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› Rain Bird Replacement Solenoid Kit for PGA, PEB, and PESB Valves (Model 236239)

Rain Bird 236239

Rain Bird Replacement Solenoid Kit for PGA, PEB, and PESB Valves (Model 236239)

Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Rain Bird Replacement Solenoid Kit, Model 236239. This kit is designed for use with Rain Bird PGA, PEB, EFB-CP, BPE/BPES, and GB series irrigation valves. It includes the solenoid handle, the plunger/spring assembly, and an adapter assembly, facilitating the repair and replacement of existing solenoids.

2. PRODUCT OVERVIEW

The Rain Bird Replacement Solenoid Kit (Model 236239) is a critical component for maintaining the functionality of your irrigation system's valves. It ensures proper opening and closing of the valve, controlled by your irrigation controller.

2.1 Kit Components

- **Solenoid Handle:** Used for manual operation and attachment.
- **Plunger/Spring Assembly:** The core electromagnetic component responsible for valve actuation.
- **Adapter Assembly:** Connects the solenoid to the valve body.

2.2 Product Image



Image 1: Rain Bird Replacement Solenoid Kit. This image displays the complete kit, including the solenoid handle, plunger/spring assembly, and adapter assembly, ready for installation.

3. SETUP AND INSTALLATION

Before beginning installation, ensure the main water supply to the irrigation system is turned off to prevent water flow and potential injury. Gather necessary tools such as a screwdriver and wire strippers.

3.1 Replacing the Solenoid

1. **Turn off Water Supply:** Locate and close the main shut-off valve for your irrigation system.
2. **Locate the Valve:** Identify the irrigation valve requiring solenoid replacement.
3. **Disconnect Wiring:** Carefully disconnect the two wires leading to the old solenoid. Note which wire connects to the common wire (usually white) and which connects to the zone wire.
4. **Remove Old Solenoid:** Unscrew the old solenoid from the valve body by turning it counter-clockwise. Be prepared for a small amount of water to escape.
5. **Inspect Valve:** Check the valve body for any debris or damage. Clean if necessary.
6. **Install New Solenoid:** Screw the new Rain Bird solenoid (Model 236239) into the valve body clockwise until hand-tight. Do not overtighten.
7. **Connect Wiring:** Connect the two wires from the new solenoid to the irrigation system's common and zone wires. It does not matter which solenoid wire connects to which system wire, as solenoids are not polarity-sensitive. Ensure connections are secure and waterproof using appropriate connectors.
8. **Restore Water Supply:** Slowly open the main water shut-off valve. Check for leaks around the newly installed solenoid.
9. **Test System:** Activate the corresponding zone from your irrigation controller to ensure the valve opens and closes correctly.

4. OPERATING INSTRUCTIONS

The solenoid operates automatically in conjunction with your irrigation controller. It can also be operated manually for testing or specific watering needs.

4.1 Automatic Operation

Once installed and wired correctly, the solenoid will receive electrical signals from your irrigation controller. When a signal is sent, the solenoid's plunger will lift, allowing water pressure to open the valve. When the signal stops, the plunger drops, and water pressure closes the valve.

4.2 Manual Operation

To manually open the valve:

- Locate the solenoid on the valve.
- Turn the solenoid handle approximately a quarter to a half turn counter-clockwise. You should hear water begin to flow.

To manually close the valve:

- Turn the solenoid handle clockwise until it is hand-tight. The water flow should stop.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and reliable operation of your Rain Bird solenoid and irrigation system.

- **Periodic Inspection:** Annually inspect the solenoid and its wiring for any signs of wear, corrosion, or damage.
- **Clean Connections:** Ensure electrical connections are clean and free of dirt or moisture. Replace waterproof connectors if they show signs of degradation.
- **Check for Leaks:** Regularly check around the valve and solenoid for any water leaks. Address leaks promptly to prevent water waste and potential damage.
- **Winterization:** In regions subject to freezing temperatures, ensure your irrigation system, including solenoids and valves, is properly winterized to prevent freeze damage. Consult your irrigation system's main manual for specific winterization procedures.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your solenoid.

Problem	Possible Cause	Solution
Valve does not open automatically.	<ul style="list-style-type: none"> No power to solenoid. Faulty wiring connection. Solenoid plunger stuck or damaged. Controller malfunction. 	<ul style="list-style-type: none"> Check controller programming and power supply. Inspect wiring for breaks or loose connections. Manually operate the valve. If it opens, the solenoid or wiring may be faulty. Test solenoid resistance with a multimeter (typically 20-60 ohms). Replace if outside range.
Valve does not close.	<ul style="list-style-type: none"> Debris in valve. Solenoid plunger stuck open. Diaphragm issue (not solenoid related). 	<ul style="list-style-type: none"> Manually close the valve. If it closes, the solenoid may be stuck. Turn off water, remove solenoid, and check for debris around the plunger. If the issue persists, inspect the valve's diaphragm.
Water leaks from solenoid.	<ul style="list-style-type: none"> Solenoid not tightened properly. Damaged O-ring or threads. 	<ul style="list-style-type: none"> Ensure solenoid is hand-tightened securely. Inspect the O-ring and threads on the solenoid and valve body for damage. Replace if necessary.

7. SPECIFICATIONS

Feature	Detail
Model Number	236239
Compatibility	Rain Bird PGA, PEB, EFB-CP, BPE/BPES, and GB Valves
Product Dimensions	0.02 x 4 x 5 inches
Item Weight	4.8 ounces
Manufacturer	Rain Bird
ASIN	B003KPJLR0

8. WARRANTY AND SUPPORT

For specific warranty information regarding your Rain Bird Replacement Solenoid Kit (Model 236239), please refer to the documentation provided with your original purchase or visit the official Rain Bird website. Warranty terms and conditions may vary.

For technical support, additional product information, or to purchase genuine Rain Bird parts, please visit the Rain Bird Store on Amazon or the official Rain Bird corporate website.