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Gardena MD40

Gardena Sprinkler System Pop-up Sprinkler MD40 Instruction Manual

1. Product Overview

The Gardena Sprinkler System Pop-up Sprinkler MD40 is designed for efficient and even irrigation of smaller lawn areas up to 40 m². This pop-up sprinkler integrates seamlessly into an underground irrigation system, retracting into the ground when not in use. It features innovative rotating nozzles for improved water absorption by plants and can reduce water consumption by up to 30% compared to traditional spray nozzles.

Key features include tool-free adjustment of spray width and sector, compatibility with other Gardena MD, T, and OS models, and an integrated dirt filter for enhanced durability.





Figure 1: Gardena Pop-up Sprinkler MD40. This image shows the complete sprinkler unit in its extended position, ready for installation.

2. Installation and Setup

The MD40 Pop-up Sprinkler is designed for underground installation as part of a Gardena Sprinkler System. Proper installation ensures optimal performance and longevity.

2.1 Site Preparation

- Plan your irrigation layout to ensure even coverage for your lawn area.
- Dig a trench to accommodate the sprinkler body and connecting pipes. Ensure the top of the sprinkler will be flush with the ground level when retracted.

2.2 Connection

- The MD40 features a 1/2 inch female thread connection. Connect it to your existing Gardena Sprinkler System piping using appropriate fittings.
- Ensure all connections are secure and watertight to prevent leaks.

2.3 Initial Placement

Position the sprinkler in the trench, ensuring it is level. The top cap should be flush with the ground surface once the trench is refilled. This allows the sprinkler to retract fully and remain unobtrusive.

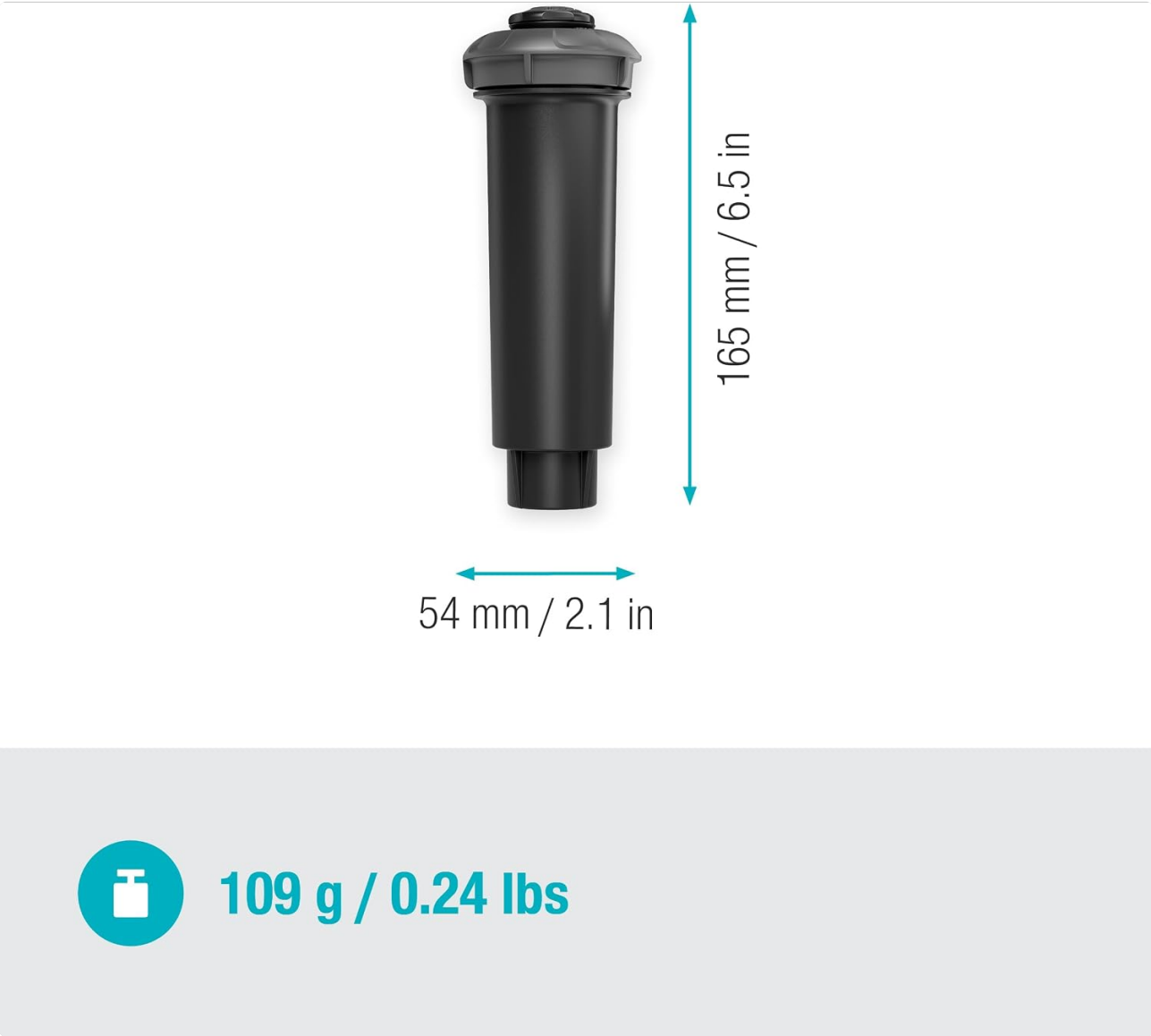


Figure 2: Dimensions of the Gardena Pop-up Sprinkler MD40. The sprinkler measures 165 mm (6.5 inches) in height and 54 mm (2.1 inches) in diameter, providing guidance for trench depth and spacing.

3. Operation

The MD40 Pop-up Sprinkler offers flexible adjustment options to customize your irrigation.

3.1 Adjusting Spray Width (Throw)

- The spray width, or throw, can be adjusted between 2.5 meters and 3.5 meters.
- To adjust, rotate the central dial on the top of the sprinkler head. This adjustment is step-free and requires no tools.

3.2 Adjusting Watering Sector

- The watering sector can be set between 80 and 360 degrees.
- Similar to the spray width, the sector is adjusted by rotating the outer ring on the sprinkler head. This is also a tool-free, step-free adjustment.



Figure 3: Top view of the MD40 sprinkler head, showing the adjustment dial for spray width and sector. The markings indicate the range of adjustment.

3.3 Water-Saving Technology

The MD40 utilizes rotating nozzles with Water Smart technology. These nozzles are designed to improve water absorption by plants and can contribute to significant water savings compared to conventional spray nozzles.



Figure 4: The Gardena MD40 sprinkler in action, demonstrating its watering pattern on a green lawn.

4. Maintenance

Regular maintenance ensures the long-term performance and efficiency of your Gardena Pop-up Sprinkler MD40.

4.1 Dirt Filter

The MD40 features an integrated dirt filter. Periodically inspect and clean this filter to prevent blockages and maintain consistent water flow. To access the filter, carefully unscrew the top part of the sprinkler head.



Figure 5: A cutaway view of the MD40 sprinkler, highlighting the internal dirt filter designed to prevent debris from affecting performance.

4.2 Dual Pop-up System

The dual pop-up system enhances the sprinkler's resistance to dirt and debris. Ensure the sprinkler head can freely extend and retract without obstruction from soil or grass clippings.

4.3 Winterization

Before the first frost, it is recommended to drain your sprinkler system to prevent damage from freezing water. Consult your overall Gardena Sprinkler System manual for detailed winterization procedures.

5. Troubleshooting

This section addresses common issues you might encounter with your MD40 Pop-up Sprinkler.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Reduced water flow or only trickles from nozzles.	Clogged dirt filter or nozzle. Low water pressure.	Clean the integrated dirt filter (refer to Section 4.1). Check for debris in the nozzle. Verify adequate water pressure in your system.
Sprinkler head does not pop up or retract fully.	Obstruction around the sprinkler head. Internal debris.	Clear any grass, soil, or debris from around the sprinkler head. Inspect for internal blockages.
Difficulty adjusting spray width or sector.	Mechanism stiff or dirty.	Ensure the adjustment dials are free of dirt. Gently try to adjust again. If persistent, the unit may require cleaning or replacement.
Uneven watering pattern.	Incorrect spray width or sector adjustment. Partially clogged nozzle.	Re-adjust the spray width and sector settings. Check and clean the nozzle for any obstructions.

6. Technical Specifications

Model	MD40 (8231-20)
Brand	Gardena
Irrigated Area	Up to 40 m²
Spray Width (Throw)	2.5 – 3.5 m
Watering Sector	80 – 360 degrees (step-free adjustment)
Connection Thread	1/2 inch Female Thread
Nozzle Type	Rotary Nozzle with Water Smart Technology
Material	Stainless Steel (internal components), Plastic (body)
Item Dimensions (L x W x H)	2.13 x 2.13 x 6.5 inches (54 x 54 x 165 mm)
Item Weight	0.11 Kilograms (0.24 lbs)
Maximum Flow Rate	5 Liters Per Minute

7. Warranty Information

Gardena products are manufactured to high quality standards and are subject to strict quality controls. For specific warranty terms and conditions applicable to your Gardena Sprinkler System Pop-up Sprinkler MD40, please refer to the warranty documentation included with your purchase or visit the official Gardena website. Warranty coverage typically addresses manufacturing defects under normal use.

8. Customer Support

For further assistance, technical support, or inquiries regarding your Gardena Sprinkler System Pop-up Sprinkler MD40, please contact Gardena customer service through their official website or the contact information provided in your product packaging. When contacting support, please have your product model (MD40) and any relevant purchase details available.

You can find more information and support resources on the official Gardena website: www.gardena.com

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