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> Orbit 54242 400-Series Pop-Up Sprinkler Spray Head Instruction Manual

Orbit 54242



Orbit 54242 400-Series Professional Pop-Up Sprinkler Spray Head

Model: 54242

1. PRODUCT OVERVIEW

The Orbit 54242 400-Series Professional Pop-Up Sprinkler Spray Head is designed for efficient and uniform lawn watering. This model features a durable brass nozzle and a high-impact plastic body, ensuring reliable performance for years. It provides a half-circle spray pattern with a twin-spray nozzle for comprehensive coverage.



Image 1.1: The Orbit 54242 400-Series Professional Pop-Up Sprinkler Spray Head.

Key Features:

- **Twin-spray nozzle:** Delivers a full distance spray combined with an under spray pattern for uniform watering and reduced dry spots.
- **Durable construction:** Features a brass nozzle and high-impact plastic body for long-lasting use.
- **Flow adjustment:** Allows for precise control over water output.
- **Half-circle coverage:** Ideal for watering along edges and boundaries.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installation and operation.

- This product is designed for **outdoor use only**.
- Use with **cold water only**.
- Handle the brass nozzle with care to avoid damage during installation or adjustment.

- Always turn off the main water supply before performing any installation, maintenance, or adjustments to the sprinkler system.
- Wear appropriate personal protective equipment, such as eye protection, during installation to prevent injury.
- Ensure proper drainage to prevent water accumulation, which can lead to slips or damage to property.

3. INSTALLATION (SETUP)

Follow these steps for proper installation of your Orbit 54242 sprinkler head.

1. **Turn Off Water Supply:** Locate the main water shut-off valve for your irrigation system and turn it off completely to prevent water flow during installation.
2. **Excavate Area:** Carefully dig around the existing sprinkler head (if replacing) or the planned installation point for a new head. Ensure enough space to work comfortably.
3. **Remove Old Head (if applicable):** Unscrew the old sprinkler head from the riser or pipe fitting. Clean any dirt or debris from the threads.
4. **Prepare Threads:** Apply 3-4 wraps of plumber's thread sealant tape (Teflon tape) clockwise around the male threads of the riser or pipe fitting. This helps create a watertight seal.
5. **Install New Sprinkler Head:** Screw the Orbit 54242 sprinkler head onto the prepared threads. Hand-tighten first, then use a wrench to tighten an additional 1/2 to 1 full turn. Do not overtighten, as this can damage the threads or the sprinkler body.
6. **Adjust Height:** Ensure the top of the sprinkler head is flush with the ground level when the system is off. Adjust the riser height if necessary.
7. **Backfill and Test:** Carefully backfill the soil around the sprinkler head, ensuring it remains upright. Turn on the water supply slowly and check for any leaks around the base of the sprinkler. Make any necessary adjustments.

4. OPERATION

The Orbit 54242 sprinkler head is designed for simple operation and adjustment.

- **Water Flow:** Once installed and the water supply is on, the sprinkler head will pop up when the system is activated.
- **Adjusting Spray Pattern:** This model is pre-set for a half-circle spray pattern. Fine-tuning of the spray distance can typically be done by rotating the top cap or using a small screwdriver in the adjustment screw located on the nozzle. Refer to the markings on the sprinkler head for specific adjustment points.
- **Twin-Spray Nozzle:** The integrated twin-spray nozzle ensures even water distribution across the half-circle area, minimizing runoff and maximizing coverage efficiency.

5. MAINTENANCE

Regular maintenance helps ensure optimal performance and extends the life of your sprinkler head.

- **Clean Nozzle:** Periodically inspect the nozzle for any debris (dirt, grass clippings, mineral deposits) that may obstruct the spray pattern. Turn off the water, gently pull up the riser, and clean the nozzle opening with a soft brush or cloth.
- **Check for Leaks:** Regularly inspect the area around the sprinkler head for any signs of leaks, which could indicate a loose connection or damaged seal.
- **Winterization:** In regions subject to freezing temperatures, it is crucial to properly winterize your irrigation system to prevent damage. This typically involves shutting off the water supply, draining the lines, and blowing out the system with compressed air. Consult a local irrigation professional if you are unsure about winterization procedures.

6. TROUBLESHOOTING

Refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Sprinkler head not popping up.	Low water pressure, debris in head, damaged riser.	Check water pressure. Clean debris from nozzle and filter. Inspect for physical damage.
Uneven spray pattern.	Clogged nozzle, incorrect adjustment.	Clean nozzle opening. Adjust spray distance screw.
Water leaking from base of head.	Loose connection, damaged threads, worn seal.	Tighten connection. Reapply thread sealant tape. Replace head if seal is damaged.
Water spraying too far or not far enough.	Incorrect flow adjustment.	Adjust the flow screw on the nozzle to increase or decrease spray distance.

7. SPECIFICATIONS

Feature	Detail
Brand	Orbit
Model Number	54242
Item Type Name	2-Inch 400-Series Professional Pop-Up Sprinkler Spray Head
Style	Pop-Up
Color	Black
Material	Brass, Plastic
Item Dimensions (L x W x H)	2.25 x 2.25 x 4.12 inches
Inlet Connection Size	2 Inches
Maximum Pressure	30 PSI (Pound per Square Inch)
Maximum Flow Rate	250 Liters Per Minute
UPC	046878542426

8. WARRANTY AND SUPPORT

For warranty information or technical support, please contact Orbit customer service. Keep your purchase receipt as proof of purchase.

- **Online Support:** Visit the official Orbit website for FAQs, product registration, and contact information.
- **Customer Service:** Refer to the packaging or the Orbit website for current customer service contact details (phone number, email).

