RAIN BIRD 11000 Series Rotor Large Projects Instruction Manual

Rain Bird 11000 Series Rotors
Operations & Maintenance Manual

Instruction Manual

Contents

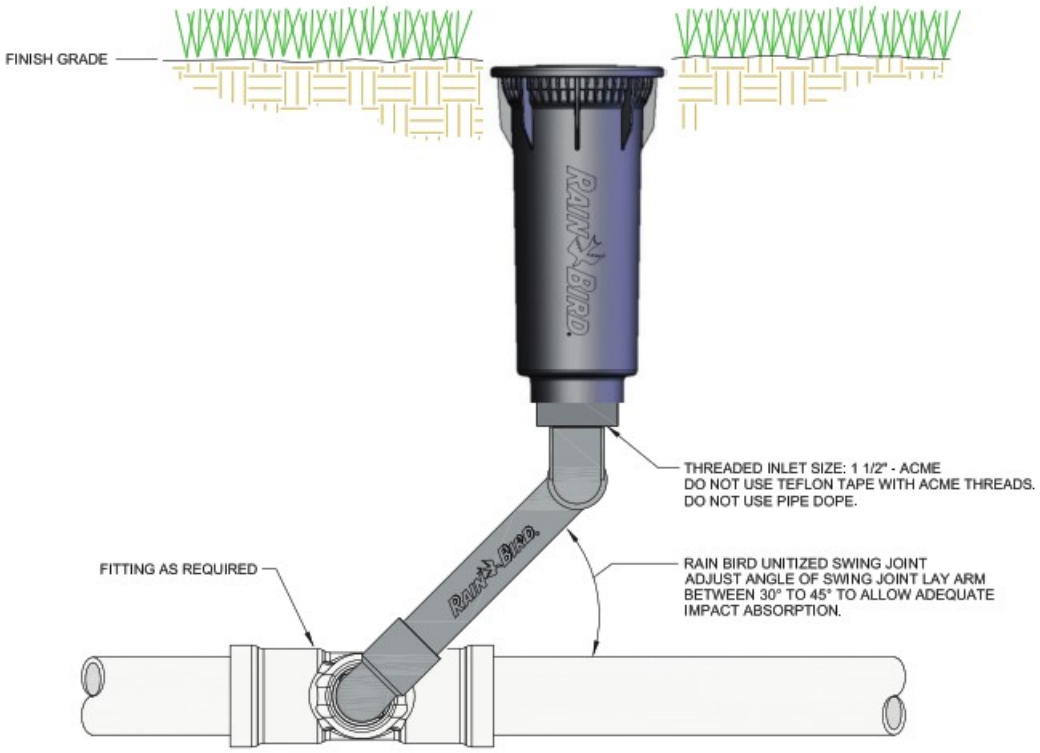
11000 Series Rotor Large Projects

THANK YOU FOR CHOOSING RAIN BIRD.
We are aware that you have a choice, and we are happy you chose Rain Bird. Rain Bird Rotors offer a wide range of features plus easy maintenance. This manual shows how to perform common installation and maintenance procedures. If you have any comments or questions please call your local Rain Bird distributor.

IMPORTANT INSTALLATION & MAINTENANCE TIPS

- To avoid debris problems, flush the system before installing the ROTOR on the swing joints. If debris gets in the line, flush the line.

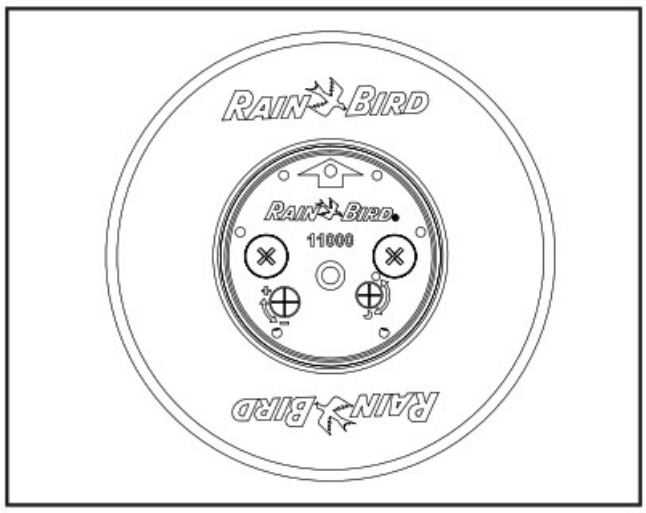
- For ACME thread rotors, you must use an ACME thread swing joint assembly. DO NOT use plumbers tape or pipe dope. Do not tighten completely against swing joint fitting. (Turn the rotor back counter-clockwise one-quarter (¼) of a turn from tightened position.)
- Rain Bird does not recommend using metal fittings with Rain Bird Rotors. If metal fittings must be used, hand tighten only.
- Rain Bird Rotors may be installed at ground level in all soil types.
- For part-circle applications, locate the fixed left edge by rotating the nozzle turret counterclockwise.



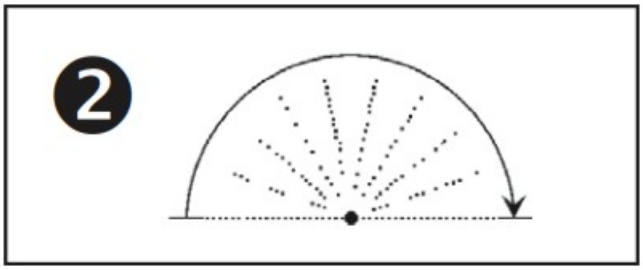
ARC ADJUSTMENT

Required Tool: Flat-head screwdriver

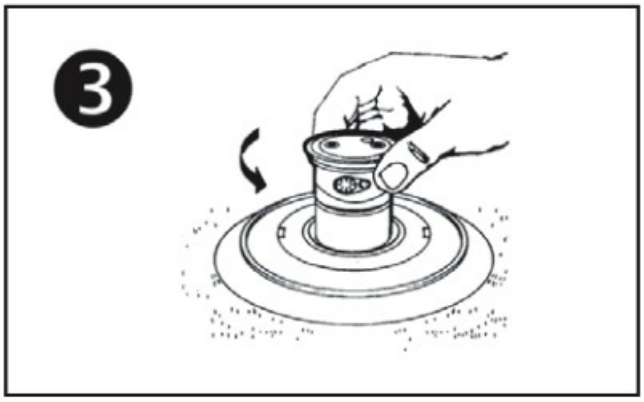
1. The LEFT leg of the sprinkler's arc is the fixed leg.The 11000 Series Rotor is shipped in full circle mode. Align the left leg where it is needed for your desired watering pattern while installing the rotor case on the swing joint.



2. The RIGHT leg of the arc is the adjustable leg. It is shipped from the factory at approximately 180 degrees from the fixed leg.

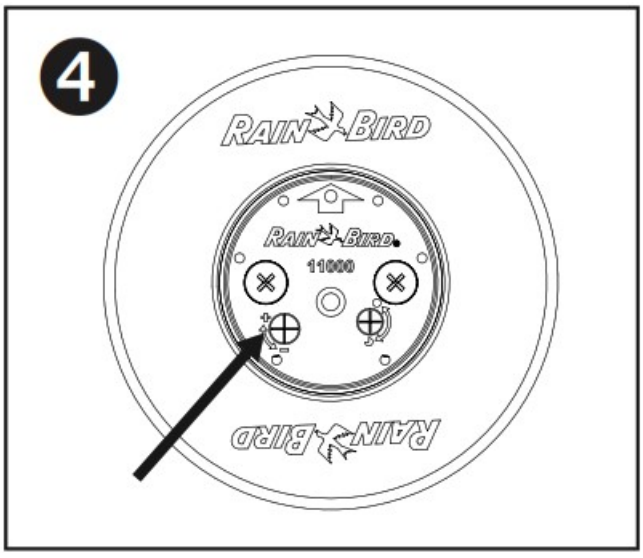


3. For best results, turn the head ON to see where both legs “trip” (the trip point is the point where the rotor turns and begins rotating in the opposite direction). To manually advance the nozzle housing, SLOWLY move it in the same direction it is currently moving. After noting where the head trips, return the head to the left trip point. CAUTION: Do not turn the turret manually against the direction of rotation while in operation.



4. Using a fl at-head screwdriver, turn the arc adjustment screw on top of the nozzle housing to reach your desired arc.

   Turn the screw clockwise to add arc, or counterclockwise to subtract arc. One complete turn of the adjustment screw equals approximately 58 degrees of arc. 11000 Series rotors are adjustable from 30° to 345°.



CAUTION: Turning the arc adjustment past the stop may damage the internal.
Turn on the rotor and let it run through the forward and backward trip points to verify the arc setting. Repeat steps 1 through 4 as needed. You may also pull the internal assembly out of the rotor and adjust the arc. Then reinstall the internal assembly and check for performance.

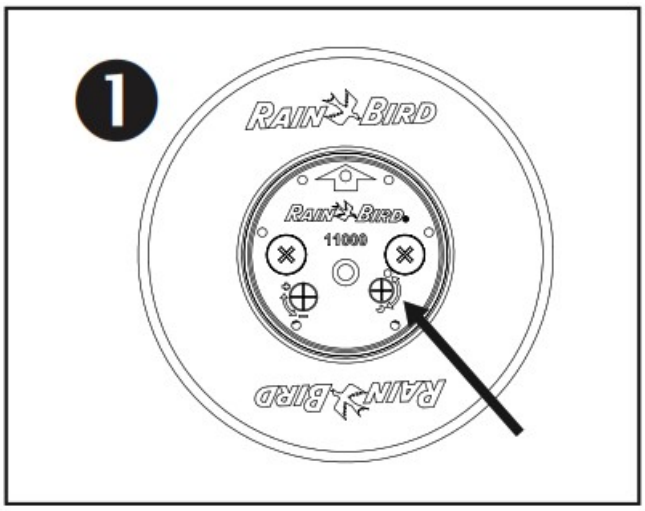
11000 FULL/PART-CIRCLE ADJUSTMENT

Required Tool: Flat-head screwdriver

1. The FULL/PART-CIRCLE choice is madeby turning the white adjustment arrow in the appropriate direction until

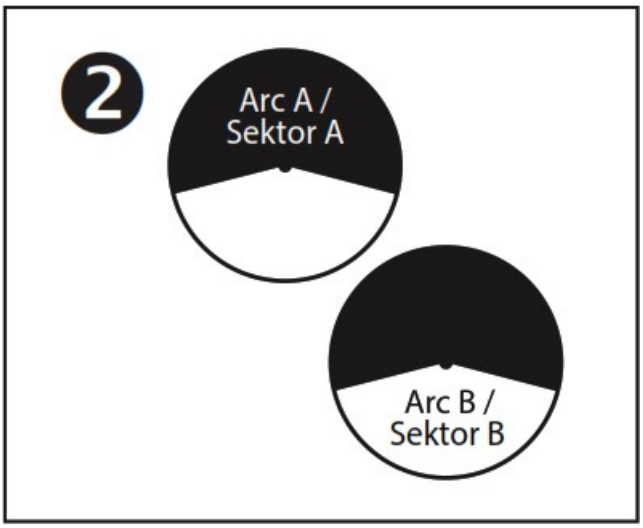
it stops. Towards the HALF CIRCLE for Part-Circle operation.

Towards the SOLID CIRCLE for Full Circle operation. When the white screw is returned to the PART CIRCLE position, the previously set edge adjustments are used.



IMPORTANT NOTE: Apply downward pressure on screw driver to ensure it fully engages into the slot.

2. The 11000 Series rotor can operate in one of two Part Circle arc settings. The primary arc (Arc A) and a secondary arc (Arc B)



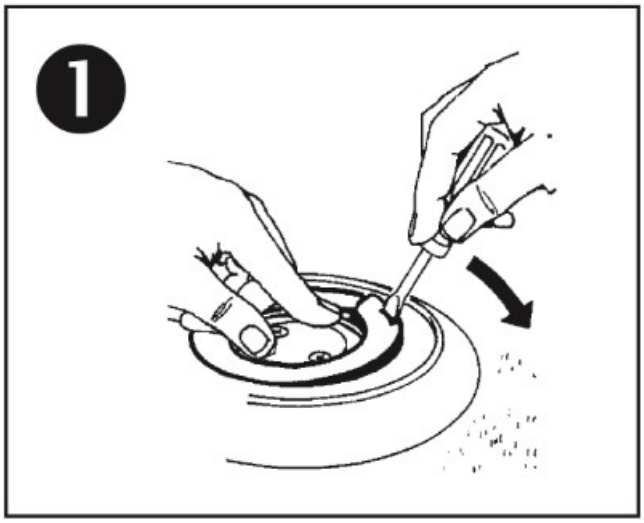
Note: When internal is removed from the case, to ensure the rotor is in the Primary arc, put internal in Full Circle align arrows on riser assembly and nozzle base, then put the unit back into Part Circle mode. Install the internal in case.

2a. To change irrigation from Arc A to Arc B: Turn the Rotor rotation adjustment screw from its PART CIRCLE to FULL CIRCLE setting. Allow the Rotor to turn until the spray direction is in the Arc B range. Turn the Rotor rotation adjustment screw from FULL CIRCLE to PART CIRCLE. Reverse these steps to change back from Arc B to Arc A.

REMOVING THE INTERNAL ASSEMBLY

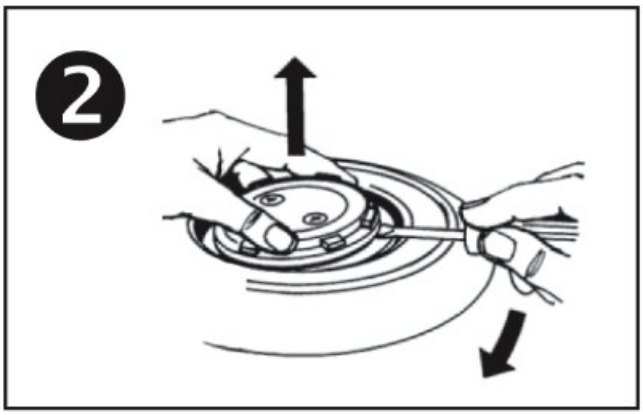
IMPORTANT NOTE: Make sure the sprinkler does not operate automatically while you are removing the internal assembly. Turn off the water.
Clean around the top of the case to prevent debris from falling in when the internal is removed.
Required Tool: Flat-head screwdriver

1. While pressing down on the center of the nozzle housing, insert a screwdriver into the slot on the snap ring and pry up the snap ring from the top of the rotor case.

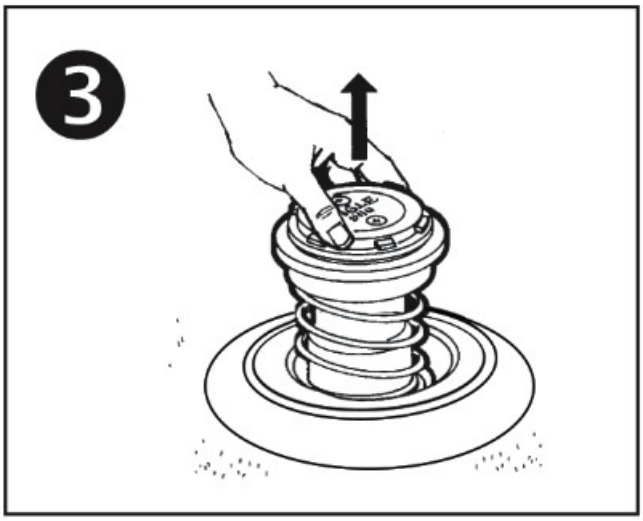


NOTE: You MUST press down on the nozzle housing when removing the snap ring.

2. Insert a flat-head screwdriver into the groove (or under the small tabs) on the outside edge of the bearing guide and use the screwdriver to gently pry up the internal assembly.

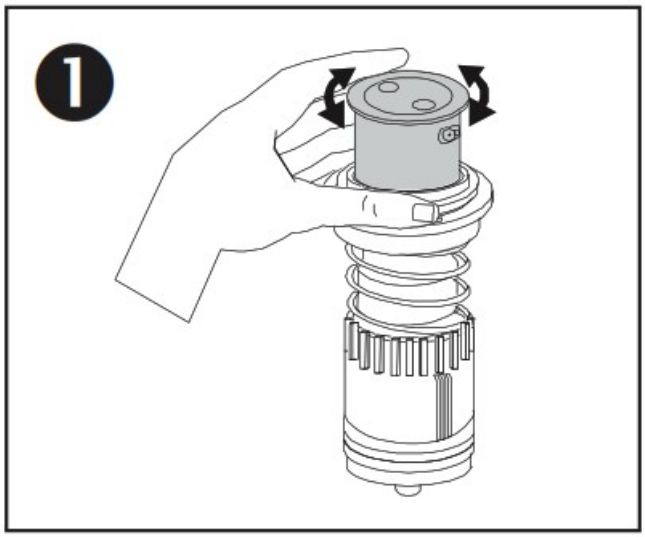


3. Lift the internal assembly up and out of the case.

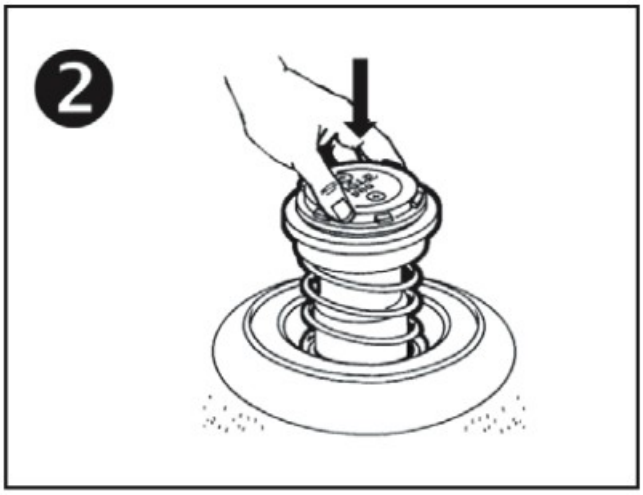


INSTALLING THE INTERNAL ASSEMBLY

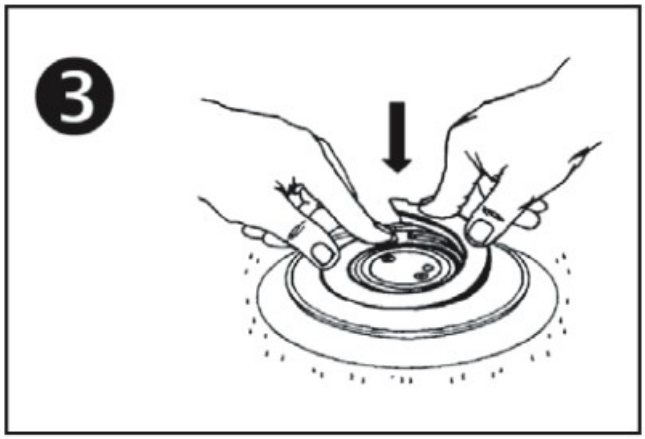
1. PART-CIRCLE ROTORS: To fi nd the left-stop, turn the nozzle housing to the right until it reaches its “trip” point. Then turn the nozzle housing back to the left until it “trips” again. The location of the arrow on top of the nozzle housing indicates the direction of the nozzle.
   Align the arrow on the nozzle housing with the left edge of the grass line (left edge of your watering pattern). Then make your right arc adjustment.



2. Lower the internal assembly back into the case and press down firmly until the internal assembly seats securely and evenly in the case.



3. Clean and position the snap ring in the groove on the top of the rotor case with the bottom of the snap ring facing down.



Press the end of the snap ring without the screwdriver slot into the groove. Press and twist the snap ring down in a circular motion until it is installed about two-thirds of the way.

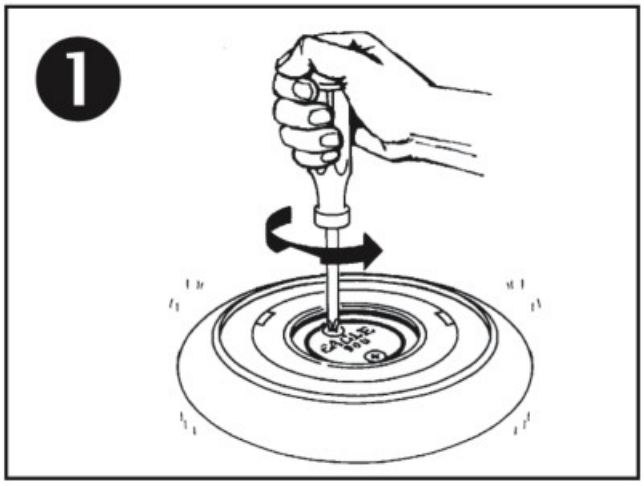
Step on or pound the snap ring (with a screwdriver handle or a similar tool) to insert it the rest of the way. Make sure the snap ring fastens securely in place and is flush with the top of the rotor case.

FULL-CIRCLE MODELS: Installing the full-circle internal assembly is the same as the part-circle, except that you do not need to adjust the arc.

REPLACING THE NOZZLE

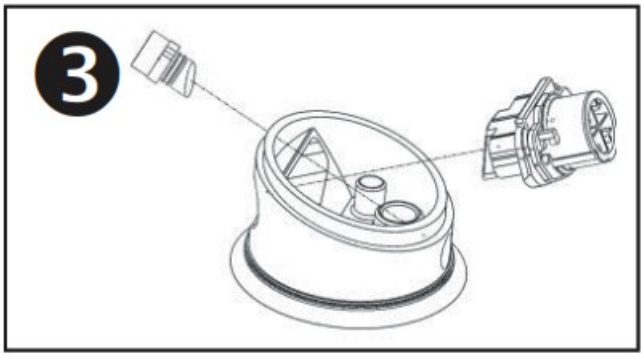
IMPORTANT NOTE: Make sure the sprinkler does not operate automatically while you are changing the nozzle. Turn off the water.
NOTE: Make sure the snap ring is securely in place before removing the nozzle housing screws.
Clean top of case assembly to prevent debris from falling in when nozzle housing is removed.
Required Tools: Phillips-head screwdriver; Flat-head screwdriver.

1. Use a Phillips-head screwdriver to loosen the nozzle housing screws.

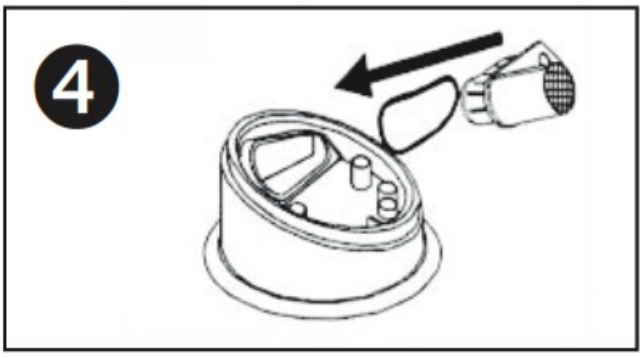


2. Grasp the nozzle housing screws and lift up to separate the nozzle housing from the internal.

3. Press the replacement nozzle assembly into the nozzle housing, making sure the nozzle front is flush with the outside of the housing.



4. An O-ring seal is required on all nozzles.



CAUTION: If the nozzle is not flush and seated properly in the nozzle housing, the rotor may not perform properly.

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At Rain Bird, we believe it is our responsibility to develop products and technologies that use water efficiently. Our commitment also extends to education, training and services for our industry and our communities.
The need to conserve water has never been greater. We want to do even more, and with your help, we can. Visit www.rainbird.com for more information about The Intelligent Use of Water.™

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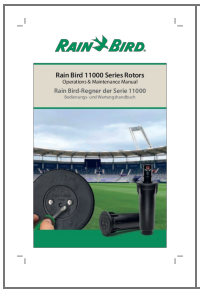
Documents / Resources

	RAIN BIRD 11000 Series Rotor Large Projects [pdf] Instruction Manual 11000, 11000 Series, 11000 Series Rotor Large Projects, Rotor Large Projects, Large Projects, Projects

References

- Rain Bird | A Global Irrigation Company