

[Manuals.plus](#) /

› [Rain Bird](#) /

› Rain Bird 42SASPG 42SA Gear Drive Rotor Sprinkler Instruction Manual

Rain Bird 42SASPG

Rain Bird 42SASPG 42SA Gear Drive Rotor Sprinkler Instruction Manual

Model: 42SASPG

INTRODUCTION

The Rain Bird 42SASPG 42SA Gear Drive Rotor Sprinkler is designed for efficient lawn and garden watering. Mounted on a robust powder-coated metal stake, it delivers reliable performance. Featuring intuitive adjustments and impressive coverage uniformity, this sprinkler ensures even watering, reducing water consumption and promoting healthier turf. The patented Rain Curtain nozzle technology provides a consistent, wind-resistant rotating curtain of large water droplets. Micro-ramps direct spray near the sprinkler head to eliminate dry spots. Ideal for large lawn and garden areas, the professional-grade rotor offers an adjustable spray distance of 7.6 to 11.5 meters (26-38 feet) and a pattern from 40° to 360° (preset to 180°).







Image: The Rain Bird 42SASPG 42SA Gear Drive Rotor Sprinkler, showing its full assembly on a green stake.

SETUP

Follow these steps to set up your Rain Bird 42SASPG sprinkler:

1. **Unpack:** Carefully remove the sprinkler from its packaging.
2. **Placement:** Insert the robust metal stake firmly into the ground in the desired watering area. Ensure the sprinkler head is upright and stable.
3. **Connection:** The heavy-duty 3/4 inch Female Hose Thread (FHT) metal inlet connects to all standard garden hoses. Attach your garden hose securely to the sprinkler inlet.



Image: Diagram of the Rain Bird 42SASPG sprinkler highlighting key features such as coverage area, 3/4" garden hose thread inlet, heavy-duty 8" metal step stake, Rain Curtain technology, adjustable pattern (40-360°), and spray distance (26-38 ft).

OPERATING INSTRUCTIONS

The Rain Bird 42SASPG sprinkler allows for easy adjustment of both spray pattern (arc) and distance.

Adjusting Spray Pattern (Arc)

The sprinkler's arc is adjustable from 40° to 360°.

1. **Find Fixed Left Edge:** Rotate the sprinkler shaft to the right until it stops, then rotate it to the left until it stops. This establishes the fixed left edge. Rotate the entire rotor case to align this left edge to your desired starting point for water rotation.
2. **Adjust Pattern:** Use a flat-bladed screwdriver to turn the arc adjustment screw located on the top of the sprinkler. Turn clockwise to increase the arc or counter-clockwise to decrease it. The pattern can be adjusted between 40° and 360°.

Important Note:

- Do not force the rotor past the fixed left edge, as this may strip the internal gears.
- When adjusting the arc while the rotor is operating, only turn the arc adjustment screw in the direction the rotor is already turning. Turning it against the direction it is already turning can damage the rotor by stripping the gears.

Rain Bird® Simple Adjust Series Rotors

Operating Instructions for 32SA, 42SA, 42SA+, 52SA Series

1. Find and set the fixed LEFT edge.

First, turn the center cap of the rotor all the way to the right until it stops. Then turn it to the left until it stops. This is your fixed left edge. Rotate the entire rotor case to align the left edge into the correct position. This is the starting point from which water rotation will begin.

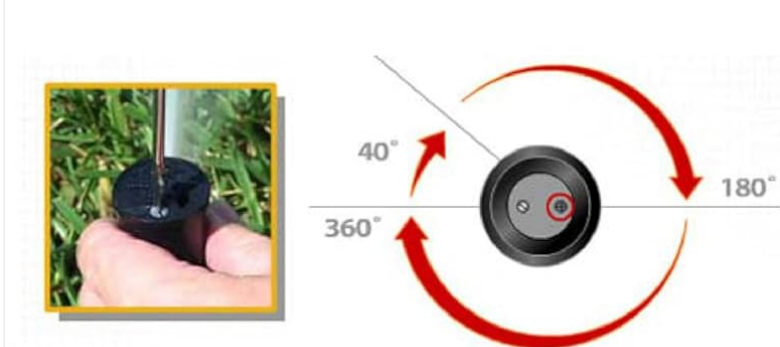
⚠ NOTE: Do not force the rotor past the fixed left edge as it may strip the internal gears.



2. Adjust the arc pattern

The arc is preset to rotate 180° or a half circle. Using a flat-bladed screwdriver, turn the arc adjustment screw clockwise (+) to increase the arc or counterclockwise (-) to decrease the arc. The pattern is adjustable from 40° to 360°. These adjustments can be made while the water is on or off.

⚠ NOTE: when adjusting the arc while the rotor is operating, only turn the arc adjustment screw in the direction the rotor is already turning. Turning it against the direction it is already turning can damage the rotor by stripping the gears.



3. Adjust the spray distance

With the water on or off, you can adjust the distance of throw. Using a flat-bladed screwdriver, turn the radius reduction screw to decrease the spray distance up to 25%.

⚠ NOTE: Do not back out the reduction screw so far that it does not sit in front of nozzle while watering. This will allow water pressure to push rotor nozzle out into watering area and it can be difficult to find.

Image: A hand using a screwdriver to adjust the spray pattern on the top of the sprinkler head. This image illustrates how to increase or decrease the pattern from 40° to 360°.

Adjusting Spray Distance (Radius)

The spray distance can be adjusted from 7.6 to 11.5 meters (26-38 feet).

1. **Adjust Distance:** Use a flat-bladed screwdriver to turn the radius reduction screw (also known as the forward screw) on the top of the sprinkler. Turning this screw will decrease the spray distance by up to 25%.

Important Note:

- Do not back out the reduction screw so far that it no longer sits in front of the nozzle while watering. This can cause the nozzle to be pushed out by water pressure, making it difficult to locate.
- While the spray distance can range from 19-32 feet, the reduction screw only reduces the distance by up to 25%. Any further increase or reduction in distance requires changing rotor nozzles or adjusting water pressure.

NOTE: Though the spray distance can range from 19-32 feet, the reduction screw can only reduce the distance by 25%. Any other increase or reduction in distance must be accomplished through changing rotor nozzles or changing water pressure.

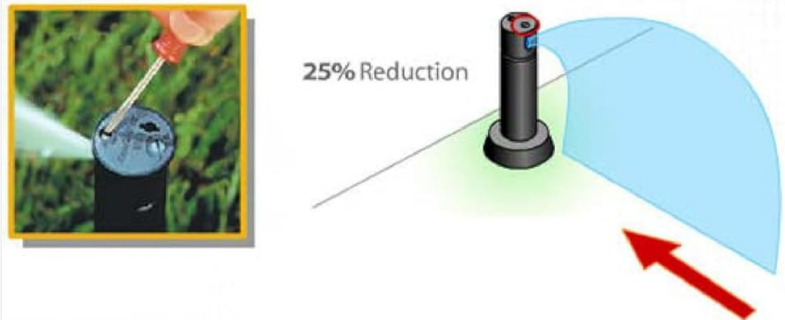


Image: A hand using a screwdriver to adjust the spray distance on the top of the sprinkler head. This image demonstrates how to adjust the distance by turning the forward screw.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Rain Bird sprinkler.

- **Cleaning Nozzle:** The pre-installed 3 gallons per minute nozzle is easily removable. Regularly check the nozzle for debris such as dirt or small particles and clean if necessary to maintain optimal spray performance.
- **Filter Inspection:** Periodically inspect the inlet filter for any blockages. A clogged filter can reduce water flow and affect performance. Clean the filter by rinsing it under running water.
- **Durability:** The water-lubricated, gear-driven design ensures long-lasting reliability. Additional seals protect against hard and dirty water, minimizing the need for frequent internal maintenance.
- **Nozzle Replacement:** Additional nozzles are available (search model # 4252NZLPK, sold separately) to customize watering based on your specific flow rate and system requirements. Refer to the nozzle chart provided with the replacement kit for selection.





Image: A close-up view of the Rain Bird 42SASPG sprinkler, highlighting the inlet where the filter is located, important for maintenance.

TROUBLESHOOTING

If you encounter issues with your sprinkler, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Uneven Water Coverage	Incorrect arc or distance settings; clogged nozzle.	Adjust arc and distance settings as per operating instructions. Clean the nozzle for any debris.
No Water or Low Pressure	Water supply off; kinked hose; clogged inlet filter or nozzle.	Ensure water supply is on. Straighten any kinks in the hose. Inspect and clean the inlet filter and nozzle.
Sprinkler Not Rotating	Arc adjustment screw overtightened or turned against rotation; internal gear damage.	Ensure arc adjustment screw is not overtightened. Avoid turning the screw against the direction of rotation. If gears are stripped, replacement may be necessary.
Water Spraying Too Far/Not Far Enough	Distance adjustment incorrect; incorrect nozzle for water pressure; water pressure too high/low.	Adjust the radius reduction screw. Consider changing to a different nozzle size (sold separately) or checking your water pressure.

SPECIFICATIONS

- **Model Number:** 42SASPG
- **Brand:** Rain Bird
- **Material:** Plastic and Stainless Steel
- **Dimensions (L x W x H):** 17.1 x 7.1 x 43.9 cm (6.7 x 2.8 x 17.3 inches)
- **Weight:** 390 grams (0.86 lbs)
- **Maximum Pressure:** 55 PSI (Pounds per Square Inch)
- **Maximum Flow Rate:** 3 Gallons per Minute (GPM)
- **Adjustable Pattern:** 40° to 360°
- **Spray Distance:** 7.6 to 11.5 meters (26 to 38 feet) at 45-55 PSI
- **Inlet Size:** 3/4 inch Female Hose Thread (FHT)
- **Color:** Green, Black, Silver, Red
- **Country of Origin:** Mexico

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product packaging or visit the official Rain Bird website. Rain Bird provides customer support for product inquiries, troubleshooting, and parts replacement.

Rain Bird Official Website: www.rainbird.com

For further assistance, please contact Rain Bird customer service directly.