

Toro O-T-12-150

TORO O-T-12-150 Precision Spray Nozzle User Manual

Model: O-T-12-150

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the TORO O-T-12-150 Precision Spray Nozzle. This nozzle is designed for efficient irrigation systems, offering precise water distribution and reduced flow rates.

The TORO O-T-12-150 is a male-threaded nozzle engineered to deliver a 1 inch per hour (25mm/hr) precipitation rate. It uses approximately one-third less flow compared to conventional spray nozzles, contributing to water conservation and maximizing design efficiency. Its robust design, free of moving or sonic welded parts, ensures consistent performance and a better edge definition for the water arc.



Figure 1: TORO O-T-12-150 Precision Spray Nozzle. This image shows the compact design of the nozzle, highlighting its male-threaded base and the spray head.

2. SETUP AND INSTALLATION

Proper installation ensures optimal performance and longevity of your precision spray nozzle.

2.1. Before Installation

- Ensure the irrigation system's water supply is turned off.
- Verify that the sprinkler body or riser is clean and free of debris.
- Confirm the correct nozzle type (O-T-12-150) is selected for your specific irrigation zone requirements.

2.2. Installation Steps

1. Carefully unpackage the TORO O-T-12-150 nozzle.
2. Remove any existing nozzle from the sprinkler body or riser by unscrewing it counter-clockwise.
3. Inspect the internal filter screen of the new nozzle. Ensure it is clean and properly seated. The nozzle includes a screen for filtering debris.
4. Thread the new TORO O-T-12-150 nozzle onto the sprinkler body or riser by turning it clockwise. Hand-tighten only. Do not overtighten, as this can damage the nozzle or sprinkler body.
5. Once installed, ensure the nozzle is securely seated and facing the desired direction for water distribution.

3. OPERATING INSTRUCTIONS

The TORO O-T-12-150 nozzle is designed for simple operation once installed.

1. After installation, slowly turn on the water supply to the irrigation system.
2. Observe the spray pattern. The O-T-12-150 is a fixed-pattern nozzle, meaning its spray arc is predetermined.
3. Adjust the sprinkler body's height or position if necessary to ensure the spray covers the intended area without overspray onto non-irrigated surfaces.
4. The nozzle's precipitation rate is approximately 1 inch per hour (25mm/hr). Adjust your irrigation controller's run times accordingly to meet the specific watering needs of your landscape.

Note: This nozzle does not have adjustable arc or radius features. Its precision is derived from its fixed design and efficient water delivery.

4. MAINTENANCE

Regular maintenance helps ensure the efficient and long-lasting performance of your TORO O-T-12-150 nozzle.

4.1. Cleaning the Filter Screen

- Periodically inspect the nozzle for debris or clogs.
- Turn off the water supply to the irrigation zone.
- Unscrew the nozzle counter-clockwise to remove it from the sprinkler body.
- Gently remove the small filter screen located at the base of the nozzle.
- Rinse the screen under running water to remove any accumulated dirt or particles. A soft brush can be used for stubborn debris.
- Reinsert the clean filter screen into the nozzle and re-thread the nozzle onto the sprinkler body, hand-tightening only.
- Turn on the water supply and check the spray pattern.

4.2. Winterization (for cold climates)

In regions subject to freezing temperatures, it is crucial to properly winterize your irrigation system to prevent damage to nozzles and other components. Consult your irrigation system's main manual for specific winterization procedures, which typically involve draining water from the lines and blowing out the system with compressed air.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your TORO O-T-12-150 nozzle.

Problem	Possible Cause	Solution
No water or low flow from nozzle.	Clogged filter screen or nozzle orifice.	Turn off water, remove nozzle, clean filter screen and nozzle orifice. Reinstall.
Irregular spray pattern.	Debris partially blocking the nozzle orifice; damaged nozzle.	Clean the nozzle and filter screen. If the problem persists, the nozzle may be damaged and require replacement.
Water leaking from base of nozzle.	Nozzle not tightened sufficiently; damaged threads on nozzle or sprinkler body.	Hand-tighten the nozzle. If leaking continues, inspect threads for damage. Replace if necessary.

6. SPECIFICATIONS

Key technical specifications for the TORO O-T-12-150 Precision Spray Nozzle:

- **Model Number:** O-T-12-150
- **Type:** Precision Spray Nozzle
- **Thread Type:** Male threaded
- **Precipitation Rate:** 1 inch per hour (25mm/hr)
- **Flow Reduction:** Uses 1/3 less flow compared to conventional spray nozzles
- **Key Features:** No moving or sonic welded parts for consistent performance
- **Product Dimensions:** 1 x 1 x 1 inches
- **Item Weight:** 1.28 ounces
- **Manufacturer:** Toro

7. WARRANTY INFORMATION

Toro products are manufactured to high standards and are backed by a limited warranty. For specific warranty terms and conditions applicable to the O-T-12-150 Precision Spray Nozzle, please refer to the warranty documentation included with your purchase or visit the official Toro website. Keep your proof of purchase for warranty claims.

8. CUSTOMER SUPPORT

For technical assistance, replacement parts, or further inquiries regarding your TORO O-T-12-150 Precision Spray Nozzle, please contact Toro customer support. You can find contact information, FAQs, and additional resources on the official [Toro website](#) or by referring to the contact details provided in your

product packaging.