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› Orbit 80311-6" Professional Pressure-Regulating Pop-Up Sprinkler Head User Manual

Orbit 80311-6"

Orbit 80311-6" Professional Pressure-Regulating Pop-Up Sprinkler Head

Model: 80311-6" | Brand: Orbit

INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your Orbit 80311-6" Professional Pressure-Regulating Pop-Up Spray Head Sprinkler. This professional series spray head is designed for efficient outdoor irrigation with cold water only. It features an adjustable pressure regulator and a versatile spray nozzle for various landscape types.



Figure 1: Orbit 80311-6" Professional Pop-Up Sprinkler Head.

SAFETY INFORMATION

- Use this product for outdoor irrigation with cold water only.
- Ensure all connections are secure to prevent leaks.
- Do not operate the sprinkler system if any components are damaged.
- Keep children and pets away from active sprinkler heads during operation.

SETUP AND INSTALLATION

The Orbit 80311-6" sprinkler head is designed for straightforward installation. It features a standard 1/2-inch female pipe thread (FPT) inlet for connection to various irrigation fittings.

Connecting the Sprinkler Head

1. Ensure the water supply is turned off before beginning installation.
2. Connect the 1/2-inch FPT inlet at the bottom of the sprinkler body to your irrigation piping. This can include Blu-Lock and Riser-Flex fittings, as well as 1/2-inch Schedule 80 PVC and cut-off risers.
3. Hand-tighten the connection, then use a wrench for an additional quarter to half turn to ensure a watertight seal. Avoid over-tightening.
4. Position the sprinkler head in the desired location, ensuring it is level with the ground surface.

Replaces All Major Brands of 1/2 in. Inlet Pop-Up Sprinklers



1/2" NPT

Figure 2: The sprinkler head features a 1/2-inch NPT connection for easy integration into existing irrigation systems.



Figure 3: Proper installation of the sprinkler head ensures optimal performance and coverage.

Adjusting Pressure Regulator

The integrated pressure regulator can be adjusted to optimize performance for different nozzle types. This adjustment can be made either before or after installation.

- **30 PSI:** Recommended for standard spray nozzles.
- **40 PSI:** Recommended for multi-stream rotator nozzles.

To adjust, use a screwdriver to turn the adjustment mechanism located at the bottom of the can (before installation) or from the top of the can (after installation).

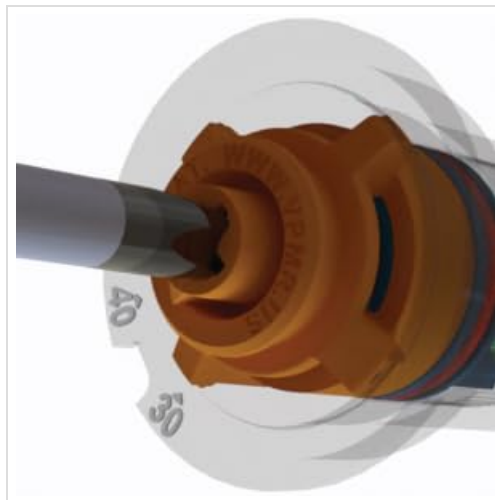


Figure 4: Adjusting the pressure regulator to 30 PSI for spray nozzles or 40 PSI for multi-stream rotator nozzles.

OPERATING INSTRUCTIONS

Once installed, the sprinkler head's nozzle can be adjusted to achieve the desired spray pattern and distance.

Adjusting Spray Pattern and Distance

1. **Spray Pattern Adjustment:** Grip the top of the nozzle and turn it counter-clockwise to increase the spray area. Turn clockwise to decrease the spray area. The nozzle is engineered to deliver uniform droplet sizes across a 0-to-360-degree arc.
2. **Distance Adjustment:** Use a small, slotted screwdriver to turn the center screw on the nozzle. Hold the base of the nozzle firmly so only the distance adjustment screw moves. Turn clockwise to decrease the spray distance, and counter-clockwise to increase it. The spray pattern can be reduced down to 75 percent of its rated distance. Ensure the nozzle filter is in place

for proper distance adjustment.



Figure 5: Instructions for adjusting the spray pattern and distance of the sprinkler nozzle.

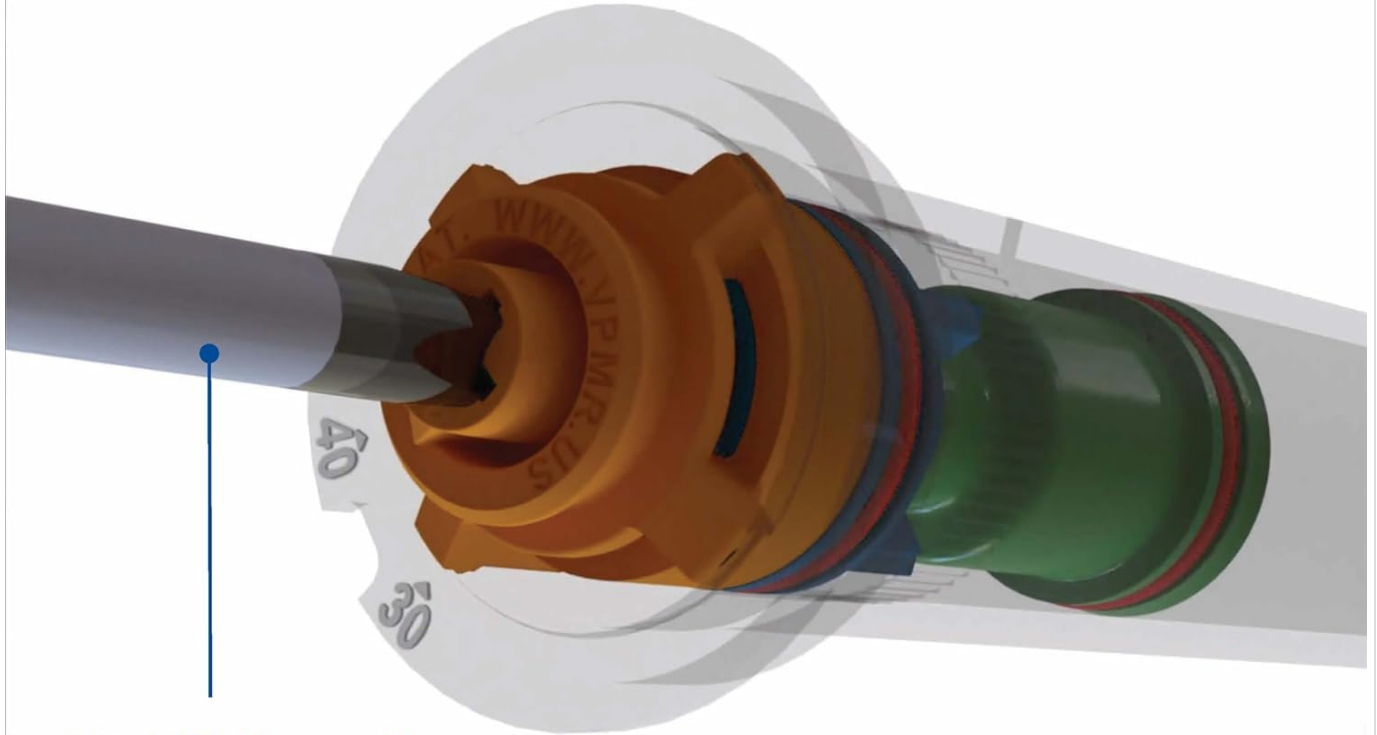
Directing the Spray

After installation, the direction of the spray can be fine-tuned using the ratcheting riser stem.

- Gently rotate the riser stem to adjust the spray direction as needed. The ratcheting mechanism allows for precise positioning.



Adjustable Pressure Regulator



Adjust PSI with screwdriver
30 PSI is best for fixed nozzles
40 PSI is best for rotary nozzles

Figure 6: The ratcheting riser allows for easy adjustment of the spray direction.



Figure 7: Example of the sprinkler head effectively watering a garden area.

MAINTENANCE

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

- **Wiper Seal:** The over-molded structural support in the wiper seal ensures smooth retraction and prevents water bypass. Periodically check the seal for debris or damage.
- **Riser Spring:** The corrosion-resistant stainless steel riser spring provides reliable pop-up action. No specific maintenance is typically required for the spring itself, but ensure the riser moves freely.
- **Silt Trap:** The bottom of the can features an integral silt trap to prevent debris from entering the sprinkler mechanism. If water flow is reduced or inconsistent, the silt trap may need cleaning.
- **Nozzle Filter:** The adjustable pattern spray nozzle includes a filter. If the spray pattern becomes irregular or distance is reduced, remove and clean the nozzle filter.

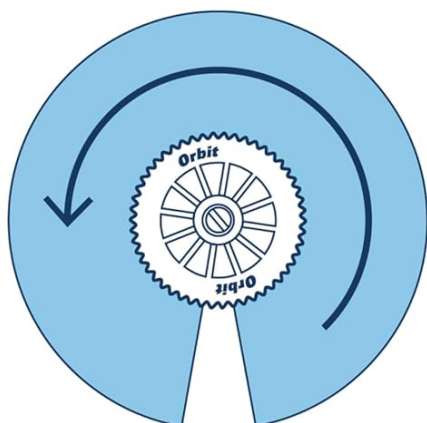


Adjustable Nozzle Instructions

Spray Pattern Adjustment

Grip the top of the nozzle and turn counterclockwise to increase the spray area of the nozzle.

Turn clockwise to decrease.



Distance Adjustment

Use a small, slotted screwdriver to turn the center screw. Hold the base of the nozzle firmly so only the distance adjustment screw moves.

Turn clockwise to decrease the distance.

Turn counterclockwise to increase the distance.

The nozzle filter must be in place for the distance adjustment to work.

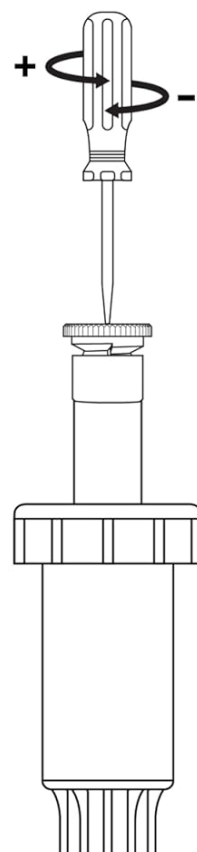


Figure 8: Internal components of the sprinkler head, including the wiper seal, riser, and filter, which are key for maintenance.

TROUBLESHOOTING

This section addresses common issues you might encounter with your sprinkler head.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Sprinkler not popping up fully.	Low water pressure, debris in the riser mechanism, or damaged spring.	Check water pressure. Clean any debris from around the riser. Inspect the riser spring for damage.
Irregular spray pattern or reduced distance.	Clogged nozzle filter, incorrect pressure setting, or damaged nozzle.	Clean the nozzle filter. Verify the pressure regulator is set correctly (30 PSI for spray nozzles). Inspect the nozzle for cracks or blockages.
Water leaking from the base of the sprinkler.	Loose connection, damaged pipe thread, or faulty wiper seal.	Tighten the 1/2-inch FPT connection. Inspect pipe threads for damage. Check the wiper seal for wear or damage.
Sprinkler not retracting.	Debris obstructing the riser, or damaged riser spring.	Clear any debris from the riser. Inspect the riser spring for proper function.

SPECIFICATIONS

- Brand:** Orbit
- Model:** 80311-6"
- Material:** Plastic
- Style:** Pop Up
- Riser Stem Height:** 6 inches (available in 2-, 3-, and 4-inch heights for other models)
- Item Dimensions (L x W x H):** 2.3 x 2.3 x 8.8 inches
- Maximum Pressure:** 70 PSI (Pound per Square Inch)
- Recommended Operating Pressure:** 30 PSI (for spray nozzles), 40 PSI (for multi-stream rotator nozzles)
- Maximum Flow Rate:** 43814.55 Gallons Per Minute *(Note: This value may be a data entry error. Refer to product packaging for accurate flow rates.)*
- Inlet Connection:** 1/2-inch Female Pipe Thread (FPT)
- Nozzle Type:** Adjustable Pattern (0-360 degrees)
- Spacing:** Up to 15 ft. between sprinkler heads

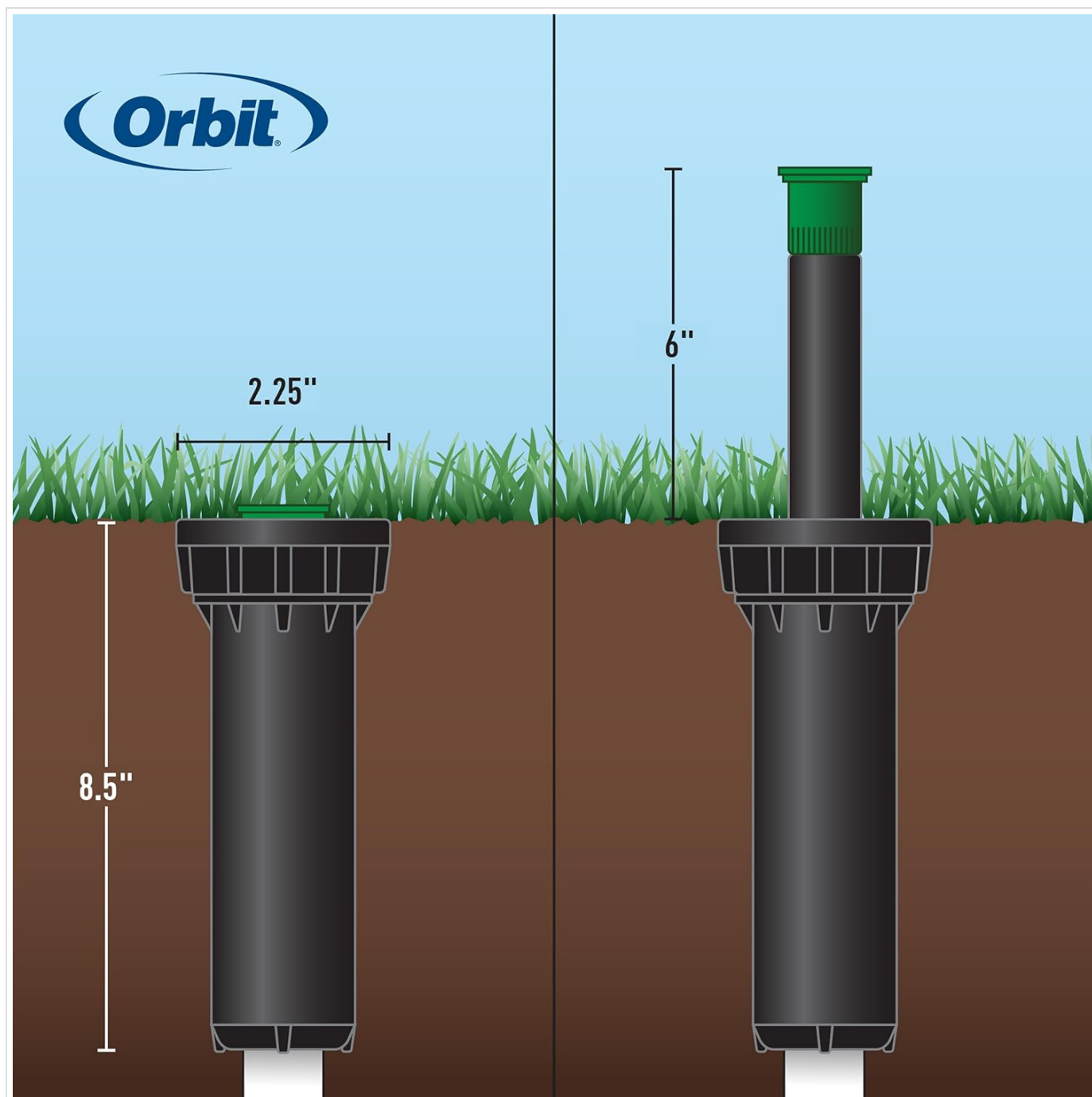


Figure 9: Dimensions of the Orbit 6-inch pop-up sprinkler head, showing its retracted and extended states.



Figure 10: Recommended spacing of up to 15 feet between sprinkler heads for optimal coverage.

WARRANTY AND SUPPORT

For warranty information or technical support, please contact Orbit customer service. You can find contact details on the official Orbit website or through your retailer.

Official Website: www.orbitonline.com

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Question

Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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