

Rain Bird 3504-PC

Rain Bird 3504-PC Part Circle Rotor Pop-Up Sprinkler Instruction Manual

Model: 3504-PC

Brand: Rain Bird

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Rain Bird 3504-PC Part Circle Rotor Pop-Up Sprinkler. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your sprinkler system.

2. SAFETY INFORMATION

Please observe the following safety precautions during installation and operation:

- Install and maintain the sprinkler only according to the instructions provided in this manual.
- Avoid contact with moving parts of the sprinkler during operation.
- Ensure the sprinkler is connected properly to the irrigation system to prevent leaks and accidents.
- Always turn off the water supply before performing any maintenance or adjustments.

3. PRODUCT OVERVIEW

3.1 Product Features

- Includes Nozzle Tree for various spray patterns and distances.
- 4-inch Pop-Up height for effective watering over turf.
- Part of the 3500 Series Mini Rotor line, known for reliability.

3.2 Components

The Rain Bird 3504-PC rotor consists of a durable plastic body, a pop-up stem, a nozzle housing, and an internal

drive mechanism. The nozzle tree provides a selection of nozzles to customize the spray pattern and distance.





Image 1: The Rain Bird 3504-PC Part Circle Rotor Pop-Up Sprinkler, showing its compact design and pop-up mechanism.

4. SETUP AND INSTALLATION

4.1 Before Installation

- **Tools Required:** Shovel, pipe wrench, Teflon tape, wire cutters (if applicable), and a flat-head screwdriver for adjustments.
- **Water Pressure:** Ensure your irrigation system has adequate water pressure for optimal sprinkler performance. Refer to the specifications section for recommended pressure ranges.

4.2 Step-by-Step Installation

1. **Digging the Trench:** Dig a trench from your main irrigation line to the desired sprinkler location. The trench should be deep enough to allow the top of the sprinkler to be flush with the ground when installed.
2. **Connecting to Irrigation Line:** Connect the sprinkler to the lateral irrigation line using appropriate fittings. Apply Teflon tape to threaded connections to ensure a watertight seal.
3. **Setting the Sprinkler Head:** Place the sprinkler head in the trench, ensuring the top of the sprinkler is level with the ground surface. Backfill the trench, compacting the soil around the sprinkler.
4. **Flushing the System:** Before attaching the nozzle, briefly turn on the water to flush out any debris from the pipes. Turn off the water, then install the desired nozzle from the nozzle tree.

5. OPERATING INSTRUCTIONS

5.1 Arc Adjustment (Part Circle)

The 3504-PC is a part-circle rotor, meaning its spray arc can be adjusted from a minimum to a maximum angle. To adjust the arc:

- Turn on the water supply to the sprinkler.
- Locate the arc adjustment screw on the top of the sprinkler head.
- Using a flat-head screwdriver, turn the screw clockwise to increase the arc or counter-clockwise to decrease it. Adjust until the desired spray pattern is achieved.

5.2 Radius Adjustment

The spray radius (distance) can be adjusted using two methods:

- **Nozzle Selection:** The included nozzle tree offers various nozzles with different flow rates and throw distances. Select the nozzle that best suits your coverage needs.
- **Radius Reduction Screw:** A radius reduction screw is located on the top of the nozzle housing. Turning this screw clockwise will push a pin into the water stream, reducing the spray distance. Do not turn the screw more than two full turns, as this can interfere with the spray pattern.

5.3 Nozzle Installation

To change or install a nozzle:

1. Turn off the water supply to the sprinkler.
2. Gently pull up the pop-up stem.
3. Use the Rain Bird rotor tool or a small flat-head screwdriver to remove the nozzle retention screw.
4. Carefully pull out the existing nozzle (if any).
5. Insert the desired nozzle into the nozzle housing, ensuring it is seated correctly.
6. Reinsert and tighten the nozzle retention screw.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your sprinkler system.

- **Cleaning:** Periodically inspect the sprinkler head for debris (grass clippings, dirt) that may obstruct the nozzle or interfere with the pop-up mechanism. Clean as needed.
- **Winterization:** In freezing climates, it is essential to winterize your irrigation system to prevent damage. Consult a local irrigation professional or refer to general winterization guidelines for your region.
- **Checking for Leaks:** Regularly inspect the area around the sprinkler head for signs of leaks. Address any leaks promptly to conserve water and prevent damage.

7. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Sprinkler not popping up fully	Low water pressure; Debris in riser; Soil compacted around head	Check system pressure; Clean debris from riser; Clear soil around head
Uneven spray pattern	Clogged nozzle; Incorrect nozzle installed; Radius reduction screw too far in	Clean or replace nozzle; Install correct nozzle; Back out radius reduction screw
Sprinkler not rotating	Low water pressure; Debris in drive mechanism; Damaged internal gears	Check system pressure; Flush system; Replace sprinkler head

Problem	Possible Cause	Solution
Water leaking from base of head	Loose connection; Damaged seal	Tighten connection; Replace sprinkler head

8. SPECIFICATIONS

Key technical specifications for the Rain Bird 3504-PC Part Circle Rotor Pop-Up Sprinkler:

Specification	Value
Brand	Rain Bird
Model	3504-PC
Material	Plastic
Pop-Up Height	4 inches
Style	Rotary
Item Dimensions (L x W x H)	0.01 x 1.75 x 6 inches
Item Weight	4.8 Ounces
Maximum Flow Rate	1.04 Cubic Meters Per Hour

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Specific warranty details are not provided within this instruction manual. For information regarding the warranty for your Rain Bird 3504-PC Part Circle Rotor Pop-Up Sprinkler, please refer to the product packaging or visit the official Rain Bird website.

9.2 Customer Support

For further assistance, technical support, or to purchase replacement parts, please visit the official Rain Bird website or contact their customer service department directly. Contact information can typically be found on the Rain Bird website or product packaging.

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

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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