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Rain Bird 8FC1

Rain Bird 8FC1 Spray Nozzle User Manual

360° Full Circle Pattern, 5'-8' Spray Distance

1. PRODUCT OVERVIEW

The Rain Bird 8FC1 Spray Nozzle is designed for efficient and uniform watering of your landscape. It features a 360° full circle spray pattern and an adjustable spray distance ranging from 5 to 8 feet. This nozzle is engineered for compatibility with all Rain Bird pop-up spray head sprinklers and is constructed from durable, UV and chemical-resistant materials for long-lasting performance. Its matched precipitation rate ensures even water distribution when mixed with other Rain Bird MPR nozzles in the same zone.

- **Spray Pattern:** 360° Full Circle
- **Adjustable Spray Distance:** 5 to 8 feet
- **Material:** Non-corrosive plastic and stainless steel
- **Compatibility:** Fits all Rain Bird pop-up spray head sprinklers and shrub adapters
- **Features:** Fine mesh filter screen, stainless steel adjustment screw



Image 1.1: The Rain Bird 8FC1 Spray Nozzle. This image shows the compact design of the nozzle, ready for installation into a sprinkler head.

2. INSTALLATION AND SETUP

The 8FC1 spray nozzle is designed for easy installation onto any compatible Rain Bird pop-up spray head sprinkler or shrub adapter. Ensure the water supply to the sprinkler system is turned off before beginning installation.

1. Remove the existing nozzle from the sprinkler head by unscrewing it.
2. Ensure the sprinkler stem and filter screen are clean and free of debris. If replacing, it is recommended to install the new filter screen provided with the nozzle.
3. Screw the Rain Bird 8FC1 nozzle onto the sprinkler stem until it is hand-tight. Do not overtighten.
4. Turn on the water supply to the sprinkler system to check for proper operation and adjust the spray pattern and distance as needed.

2.1. Adjusting Spray Pattern and Distance

The 8FC1 nozzle provides a fixed 360° full circle spray pattern. The spray distance (radius) can be adjusted to suit your landscape needs.

- **Adjusting Arc (Orientation):** To align the fixed 360° pattern, simply grasp the sprinkler stem and rotate it until the desired coverage area is achieved. The stem can be ratcheted to reposition the spray pattern without unscrewing the nozzle.
- **Adjusting Radius (Distance):** Use a flat-head screwdriver to turn the radius adjusting screw located at the top center of the nozzle.
 - Turning the screw *clockwise* will **decrease** the spray radius.
 - Turning the screw *counter-clockwise* will **increase** the spray radius, up to the nozzle's maximum rated distance of 8 feet.



Image 2.1: The Rain Bird 8FC1 Nozzle in operation, demonstrating its 360° full circle spray pattern over grass.

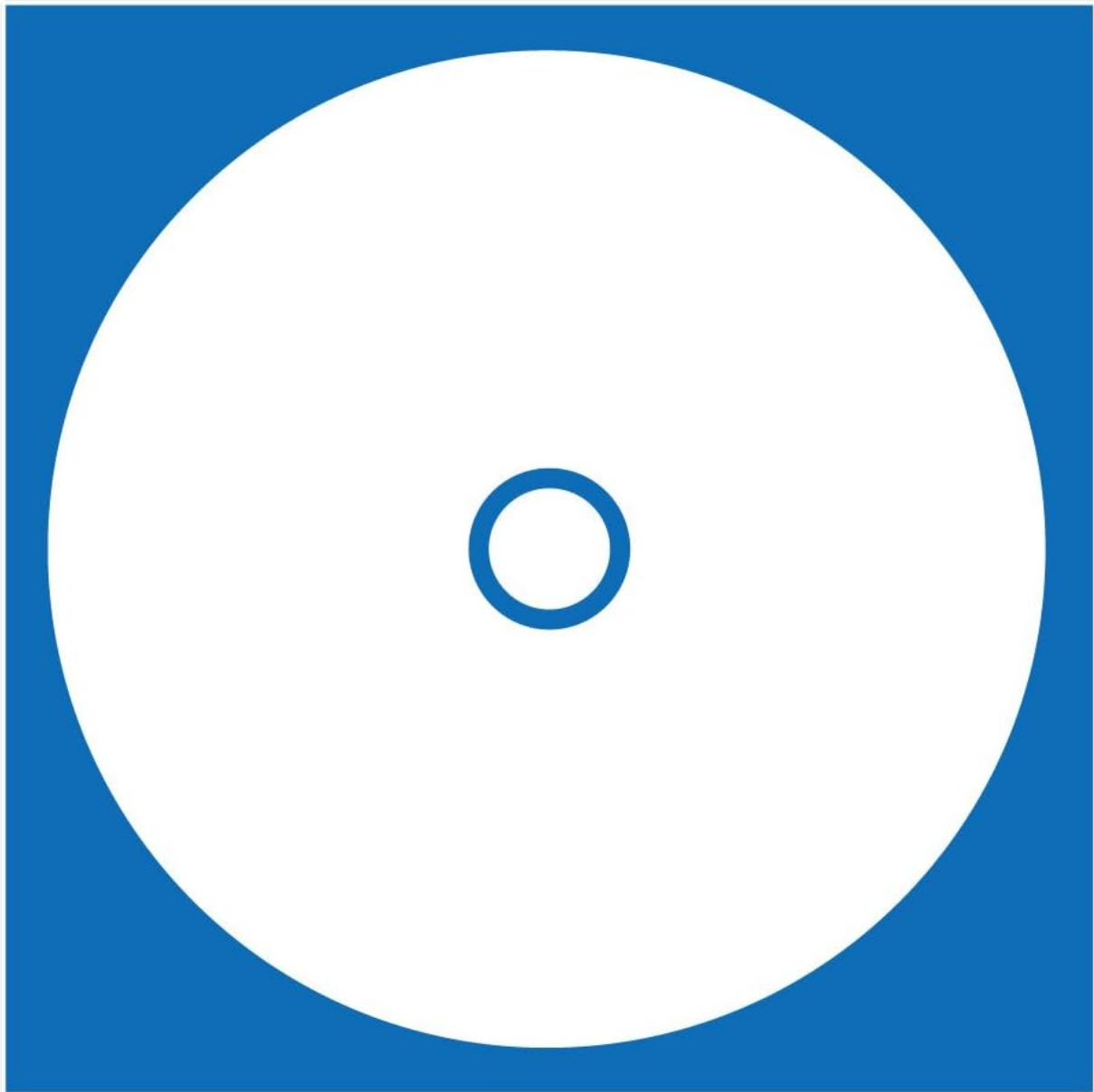


Image 2.2: A diagram illustrating the 360° full circle spray pattern provided by the nozzle. The white circle represents the coverage area.

2.2. Video: Nozzle Adjustment Guide

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Video 2.1: This video demonstrates the adjustment process for Rain Bird MPR and U-Series nozzles, including how to ratchet the stem for arc adjustment and use the screw for radius adjustment. While the video may feature a different specific nozzle model (e.g., 9SSTC1), the adjustment principles apply to the 8FC1 nozzle.

3. OPERATING INSTRUCTIONS

Once installed and adjusted, the Rain Bird 8FC1 spray nozzle operates automatically as part of your irrigation system. Ensure your sprinkler system timer is set correctly for optimal watering schedules.

- Verify that the nozzle is spraying water within the desired area and not onto sidewalks, driveways, or other non-landscape surfaces.
- Periodically check the spray pattern for any obstructions or changes due to debris or external factors.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your Rain Bird 8FC1 spray nozzle.

- **Filter Screen Cleaning:** The nozzle includes a fine mesh filter screen to prevent debris from clogging the orifice. If the spray pattern becomes irregular or the flow is reduced, the filter screen may need cleaning.
 - a. Turn off the water supply to the sprinkler head.
 - b. Unscrew the nozzle from the sprinkler stem.
 - c. Carefully remove the filter screen from the base of the nozzle or the sprinkler stem.
 - d. Rinse the filter screen under running water to remove any trapped debris. A soft brush can be used for stubborn particles.
 - e. Reinsert the clean filter screen and reattach the nozzle to the sprinkler head.
 - f. Turn on the water supply and check the spray pattern.

- **Winterization:** In regions subject to freezing temperatures, follow standard irrigation system winterization procedures, which typically involve draining the system to prevent freeze damage.

5. TROUBLESHOOTING

If you encounter issues with your Rain Bird 8FC1 spray nozzle, consider the following common solutions:

- **Irregular Spray Pattern or Reduced Flow:**
 - Check and clean the filter screen as described in the Maintenance section.
 - Inspect the nozzle orifice for any blockages that may not be caught by the filter.
 - Ensure adequate water pressure is supplied to the sprinkler head.

- **Incorrect Spray Distance:**
 - Adjust the radius screw using a flat-head screwdriver (clockwise to decrease, counter-clockwise to increase).
 - Verify that the water pressure is within the recommended operating range for the nozzle.

- **Water Spraying on Unintended Areas:**
 - Re-orient the sprinkler stem by ratcheting it to direct the spray pattern correctly.
 - Adjust the spray radius to prevent overspray.

6. SPECIFICATIONS

Feature	Detail
Model Number	8FC1
Spray Pattern	360° Full Circle
Spray Distance (Radius)	5 - 8 feet (adjustable)
Trajectory	10°
Flow Rate	0.74 to 1.05 gallons per minute (adjustable)
Material	Plastic, Stainless Steel
Item Dimensions (L x W x H)	2.75 x 1.25 x 5.75 inches
Item Weight	4.54 g
Compatibility	All Rain Bird pop-up spray head sprinklers and shrub adapters

7. WARRANTY INFORMATION

Specific warranty details for the Rain Bird 8FC1 Spray Nozzle are typically provided with the product packaging or can be found on the official Rain Bird website. Please refer to these resources for the most accurate and up-to-date warranty terms and conditions.

8. SUPPORT AND CONTACT

For further assistance, technical support, or to inquire about other Rain Bird products, please visit the official Rain Bird website or contact their customer service department. You can find contact information and additional resources at:

www.rainbird.com