: 7016639

Introduction

This instruction manual provides detailed guidance for the installation and maintenance of the AMES 4000B Complete First Check Repair Kit. This kit is designed for 1 1/4 inch to 1 1/2 inch AMES 4000B series backflow preventers, ensuring proper function and extending the lifespan of your valve with genuine original parts. All components are manufactured from high-quality materials to meet factory specifications.

Safety Information

- Always depressurize the system and shut off water supply before attempting any repairs or maintenance.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure you have the correct tools for the job.
- If you are unsure about any step, consult a qualified plumbing professional.
- Keep all parts out of reach of children.

Kit Contents

The AMES 4000B Complete First Check Repair Kit typically includes all necessary components for servicing the first check valve assembly. Please verify all parts are present upon opening the package.



Image: Components of the AMES 4000B First Check Repair Kit. This image displays the various seals, springs, and other parts included in the kit for repairing the first check valve assembly of an AMES 4000B backflow preventer.

Preparation for Repair

1. **Isolate the Backflow Preventer:** Close the upstream and downstream shut-off valves to isolate the backflow preventer from the main water supply.
2. **Depressurize the System:** Open the test cocks on the backflow preventer to relieve any trapped pressure within the device. Ensure all water has drained.
3. **Gather Tools:** Have appropriate wrenches, screwdrivers, and a clean work surface ready.

First Check Repair Procedure

Follow these steps carefully to replace the first check components:

1. **Remove Access Cover:** Carefully unbolt or unscrew the access cover for the first check valve assembly. Note the orientation of the cover and any gaskets.
2. **Extract Old Components:** Remove the existing first check disc, spring, and any other internal components. Inspect the valve body for any debris or damage.
3. **Clean Valve Body:** Thoroughly clean the interior of the valve body where the first check assembly sits. Remove any scale, dirt, or old gasket material.
4. **Install New Components:** Using the new parts from the repair kit, carefully install the new spring, disc, and any associated seals. Ensure all components are seated correctly and in the proper orientation. Refer to the original assembly for guidance if necessary.
5. **Replace Gasket and Cover:** Install a new gasket (if provided) and reattach the access cover. Tighten bolts or screws evenly to ensure a watertight seal. Do not overtighten.

Post-Installation Check

1. **Slowly Restore Water Supply:** Gradually open the upstream shut-off valve to allow water to re-enter the backflow preventer.
2. **Purge Air:** Slowly open the downstream shut-off valve and any downstream fixtures to purge air from the system.
3. **Inspect for Leaks:** Carefully check all repaired areas for any signs of leaks.

4. **Test Functionality:** It is recommended to have the backflow preventer tested by a certified technician after any repair to ensure it is functioning correctly and meeting all regulatory requirements.

Maintenance

Regular maintenance and inspection are crucial for the reliable operation of your backflow preventer. While this kit provides replacement parts for the first check, the overall device should be:

- Inspected annually by a certified backflow technician.
- Protected from freezing temperatures.
- Kept free from debris and obstructions.

Troubleshooting

If issues arise after installing the repair kit, consider the following:

- **Continuous Drip/Leak from Test Cock:** This may indicate that the first check valve is not seating properly. Re-check installation of the disc and spring for correct orientation and ensure no debris is preventing a seal.
- **Water Hammer:** If water hammer occurs after repair, ensure air has been fully purged from the system.
- **Visible Leaks from Cover:** Indicates an improper seal. Ensure the gasket is correctly seated and the cover bolts are tightened evenly.

For persistent issues, contact a qualified plumbing professional.

Specifications

Manufacturer	Ames
Part Number	7016639
Item Weight	6.4 ounces
Item Package Quantity	1
Compatible Valve Size	1 1/4 inch to 1 1/2 inch

Manufacturer Information

This product is a genuine factory replacement part from AMES. For further assistance or inquiries, please refer to the official AMES website or contact their customer support.