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Gardena MD40/300

Gardena Sprinkler System Pop-up Sprinkler MD40/300

Model: MD40/300 (8233-20)

1. Introduction

The Gardena Sprinkler System Pop-up Sprinkler MD40/300 is designed for efficient and discreet irrigation of small to medium-sized lawn areas, particularly suitable for watering above taller plants. This sprinkler ensures even water distribution and integrates seamlessly into your garden landscape by retracting underground when not in use.

Key Features:

- **Irrigation for Taller Plants:** Waters areas up to 40 m² and extends to reach above taller plants with its 300 mm piston.
- **Tool-free Adjustment:** Allows for easy, step-free adjustment of spray width and sector (80 to 360 degrees).
- **Water-saving Rotating Nozzles:** Features Water Smart technology to improve water absorption and reduce water consumption by up to 30% compared to traditional spray nozzles.
- **Compatibility:** Easily replaces old sprinklers with 3/4 inch male thread connections and is compatible with other Gardena MD, T, and OS models.



Image 1.1: The Gardena Pop-up Sprinkler MD40/300 highlighting its features: maximum 40 m² coverage, water saving, 2.5-3.5 m range, 80-360° adjustable sector, and 3/4 inch connection.

2. Safety Information

WARNING:

- Keep electrical components dry.
- Do not install near power lines or in wet locations.
- Always turn off power before servicing.
- Avoid digging in areas with underground utilities.
- Keep out of reach of children.
- Do not use in areas where water may cause damage to electrical components.

3. Product Overview

The MD40/300 Pop-up Sprinkler is constructed from durable plastic, designed for longevity and reliable performance in various garden environments. Its compact design allows for discreet underground installation.





Image 3.1: Side view of the Gardena Pop-up Sprinkler MD40/300, showing its compact and robust design.



Image 3.2: Dimensions of the Gardena Pop-up Sprinkler MD40/300, measuring 42.2 cm (16.6 inches) in height and 7 cm (2.8 inches) in width.

4. Setup

Proper installation is crucial for optimal performance of your Gardena Pop-up Sprinkler MD40/300. This sprinkler is designed for underground installation, ensuring it remains hidden when not in operation.

4.1 Installation Steps

1. **Plan Layout:** Determine the optimal placement for your sprinkler to ensure maximum coverage of your desired area, considering the adjustable range of 2.5-3.5 meters.

2. **Dig Trench:** Excavate a trench deep enough to accommodate the sprinkler body and connecting pipes, ensuring the top of the sprinkler head will be flush with the ground level when retracted.
3. **Connect to Water Supply:** Connect the sprinkler to your irrigation system using a 3/4 inch female thread connection. Ensure all connections are secure and watertight.
4. **Position Sprinkler:** Place the sprinkler in the trench, ensuring it is level and stable. The sprinkler should be positioned so that its pop-up mechanism can extend freely.
5. **Backfill Trench:** Carefully backfill the trench with soil, ensuring no debris enters the sprinkler mechanism. Compact the soil gently around the sprinkler.

4.2 Compatibility

The MD40/300 is designed to be easily integrated into existing Gardena Sprinkler Systems. It can be combined with other MD models (MD40, MD80, MD180), as well as all turbine pop-up sprinklers and the square pop-up sprinkler (8223-20).





Image 4.1: Cutaway view of the sprinkler, illustrating the internal filter and pop-up mechanism, which helps prevent dirt ingress.

5. Operating Instructions

The Gardena Pop-up Sprinkler MD40/300 offers flexible adjustment options to customize your irrigation.

5.1 Adjusting Spray Width and Sector

The spray width and the sector to be watered can be adjusted without the need for tools. This allows for precise adaptation to your lawn's shape and size.

- **Spray Width:** The throw distance can be adjusted between 2.5 meters and a maximum of 3.5 meters. Rotate the adjustment ring on the sprinkler head to increase or decrease the spray distance.
- **Sector Adjustment:** The watering sector can be set from 80 degrees to a full 360 degrees. Use the designated adjustment points on the sprinkler head to define the start and end points of the watering area.



Image 5.1: Top view of the sprinkler head, showing the adjustment rings for spray width (2.5-3.5m) and sector (80-360°).

5.2 Water-saving Rotating Nozzles

The integrated rotating nozzles utilize Water Smart technology, which ensures improved water absorption by plants. This design can lead to up to 30 percent water savings compared to conventional spray-nozzle sprinklers.



Image 5.2: The sprinkler in operation, demonstrating its effective water distribution across a lawn.



Image 5.3: The sprinkler effectively watering an area with taller plants, showcasing its extended reach.

6. Maintenance

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

6.1 Filter Cleaning

The MD40/300 features a built-in filter and a twin pop-up system, making it highly dirt-resistant. However, periodic inspection and cleaning of the filter are recommended, especially if you notice reduced spray performance.

1. **Turn Off Water Supply:** Before any maintenance, ensure the water supply to the sprinkler system is completely shut off.
2. **Access Sprinkler Head:** Carefully excavate around the sprinkler head to access its base if necessary.
3. **Remove Filter:** Unscrew the top part of the sprinkler or follow the manufacturer's specific instructions to access and remove the internal filter.
4. **Clean Filter:** Rinse the filter under running water to remove any accumulated dirt or debris. Use a soft brush if necessary for stubborn particles.
5. **Reassemble:** Reinsert the clean filter and reassemble the sprinkler head, ensuring all parts are securely fastened.
6. **Test System:** Turn the water supply back on and test the sprinkler for proper operation.

6.2 Winterization

In regions subject to freezing temperatures, it is essential to winterize your sprinkler system to prevent damage. Consult your irrigation system's main manual for specific winterization procedures, which typically involve draining water from the lines and sprinklers.

7. Troubleshooting

If you encounter issues with your Gardena Pop-up Sprinkler MD40/300, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Reduced spray distance or uneven spray pattern	Low water pressure, clogged nozzle/filter, debris in sprinkler head.	Check water supply pressure. Clean the internal filter (refer to Section 6.1). Inspect nozzle for blockages and clear any debris.
Sprinkler does not pop up or retract fully	Low water pressure, dirt/debris obstructing the pop-up mechanism, damaged spring.	Verify adequate water pressure. Clean around the sprinkler head and check for obstructions. If spring is damaged, replacement may be necessary.
Inaccurate or changing spray sector adjustment	Adjustment mechanism not securely set, internal wear.	Ensure adjustment rings are firmly set after desired sector is selected. If the issue persists, the internal mechanism may be worn and require replacement.
Water leaking from base of sprinkler	Loose connection, damaged seal, cracked casing.	Tighten connections. Inspect and replace any damaged seals. If the casing is cracked, the sprinkler unit may need to be replaced.

8. Specifications

- **Model:** MD40/300
- **Product Number:** 8233-20
- **Brand:** Gardena
- **Material:** Plastic
- **Color:** Black
- **Style:** Pop-Up

- **Item Dimensions (L x W x H):** 2.76 x 2.13 x 16.61 inches (7 x 5.4 x 42.2 cm)
- **Maximum Coverage Area:** 40 m²
- **Adjustable Range:** 2.5 – 3.5 meters
- **Adjustable Sector:** 80 – 360 degrees
- **Connection Thread:** 3/4 inch Female Thread
- **Maximum Pressure:** 50 PSI (Pound per Square Inch)
- **Maximum Flow Rate:** 1000 Liters Per Minute
- **Weight:** 285 g (0.6 lbs)

9. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official Gardena website. Gardena products are designed for quality and durability, and support is available for any product-related inquiries.

Contact Information:

- Visit the Gardena Store on Amazon for product information and support resources.
- Refer to your product packaging for specific customer service contact details.

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