

Nelson 818653-1003

Nelson Rain Train Traveling Sprinkler

Model: 818653-1003

Brand: Nelson

INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your Nelson Rain Train Traveling Sprinkler. Designed for efficient and automated lawn watering, this heavy-duty cast iron sprinkler covers large areas by following a hose path.

SETUP

Proper setup ensures optimal performance and coverage. Follow these steps to prepare your Rain Train for operation.

1. **Unpack the Sprinkler:** Carefully remove all components from the packaging. Ensure the sprinkler, spray arms, and auto shut-off ramp are present.
2. **Connect the Hose:** Attach your garden hose to the water inlet connection on the rear of the sprinkler. Ensure a tight, leak-free connection.
3. **Lay Out the Hose Path:** Position your garden hose in the desired watering pattern. The Rain Train follows the hose, so ensure the path is free of sharp turns or obstacles that could impede its movement. For best results, make turns gradual.
4. **Place the Auto Shut-Off Ramp:** If you wish for the sprinkler to stop automatically, place the yellow shut-off ramp over the hose at the desired stopping point. The sprinkler's front wheel will engage the ramp, activating the shut-off mechanism.



Figure 1: The Nelson Rain Train Traveling Sprinkler positioned on a garden hose, ready for operation. The yellow ramp for automatic shut-off is visible at the end of the hose path.

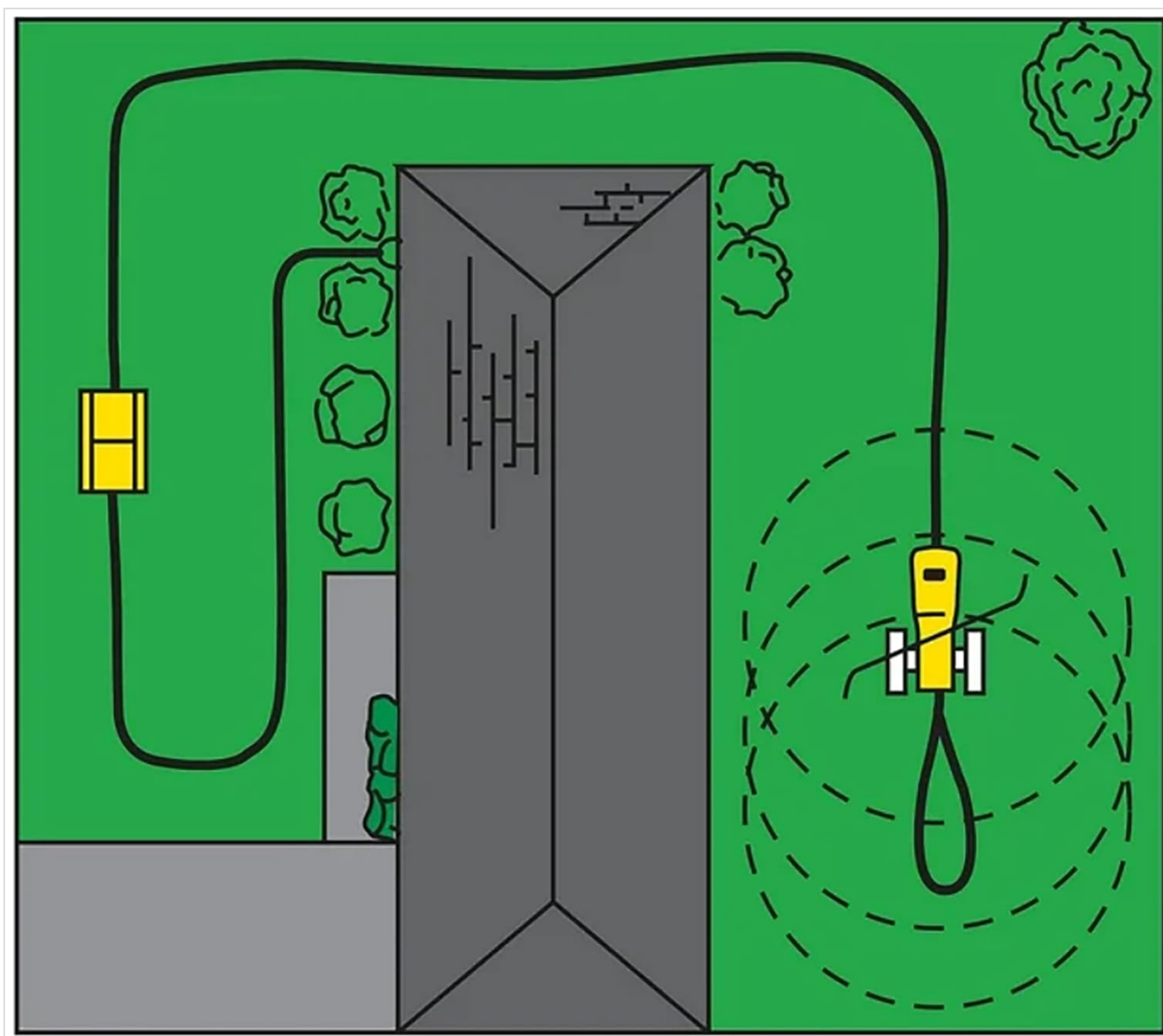


Figure 2: Example of a typical hose layout for the Rain Train, demonstrating how to guide the sprinkler to cover a large area. The sprinkler follows the hose path, ensuring comprehensive watering.

OPERATING INSTRUCTIONS

Once set up, operating your Rain Train is straightforward. Follow these guidelines for effective watering.

1. **Turn on Water:** Slowly turn on the water supply to the hose. The sprinkler will begin to spray water.
2. **Adjust Spray Arms:** The aluminum spray arms can be adjusted to fine-tune the watering pattern and coverage diameter, ranging from 15 to 55 feet. Point them up for higher spray or more level for a wider, lower pattern.
3. **Select Speed Setting:** The Rain Train offers three speed options:
 - **High:** For lighter saturation or faster travel.
 - **Low:** For heavier saturation or slower travel.
 - **Neutral:** To move the sprinkler manually without watering.

Adjust the speed according to your lawn's needs and desired water saturation.

4. **Automatic Shut-Off:** When the sprinkler reaches the placed shut-off ramp, a lever on its underside will be tripped, automatically stopping the water flow and the sprinkler's movement.

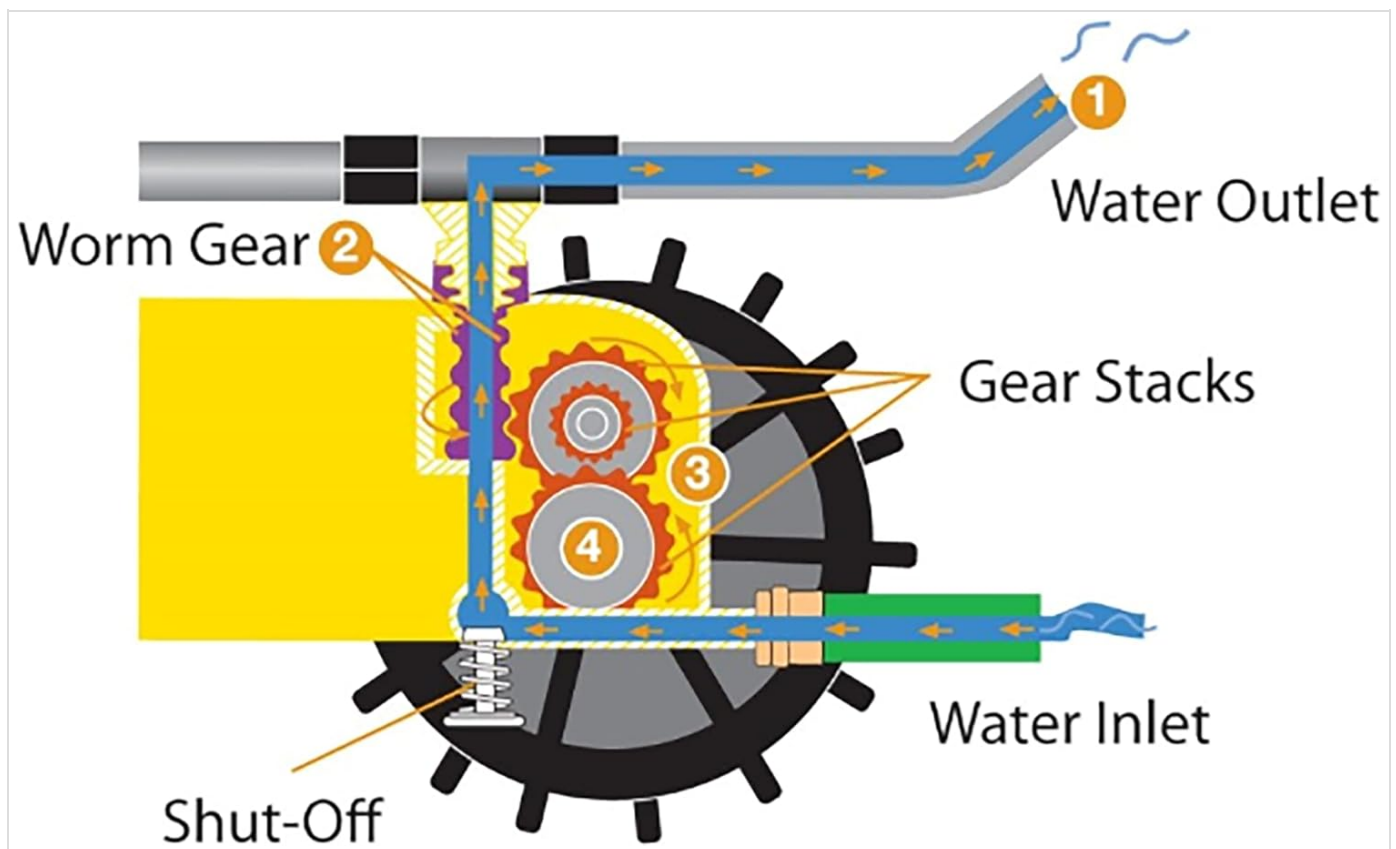


Figure 3: The Rain Train in operation, demonstrating its ability to water a large area of lawn effectively. The water streams are visible, indicating active irrigation.



Figure 4: Detail of the sprinkler's adjustable spray arms, which allow users to customize the watering pattern and coverage area.

MAINTENANCE

Regular maintenance will extend the life and efficiency of your Nelson Rain Train.

- **Cleaning:** Periodically clean the exterior of the sprinkler with a damp cloth. Ensure no debris accumulates around the wheels or spray nozzles.
- **Nozzle Inspection:** Check the spray nozzles for any clogs or mineral buildup. If necessary, clear them gently with a small wire or needle.
- **Hose Connection:** Regularly inspect the hose connection for wear or leaks. Replace washers if needed to maintain a tight seal.
- **Winterization:** Before freezing temperatures, completely drain all water from the sprinkler. Store it in a dry, protected area to prevent damage from ice expansion.



Figure 5: Front view of the sprinkler, highlighting the spray arms and the front wheel. Regular cleaning of these components is essential for optimal performance.

TROUBLESHOOTING

Refer to this section for solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Sprinkler not moving	- Low water pressure - Hose kinked or obstructed - Drive wheels clogged with debris - Transmission set to Neutral	- Increase water pressure - Straighten hose path - Clean wheels and drive mechanism - Set transmission to High or Low
Uneven spray pattern	- Clogged nozzles - Damaged spray arms	- Clean nozzles - Inspect and replace damaged spray arms
Water leaking from connections	- Loose hose connection - Worn washer	- Tighten hose connection - Replace rubber washer

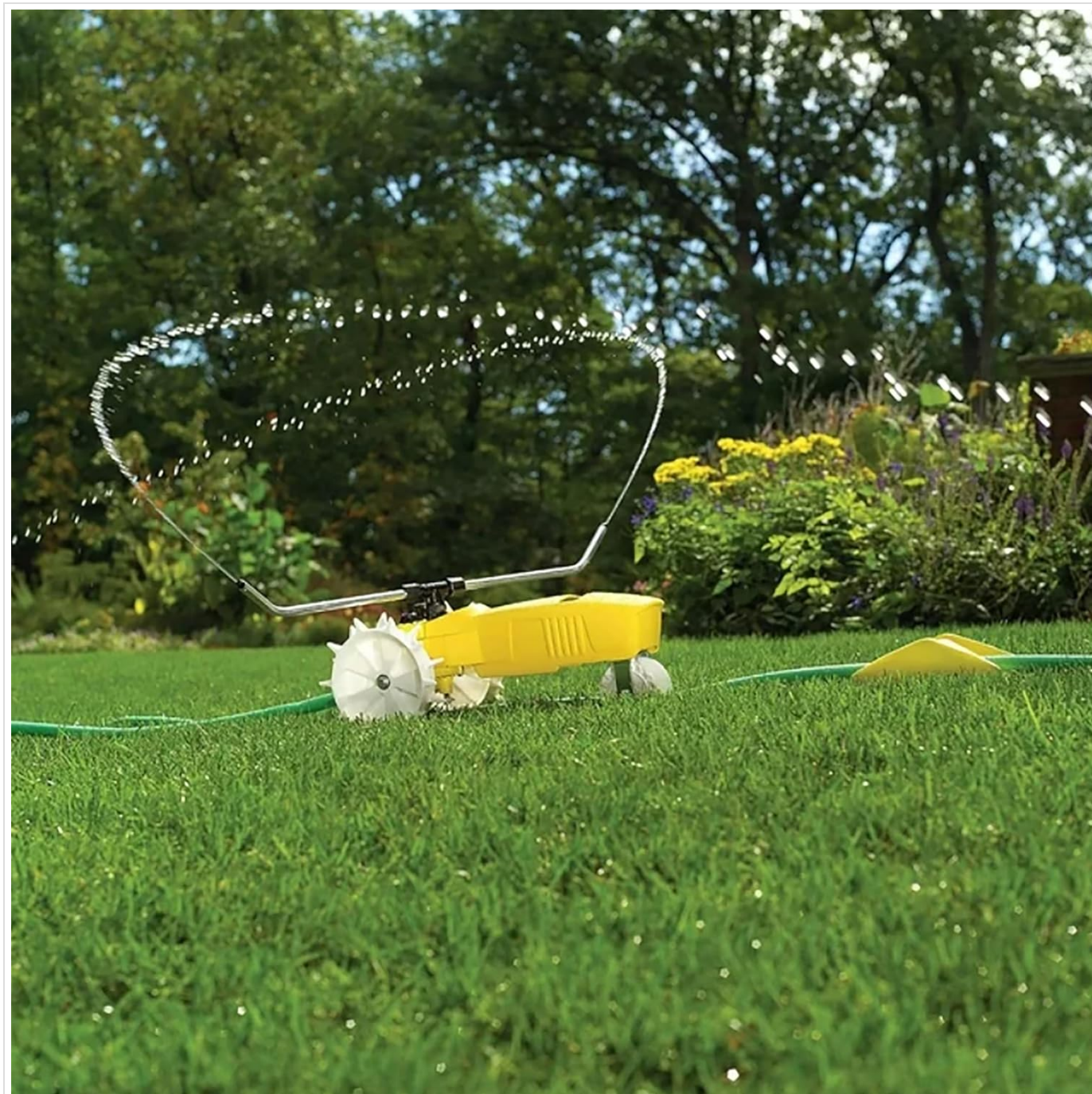


Figure 6: Internal diagram illustrating the water inlet, worm gear, gear stacks, and water outlet. Understanding this mechanism can assist in troubleshooting movement issues.

SPECIFICATIONS

Key technical specifications for the Nelson Rain Train Traveling Sprinkler.

- **Brand:** Nelson
- **Model Number:** 818653-1003
- **Color:** Yellow
- **Material:** Cast Iron body (as per description), Plastic components (as per specifications)
- **Coverage Area:** Up to 13,500 sq. ft.
- **Travel Distance:** Up to 200 feet
- **Coverage Diameter:** 15 to 55 feet (adjustable)
- **Dimensions (L x W x H):** 20.13 x 9.38 x 8.13 inches (from product description)

- **Item Weight:** Approximately 19.4 pounds (from product description)
- **Maximum Flow Rate:** 3 Gallons Per Minute

WARRANTY AND SUPPORT

Warranty: The Nelson Rain Train Traveling Sprinkler comes with a manufacturer's limited 2-year warranty. Please retain your proof of purchase for warranty claims.

Support: For further assistance, product inquiries, or to purchase replacement parts, please visit the official Nelson website or contact their customer service department. Refer to the product packaging or manufacturer's website for specific contact information.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

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

Details

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

Submit question

Answered questions about this manual

I have a Nelson Rain Train Traveling Sprinkler (Model 818653-1003). The shutoff valve pops off whenever I turn the sprinkler on. Can I obtain a replacement shutoff valve?

Yes, you can obtain replacement parts for the Nelson Rain Train Traveling Sprinkler (Model 818653-1003). According to the manufacturer's documentation, the shutoff mechanism involves a ramp and a stopper located on the underside of...

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