

STANDARD NOZZLES

Nozzle	psi	Radius		Precip. in./hr.		Nozzle	psi	Radius		Precip. in./hr.	
		ft.	GPM	■	▲			ft.	GPM	■	▲
1	30	28'	.5	.06	.07	7	30	36'	2.6	.19	.22
	40	29'	.6	.07	.08		40	40'	3.0	.18	.21
	50	29'	.7	.08	.09		50	42'	3.4	.19	.21
2	60	30'	.8	.09	.10	60	42'	3.7	.20	.23	
	30	29'	.7	.08	.09	30	37'	3.2	.22	.26	
	40	30'	.8	.09	.10	40	40'	3.7	.22	.26	
3	50	30'	.9	.10	.11	50	43'	4.2	.22	.25	
	60	31'	1.0	.10	.12	60	44'	4.6	.23	.26	
	30	30'	.9	.10	.11	30	38'	4.2	.28	.32	
4	40	31'	1.0	.10	.12	40	43'	4.9	.26	.29	
	50	31'	1.2	.12	.14	50	46'	5.5	.25	.29	
	60	32'	1.3	.12	.14	60	47'	6.0	.26	.30	
5	30	32'	1.2	.11	.13	40	45'	6.0	.29	.33	
	40	33'	1.4	.12	.14	50	48'	6.8	.28	.33	
	50	34'	1.6	.13	.15	60	49'	7.6	.30	.35	
6	60	34'	1.8	.15	.17	70	51'	8.2	.30	.35	
	30	34'	1.6	.13	.15	40	46'	8.0	.36	.42	
	40	36'	1.8	.13	.15	50	48'	8.9	.37	.43	
7	50	38'	2.0	.13	.15	60	50'	9.8	.38	.44	
	60	38'	2.2	.15	.17	70	51'	10.5	.39	.45	
	30	36'	2.0	.15	.17	40	46'	11.4	.52	.60	
8	40	38'	2.4	.16	.18	50	48'	12.2	.51	.59	
	50	40'	2.7	.16	.19	60	50'	13.2	.51	.59	
	60	40'	2.9	.17	.20	70	52'	14.4	.51	.59	

Data represent test results in zero wind. Adjust for local conditions. Radius can be reduced by up to 30% with nozzle retaining screw. (This may alter the uniformity of the spray pattern.)

■ Denotes square spacing. ▲ Denotes equilateral triangular spacing.

Your Voyager II™ Pop-Up Sprinkler comes with a pre-installed, Standard #7 nozzle.

LOW ANGLE NOZZLES

Nozzle	psi	Radius		Precip. in./hr.		Nozzle	psi	Radius		Precip. in./hr.	
		ft.	GPM	■	▲			ft.	GPM	■	▲
4	30	22'	1.4	.28	.32	7	30	29'	2.8	.32	.37
	40	24'	1.7	.28	.33		40	37'	3.5	.28	.32
	50	26'	1.8	.26	.30		60	37'	3.8	.27	.31
60	28'	2.0	.25	.28	30	31'	3.4	.34	.39		
5	30	25'	1.6	.25	.28	40	34'	3.9	.32	.37	
	40	27'	1.9	.25	.29	50	37'	4.4	.31	.36	
	50	28'	2.1	.26	.30	60	38'	4.7	.31	.36	
60	30'	2.3	.25	.28	30	33'	4.3	.38	.44		
6	30	27'	2.1	.28	.32	40	37	5.0	.35	.41	
	40	30'	2.5	.27	.31	50	40'	5.6	.34	.39	
	50	33'	2.8	.25	.29	60	42'	6.1	.33	.38	
60	35'	3.0	.24	.27	40	38'	6.5	.43	.50		
7	30	29'	2.8	.32	.37	50	40'	7.3	.44	.51	
	40	32'	3.1	.29	.34	60	42'	8.0	.44	.50	
	50	35'	3.5	.28	.32	70	44'	8.6	.43	.49	
60	37'	3.8	.27	.31	P	Blank nozzle plug for turning off selected sprinklers during repairs, maintenance, etc.					
30	31'	3.4	.34	.39							
40	34'	3.9	.32	.37							
8	50	37'	4.4	.31	.36						
	60	38'	4.7	.31	.36						
	30	33'	4.3	.38	.44						
9	40	37	5.0	.35	.41						
	50	40'	5.6	.34	.39						
	60	42'	6.1	.33	.38						
10	40	38'	6.5	.43	.50						
	50	40'	7.3	.44	.51						
	60	42'	8.0	.44	.50						
70	44'	8.6	.43	.49							

CAUTION

For outdoor use with cold water only.
Do not spray near electrical connections.



Orbit Irrigation Products, Inc.

Technical Customer Service

1-800-488-6156

www.orbitonline.com

PN 55060-04 Rev B

Voyager II™

Pop-Up & Above Ground Sprinkler Instructions



- Replaces or works with most types of impact or gear drive sprinkler systems including Hunter®, Toro® & Rainbird®.

- 40°-360° adjustable arc for fast, hassle-free adjustment, wet or dry.

- Comes with pre-installed, Standard #7 nozzle.

- Set of 12 interchangeable nozzles included.

- Adjustment key included.

- Detailed installation instructions inside.

- Set of 7 low-angle nozzles available (Model 55072, sold separately).



Pre-Set the Rotation

Voyager II® sprinklers are preset to rotate approximately 180°. Sprinklers may be adjusted with water on or off. It is recommended that initial adjustment be made before installation.

1. Using the palm of your hand, rotate the nozzle turret counterclockwise to the left stop to complete any interrupted rotation cycle. (See Figure 1.)
2. Rotate the nozzle turret clockwise to the right stop. This is the fixed side of the arc. The nozzle turret must be held in this position for all arc adjustments.



Figure 1

To Increase the Arc

1. Insert the plastic end of the Orbit® key (Model 55070) into the pattern adjustment socket. (See Figures 2 & 5.)
2. While holding the nozzle turret at the right stop, turn the key clockwise. Each full turn of the key increases the arc 90°.
3. Adjust to any arc between 40° & 360°.
4. When the maximum arc (360°) is reached, the key will stop turning or there will be a ratcheting noise.



Figure 2

To Decrease the Arc

1. Insert the plastic end of the Orbit® key into the pattern adjustment socket. (See Figures 2 & 5.)
2. While holding the nozzle turret at the right stop, turn the key counterclockwise. Each full turn of the key decreases the arc 90°.
3. Adjust to any arc between 40° and 360°.
4. When the minimum arc (40°) is reached, the key will stop turning or there will be a ratcheting noise.

Sprinkler Installation Flush Lines

1. Turn the water on to thoroughly flush the lines of dirt and debris before installing any sprinkler heads.

Install the Sprinkler Head

1. Complete steps 1 and 2 under "Pre-Set the Rotation".
2. **Pop-Up** (Model 55060) Select and install a riser to obtain the proper height. (See Figure 3.) When the sprinkler is buried the cap should be flush with the finish grade.

Above Ground (Model 55062)

Select and install a riser height so the sprinkler spray will clear surrounding vegetation.

3. Thread the sprinkler onto the riser. When the threads are snug, visually orient the arrow on top of the cap so that it points at the right stop (See Figure 4) by turning the entire sprinkler head on the riser. When the water is turned on, the sprinkler turret will begin to rotate toward the left stop. **Note:** Do not use pipe dope on the threads. If necessary, use Teflon® tape.
4. Space adjacent heads for overlapping head-to-head coverage.

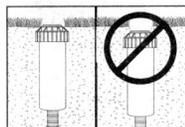


Figure 3

Radius Adjustment

Insert the metal hex end of the Orbit® key into the distance adjustment socket. (See Figure 5.) Turn the screw clockwise (into the stream of water) to decrease the radius, or counterclockwise to increase the radius. (Do not rotate the screw too far either way or the nozzle or screw may come out.)

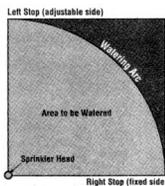


Figure 4

Precipitation Rate Adjustment

For excessively wet or dry areas, the precipitation rate can be adjusted: replace the existing nozzle with a larger one to increase the rate or a smaller one to decrease the rate of precipitation. **Note:** It is not necessary to disassemble the sprinkler to make adjustments.

Nozzle Installation

Pop-Up (Model 55060)

1. Insert the plastic end of the Orbit® key into the lifting socket (See Figure 5) of the sprinkler. Pull the riser up to gain access to the nozzle socket.
2. While holding the riser up with one hand (See Figure 6), remove the key from the lifting socket and insert the metal hex end into the distance adjustment socket. Loosen the adjustment screw far enough to clear the nozzle. If a nozzle is already installed in the sprinkler, it can be removed by briefly turning on the water, or by pulling on one of the nozzle "ears" with needle-nose pliers.

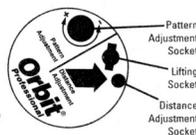


Figure 5

3. Slip the desired nozzle into the nozzle socket. Note that the socket is angled up 25°. Also note that the "ears" should be located at the top. (See Figure 6.) Rotate the adjustment screw in far enough to secure the nozzle.

Above Ground (Model 55062)

1. Insert the metal hex end of the Orbit® key into the distance adjustment socket (See Figure 5) of the sprinkler. Loosen the adjustment screw far enough to clear the nozzle. If a nozzle is already installed in the sprinkler, it can be removed by briefly turning on the water or by pulling on one of the nozzle "ears" with needle-nose pliers.
2. Slip the desired nozzle into the nozzle socket. Note that the socket is angled up 25°. Also note that the "ears" should be located at the top. (See Figure 6.) Rotate the adjustment screw in far enough to secure the nozzle.



Figure 6

Cleaning the Filter:

1. **Pop-Up** (Model 55060)

To access the filter, unscrew the sprinkler from the riser. Unscrew the cap and remove the cap/spring assembly from the body.

Above Ground (Model 55062)

To access the filter, hold the sprinkler's base ring with one hand while unscrewing the sprinkler body with the other (Do not unscrew by grasping the upper nozzle turret.)

2. The filter can be pulled out from the bottom of the assembly and cleaned. Use pliers, if necessary.
3. **Pop-Up** (Model 55060)

Replace the filter and screw the cap/spring assembly back on the sprinkler body. Reinstall the sprinkler on the riser, being careful not to disturb the surrounding soil.

Above Ground (Model 55062)

Replace the filter and screw the sprinkler body back on the sprinkler base. Reinstall the sprinkler on the riser.

Winterizing Your System:

In freezing climates, your sprinkler system must be drained prior to freezing to prevent damage.

1. Turn off the water supply.
2. Open all valves and manual drains to allow water to escape (compressed air can be used to completely purge the system of water).