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Gardena OS 140 (8223-20)

Gardena OS 140 Pop-Up Rectangular Sprinkler Instruction Manual

Model: OS 140 (8223-20)

1. INTRODUCTION

The GARDENA recessed square sprinkler OS 140 is designed for efficient watering of square and rectangular surfaces ranging from 2 to 140 square meters. This compact sprinkler offers a casting range of 2-15 meters and a blasting width of up to 9.5 meters. Fine adjustment of the irrigated area is achieved through a quantity adjustment mechanism. An integrated dirt filter helps prevent the ingress of debris, ensuring reliable operation.

2. SAFETY INFORMATION

- Always read and understand all instructions before installing and operating the sprinkler.
- Ensure all connections are secure to prevent leaks and water waste.
- Do not operate the sprinkler with damaged parts.
- Keep children and pets away from the sprinkler during operation.
- Disconnect water supply before performing any maintenance or adjustments.

3. PACKAGE CONTENTS

The package includes:

- 1x Gardena OS 140 Pop-Up Rectangular Sprinkler

4. SETUP

4.1 Installation

The Gardena OS 140 sprinkler is designed for convenient installation as part of an in-ground irrigation system. It features a 3/4-inch female NPT pipe thread connection at the bottom.







Image 1: The Gardena OS 140 Pop-Up Rectangular Sprinkler in its retracted position, ready for installation.

1. **Excavation:** Dig a hole approximately 14 inches in diameter and 12 inches deep at the desired location for the sprinkler.
2. **Base Preparation:** Place about 3 inches of pea gravel and fine sand at the bottom of the hole to provide a stable base and protect the pipe connection.
3. **Pipe Connection:** Connect the sprinkler to your irrigation lateral line. A 90-degree threaded/glued elbow is often used for direct PVC connections. Ensure a watertight seal. Note that a standard USA garden hose may require a specific adapter to connect to the 3/4-inch NPT thread.
4. **Positioning:** Seat the sprinkler into the prepared hole, ensuring it is flush with the ground level. The ribbed body helps secure the sprinkler in place.
5. **Backfill:** Carefully backfill the remainder of the hole with soil, tightly packing it around the sprinkler body to prevent tilting.
6. **Directional Adjustment:** Once installed, the sprinkler body cannot be rotated. However, the spray head can be easily positioned to face the correct direction by turning it clockwise. The pop-up mechanism is designed to allow this adjustment without overtightening.

4.2 Frost Protection

For regions subject to freezing temperatures, it is recommended to install a drainage valve within the pipe network. This allows for proper draining of the system, making it frost-proof and preventing damage to the sprinkler and pipes.

5. OPERATING

5.1 Adjusting Spray Area and Range

The Gardena OS 140 features 16 flexible precision nozzles for even water distribution. The spray pattern and range are adjustable to suit your specific lawn or garden area.



Image 2: The Gardena OS 140 Sprinkler in operation, showing its oscillating spray pattern covering a lawn area.

1. **Accessing Adjustments:** To adjust the spray settings, gently pull off the top cover of the sprinkler head. This will expose the adjustment levers.
2. **Width Adjustment:** Use the two levers to independently adjust the left and right sides of the spray width. This allows for precise shaping of the rectangular area.
3. **Length/Distance Adjustment:** A flow rate valve is present to adjust the distance of the spray. This control allows you to set the forward and back limits of the oscillation, effectively controlling the casting range (2-15 meters).
4. **Volume Regulation:** The sprinkler also features a volume regulation option for fine-tuning the overall water output, which can further influence the spray distance and intensity.



Image 3: A close-up view of the Gardena OS 140 sprinkler head, highlighting the adjustment controls for spray width and distance.

5.2 Water Pressure Requirements

The sprinkler requires a minimum operating pressure of approximately 28 PSI to ensure the pop-up mechanism functions correctly and to achieve optimal spray performance. The spring mechanism is robust, ensuring the sprinkler retracts fully when the water supply is off.

6. MAINTENANCE

6.1 Cleaning the Filter

The Gardena OS 140 is equipped with an integrated dirt filter to prevent clogging. Regular cleaning of this filter is essential for maintaining optimal performance.

1. **Accessing the Filter:** To access the filter, unscrew the sprinkler head counter-clockwise. This can be done without special tools.
2. **Removing the Filter:** Once the head is removed, the filter will be accessible. The spring mechanism remains secured in the bottom part of the unit.
3. **Cleaning:** Rinse the filter under running water to remove any accumulated dirt or debris. For stubborn clogs, a soft brush may be used.
4. **Reassembly:** Reinsert the clean filter and screw the sprinkler head back on clockwise until secure.

6.2 Winterization

Before the first frost, ensure your irrigation system, including the OS 140 sprinkler, is properly drained to prevent damage from freezing water. If a drainage valve is installed, activate it to clear water from the lines. Consult your irrigation system's overall winterization guidelines.

7. TROUBLESHOOTING

- **Sprinkler not popping up:** Check water pressure. Ensure it meets the minimum 28 PSI requirement. Inspect for clogs in the filter or nozzles.
- **Uneven spray pattern:** Clean the nozzles and filter. Verify that the spray width and distance adjustments are correctly set.
- **Reduced spray distance:** Check water pressure. Clean the filter. Ensure the flow rate valve is fully open if maximum distance is desired.
- **Leaks around the head:** Ensure the sprinkler head is securely screwed onto the body. Check for any damage to the O-rings or seals.
- **Sprinkler not retracting:** Inspect for debris obstructing the pop-up mechanism. The spring is strong, so obstructions are the most likely cause.

8. SPECIFICATIONS

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| Brand | Gardena |
| Model Number | 08223-20 |
| Style | Oscillating |
| Material | Plastic |
| Color | Black, Turquoise |
| Item Dimensions (L x W x H) | 9.06 x 3.94 x 3.94 inches |
| Item Weight | 2.05 pounds |
| Maximum Flow Rate | 1000 Liters Per Hour |
| Coverage Area | 2 m ² to 140 m ² |
| Casting Range | 2-15 meters |
| Blasting Width | Up to 9.5 meters |

9. WARRANTY

Gardena products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty information provided with your purchase or visit the official Gardena website. Keep your proof of purchase for any warranty claims.

10. SUPPORT

For further assistance, technical support, or to inquire about replacement parts, please contact Gardena

customer service. You can find contact information and additional resources on the official Gardena website or by visiting the [Gardena Store on Amazon](#).