Rain Bird F4-FC Falcon 6504 Series

Rain Bird F4-FC Falcon 6504 Series Full Circle Rotor Pop-up Sprinkler Instruction Manual

Model: F4-FC Falcon 6504 Series

Introduction

The Rain Bird Falcon 6504 Series Full Circle Rotor Pop-up Sprinkler is engineered for uncompromising performance, superior water distribution, reliability, and durability. Designed for large turf sites such as parks, athletic fields, cemeteries, schools, and commercial properties, this rotor provides efficient irrigation with spacing up to 65 feet (19.8 m). Its robust construction and advanced features ensure long-term protection and consistent operation.

Safety Information

Caution: High water pressure can cause injury. Always ensure proper installation and use the sprinkler as directed to prevent accidents and damage to the system.

Setup and Installation

Proper installation is crucial for the optimal performance of your Rain Bird Falcon 6504 rotor. This sprinkler is designed for underground installation within an irrigation system.

General Installation

- Dig a trench to the appropriate depth for your irrigation system, ensuring the top of the sprinkler head will be flush with the ground when retracted.
- Connect the sprinkler to the lateral line using appropriate fittings. Ensure all connections are watertight.
- Backfill the trench, compacting the soil around the sprinkler body to secure it in place.

Nozzle Installation

The Falcon 6504 utilizes Rain Curtain nozzles, designed to maximize performance and coverage. Nozzles are typically pre-installed or included separately. Ensure the correct nozzle is securely seated in the rotor head.

Pressure and Flow Considerations

This sprinkler operates optimally within a pressure range of 30-90 PSI and a flow rate of 2.9-21.7 Gallons per Minute. Verify your system's water pressure and flow rate are within these specifications for best results.



Image: The Rain Bird F4-FC Falcon 6504 Series Full Circle Rotor Pop-up Sprinkler, shown in its black, cylindrical pop-up form. The Rain Bird logo is visible on the side of the main body.

Operation

The Rain Bird Falcon 6504 Series is a full-circle rotor, meaning it is designed to spray water in a continuous 360-degree pattern. It does not have an adjustable arc setting and will always operate as a full-circle sprinkler.

Automatic Pop-up Function

When the irrigation system is activated and water pressure is supplied, the internal mechanism will cause the

sprinkler head to pop up from its housing. Once the water supply is turned off, the head will retract back into the ground, ensuring it is out of sight and protected from damage.

Maintenance

Regular maintenance helps ensure the longevity and efficient operation of your sprinkler system.

Debris Prevention

The Falcon 6504 features a multifunction wiper seal and a tapered riser. These components are designed to keep the stem clear of debris, providing long-term protection against dirt and grit that can impede performance.

Nozzle Cleaning

Periodically inspect the nozzle for any clogs or obstructions. If water distribution appears uneven, carefully remove the nozzle and clean any debris using a soft brush or water flush.

Winterization

In regions subject to freezing temperatures, it is essential to properly winterize your irrigation system. Any water remaining in the sprinkler head can freeze and cause damage or breakage. Consult your irrigation system's manual for specific winterization procedures, which typically involve blowing out the lines with compressed air or allowing for gravity drainage.

Troubleshooting

Refer to the following common issues and solutions before contacting support.

- **Sprinkler Not Popping Up:**
  Possible Causes: Low water pressure, debris obstructing the riser, or a damaged internal mechanism.
  Solutions: Verify system pressure is within the 30-90 PSI range. Check for clogs in the supply line or within the sprinkler body.
- **Uneven Water Distribution:**
  Possible Causes: Clogged nozzle, incorrect pressure, or damaged nozzle.
  Solutions: Clean the nozzle. Ensure water pressure is adequate. Replace the nozzle if damaged.
- **Water Leaking from Base:**
  Possible Causes: Damaged seal, loose connection, or cracked body.
  Solutions: Inspect the wiper seal for wear or damage and replace if necessary. Tighten all connections. If the body is cracked, the unit may need replacement.
- **Rotor Not Rotating:**
  Possible Causes: Debris inside the rotor, insufficient water flow, or worn gears.
  Solutions: Flush the system to clear debris. Confirm adequate water flow and pressure. If issues persist, internal components may be worn.

Specifications

Feature	Specification

Brand	Rain Bird
Model Number	F4FC
Color	Black
Material	Plastic
Style	Pop Up
Item Dimensions (L x W x H)	6 x 3 x 3 inches
Item Weight	15.2 ounces
Maximum Pressure	90 PSI (Pound per Square Inch)
Maximum Flow Rate	21.7 GPM (Gallons Per Minute)
UPC	739460011683
Number of Items	1

Warranty and Support

For specific warranty information or technical support regarding your Rain Bird F4-FC Falcon 6504 Series Full Circle Rotor Pop-up Sprinkler, please refer to the official Rain Bird website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.
You can visit the official Rain Bird store for more information:Rain Bird Store on Amazon

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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