Rain Bird CP3504-PC

Rain Bird 3500 Series Rotor Instruction Manual

Model: CP3504-PC

Introduction

The Rain Bird 3500 Series Rotor is a 1/2-inch gear-drive rotor designed for residential irrigation applications. It offers adjustable arc settings and convenient features for installation and maintenance. This manual provides detailed instructions for the setup, operation, and maintenance of your Rain Bird 3500 Series rotors.

Key Features

- **Adjustable Arc:** Easily adjust the watering arc from 40 degrees to 360 degrees using a flat-blade screwdriver.
- **Radius Reduction:** Allows up to 35% radius reduction without changing nozzles.
- **Rain Curtain Nozzles:** Includes a nozzle tree with six superior performing Rain Curtain nozzles for efficient water distribution.
- **Reversing Full and Part Circle:** Operates as both a full-circle and part-circle rotor in one unit.
- **Water-Lubricated Gear-Drive:** Ensures durable and reliable operation.
- **Easy Maintenance:** Features a nozzle removal function and an easily removable filter screen.
- **Quick Check Arc/Fast Forward:** For rapid arc verification.

Setup and Installation

Proper installation is crucial for optimal performance of your Rain Bird 3500 Series rotors. Follow these steps for setup:

1. **Prepare the Site:** Ensure the area for installation is clear and the irrigation lines are ready. The rotor connects to a 1/2-inch pipe thread.
2. **Connect the Rotor:** Thread the rotor onto the riser from your irrigation system. Hand-tighten first, then use a wrench to secure it, ensuring it is plumb.
3. **Install Nozzle:** The rotor comes with a nozzle tree. Select the appropriate nozzle for your desired spray pattern and distance. Insert the nozzle into the rotor head. Refer to the nozzle performance chart for guidance.
4. **Initial Arc Setting:** Before burying, perform a preliminary arc adjustment to ensure the rotor covers the intended area.

5. **Bury the Rotor:** Bury the rotor so that the top of the rotor head is flush with the ground level.



Image: Five Rain Bird 3500 Series rotors shown with included nozzle trees. These rotors are designed for easy installation and adjustment in residential irrigation systems.

Operating Instructions

The Rain Bird 3500 Series rotor offers simple adjustments for precise watering coverage.

Arc Adjustment (40° - 360°)

1. **Identify the Arc Adjustment Screw:** Locate the arc adjustment screw on the top of the rotor head. It typically has a plus (+) and minus (-) indicator.
2. **Adjust the Arc:** Use a flat-blade screwdriver to turn the arc adjustment screw.
   - Turn clockwise (+) to increase the arc.
   - Turn counter-clockwise (-) to decrease the arc.

   The rotor can be set for part-circle operation (40° to 359°) or full-circle (360°) operation. The rotor automatically reverses direction at the end of its set arc.
3. **Quick Check Arc:** The rotor allows for a quick check of the arc by manually rotating the turret to its limits.

Radius Adjustment

The radius adjustment screw allows you to reduce the watering distance by up to 35% without changing the installed nozzle.

- Locate the radius adjustment screw on the top of the rotor.
- Turn the screw clockwise to decrease the radius.
- Turn the screw counter-clockwise to increase the radius.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your Rain Bird 3500 Series rotors.

- **Filter Screen Cleaning:** The rotor features an easily removable filter screen at the base of the riser. Periodically remove and clean this screen to prevent debris from clogging the nozzle and affecting performance.

- **Nozzle Inspection:** Inspect nozzles for any blockages or damage. The nozzle removal feature allows for easy access.
- **Winterization:** In colder climates, ensure proper winterization procedures are followed to prevent freezing damage to the rotors and irrigation system. Consult local guidelines for winterization.

Troubleshooting

This section addresses common issues you might encounter with your Rain Bird 3500 Series rotors.

- **Rotor Not Rotating or Spraying Unevenly:**
  - **Cause:** Clogged filter screen or nozzle.
  - **Solution:** Turn off the water supply. Remove the rotor and clean the filter screen at the base. Inspect the nozzle for debris and clear any blockages.
  - **Cause:** Insufficient water pressure.
  - **Solution:** Verify that your irrigation system is operating at the recommended pressure for the 3500 Series rotors.
- **Nozzle Blowing Out:**
  - **Cause:** Nozzle not securely seated.
  - **Solution:** Ensure the nozzle is fully inserted and properly clicked into place within the rotor head.
  - **Cause:** Excessive water pressure.
  - **Solution:** Check system pressure. If too high, consider installing a pressure regulator.
- **Incorrect Arc Coverage:**
  - **Cause:** Arc adjustment screw not set correctly.
  - **Solution:** Refer to the "Operating Instructions" section and re-adjust the arc using a flat-blade screwdriver.

Specifications

Attribute	Value
Package Dimensions	7.13 x 6.5 x 5.59 inches
Item Weight	1.92 pounds
Manufacturer	Rainbird
ASIN	B07D9W7FJH
Adjustable Arc Range	40° - 360°
Inlet Size	1/2 inch NPT

Warranty and Support

For specific warranty information regarding your Rain Bird 3500 Series rotors, please refer to the documentation included with your purchase or visit the official Rain Bird website. For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact Rain Bird customer service directly.
You can find more information and contact details on the official Rain Bird store page: Rain Bird Store on Amazon.

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