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› Orbit 54024 Plastic Flush Head Sprinkler with Brass Full Pattern Spray Nozzle User Manual

Orbit 54024

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INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Orbit 54024 Plastic Flush Head Sprinkler with Brass Full Pattern Spray Nozzle. Please read this manual thoroughly before use to ensure proper function and longevity of your product. This sprinkler head is designed for outdoor irrigation with cold water only.



Image: Top-down view of the Orbit 54024 flush head sprinkler, showing the green plastic body and the central brass full pattern spray nozzle.

SAFETY INFORMATION

Observe the following safety guidelines to prevent injury and product damage:

- Always turn off the water supply before installing, adjusting, or performing maintenance on the sprinkler system.
- Use this product only for its intended purpose: outdoor irrigation with cold water.
- Do not operate the sprinkler system at pressures exceeding the recommended maximum.
- Keep children and pets away from active sprinkler heads to prevent accidental injury.
- Consult local codes regarding pressure regulation requirements, as this spray head is non-pressure regulating.

PACKAGE CONTENTS

- 1 x Orbit 54024 Plastic Flush Head Sprinkler with Brass Full Pattern Spray Nozzle

SETUP

The Orbit 54024 flush head sprinkler is designed for easy replacement in existing irrigation systems. It features 1/2-inch Female Pipe Threads (FPT) for connection.

Installation Steps:

1. **Prepare the Riser:** Ensure the existing riser or pipe has a 1/2-inch Male Pipe Thread (MPT). If installing a new system, use a rigid PVC or cut-off riser with the appropriate threading.
2. **Thread the Sprinkler Head:** Carefully thread the Orbit 54024 sprinkler head onto the 1/2-inch MPT riser. Hand-tighten initially.
3. **Secure Connection:** Use a flush head wrench (sold separately) to securely tighten the sprinkler head. This tool simplifies installation and removal without extensive digging. Avoid over-tightening, which can damage the threads.
4. **Positioning:** Ensure the top of the sprinkler head is flush with the ground level for optimal performance and aesthetic integration into your landscape.



Image: The underside of the Orbit 54024 sprinkler head, clearly showing the 1/2-inch female pipe threads for connection to a riser.

OPERATING INSTRUCTIONS

The Orbit 54024 sprinkler head delivers a full pattern spray, ideal for covering circular areas in lawns or garden beds.

Water Pressure:

- The recommended operating pressure for this sprinkler head is **30 PSI**. Operating outside this range may affect spray pattern and distance.
- This sprinkler head is non-pressure regulating. Ensure your system's pressure is within acceptable limits for optimal performance and to comply with local regulations.

Spray Pattern Adjustment:

The brass nozzle includes an adjustment screw that allows you to modify the spray radius. You can reduce the spray

pattern down to 75 percent of its maximum radius of 15 feet.

1. **Locate the Adjustment Screw:** The small screw is located on the top of the brass nozzle.
2. **Adjust the Spray:** Using a small flat-head screwdriver, turn the screw clockwise to decrease the spray radius or counter-clockwise to increase it. Make small adjustments and observe the spray pattern to achieve the desired coverage.



Image: The Orbit 54024 sprinkler head shown with its product label, highlighting its 15-foot full pattern spray capability.



10-15 FT. DISTANCE

Image: A graphic representation indicating the effective spray distance of the sprinkler, ranging from 10 to 15 feet.

Smart Controller Compatibility:

For enhanced water conservation and automated scheduling, this sprinkler head is compatible with Orbit B-hyve smart controllers. Refer to your B-hyve controller's manual for integration instructions.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your sprinkler head.

Cleaning the Nozzle:

Over time, debris or mineral deposits can affect the spray pattern. If you notice an irregular spray, the nozzle may need cleaning.

1. **Turn Off Water:** Shut off the water supply to the sprinkler zone.

- 2. **Remove Nozzle:** Carefully unscrew the brass nozzle from the plastic flush head.
- 3. **Clean:** Rinse the nozzle under running water. Use a small brush or a thin wire to clear any obstructions from the nozzle opening. Avoid using harsh chemicals that could damage the brass.
- 4. **Reinstall:** Screw the clean nozzle back into the flush head and hand-tighten. Turn on the water supply and check the spray pattern.

Nozzle Replacement:

If the brass nozzle is damaged or worn, it can be easily replaced with a new brass flush head spray nozzle with male threads.

- 1. **Turn Off Water:** Shut off the water supply to the sprinkler zone.
- 2. **Remove Old Nozzle:** Unscrew the damaged brass nozzle.
- 3. **Install New Nozzle:** Thread the new brass nozzle into the flush head. Hand-tighten, then use a wrench for a snug fit, being careful not to overtighten.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Uneven or weak spray pattern	Clogged nozzle; Low water pressure; Damaged nozzle	Clean the nozzle (see Maintenance); Verify water pressure is at least 30 PSI; Replace the nozzle if damaged.
Water leaks from base of sprinkler head	Loose connection; Damaged threads	Tighten the sprinkler head onto the riser; Inspect threads for damage and replace if necessary.
Sprinkler not spraying	No water supply; Completely clogged nozzle	Check water supply to the zone; Clean the nozzle thoroughly.

SPECIFICATIONS

Feature	Detail
Model Number	54024
Brand	Orbit
Material	Brass, Plastic
Style	Non-Pop-Up Plastic Flush Head
Item Dimensions (L x W x H)	1.1 x 2.1 x 2.1 inches
Item Weight	1.6 ounces
Maximum Operating Pressure	30 PSI (Recommended)
Maximum Flow Rate	2.5 GPM
Thread Type	1/2" Female Pipe Thread (FPT)

Feature	Detail
Spray Pattern	Full Circle
Spray Radius	Up to 15 feet (adjustable)

WARRANTY INFORMATION

Orbit products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty statement included with your purchase or visit the official Orbit website. Keep your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

If you have any questions, require assistance, or need to troubleshoot issues not covered in this manual, please contact Orbit customer support. Contact information can typically be found on the product packaging or the official Orbit website (www.orbitonline.com).

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