

INSTALLATION INSTRUCTIONS I-80 GEAR-DRIVEN ROTORS

I-80 Arc Adjustments

Adjustments (not for "ON" opposing-nozzle models)

All I-80 adjustable arc rotors are preset to approximately 180°. Sprinklers can be adjusted with water on or off. It is recommended that initial arc adjustments be made before installation

- 0 Use your hand to rotate the nozzle turret counterclockwise to the left stop to complete any interrupted rotation cycle.
- Next, 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.
- 3 The ratchet feature allows the right fixed stop to be moved when water is off. Pull the riser up, grab the riser below adjustment ring, and rotate the right fixed arc stop to the desired landscape alignment.

To Increase Arc

1 Slide the adjustment wrench PN 382800SP onto the gray adjustment ring below the nozzle turret (Figure 1).



- 2 While holding the nozzle turret at the right stop, turn the wrench counterclockwise.
- Adjust to any arc between 60° and 360°. The wrench will stop turning when the maximum arc (360°) is reached. When set to 360°, the sprinkler will rotate continually counterclockwise.

To Decrease Arc

- Slide the adjustment wrench PN 382800SP onto the gray adjustment ring below the nozzle turret.
- If the arc is set to less than 360°, hold the nozzle turret at the right stop and turn the wrench clockwise.
- 3 If the arc is set to 360°, turn the wrench clockwise. Then proceed with #2 above to complete the adjustment.
- Adjust to any arc between 60° and 360°. The wrench will stop turning when the minimum arc (50°) is reached.

Radius Adjustment

Individual I-80 nozzles cannot be adjusted to reduce the radius. To change the radius, install a larger or smaller nozzle.

Primary Nozzle Removal and Installation

2 Raise the nozzle-retainer screw by turning

screw clears nozzle opening.

counterclockwise. Raise the screw until the

- Insert the hex-key end of the Hunter wrench into the primary nozzle "arrow" located on the top of the rubber cover.
- 3 Using small needle-nose pliers, firmly insert tip of pliers into the opening below the nozzle (Figure 2). This action will collapse the nozzle's retaining hook (Figure 3). While gripping the nozzle, pull outward to remove.



Figure 2

4 Slip the desired nozzle firmly into the nozzle socket. Lower the nozzle-retainer screw to retain the nozzle.

Short-Range/Mid-Range Nozzle Removal and Installation

Reference the I-80 and I-80-ON performance charts to determine the correct nozzle part number and color.

- 2 Use nozzle installation and removal tool PN 803700SP to service all short-range and mid-range nozzles.
- 3 When facing directly toward the nozzles, short-range nozzles are on the left and midrange nozzles are on the right. To remove a nozzle, firmly align and press the tool against it while turning counterclockwise (Figure 4).
- To install the nozzle, engage the tool to the nozzle. Then carefully align the nozzle to the housing. Use care to prevent cross-threading and turn clockwise (Figure 5).



Figure 5

Figure 6

Figure 7

Figure 9

5 Each short-range and mid-range nozzle has an alignment pointer. Turn the nozzle clockwise until the pointer is facing the 12:00 position (Figure 6).

Stator Adjustments

All I-80 rotors with nozzles #10 through #20 have an automatic self-adjusting stator to control rotation speed (Figure 7).

All I-80 rotors with nozzles #23 through #52 have a manually adjustable stator to control rotation speed (Figure 8).

When the primary nozzle size is changed, the stator must be changed or adjusted to match the nozzle in use. To make stator adjustments, first remove the riser assembly using the instructions below.



- Remove the screen at the base of the riser by grabbing, turning counterclockwise, and lifting away.
- Remove the stator assembly and adjust by turning the black stator plate until the arrow aligns with the nozzle in use (Figure 9).
- Install the stator assembly with the black stator plate facing A the screen. Insert the screen and turn clockwise to lock.

Pop-Up and Riser-Mount Models

All I-80 rotors also have a traditional body cap that must be unscrewed to gain riser assembly access. To facilitate easy riser assembly removal, all I-80 rotors also include a removable snap ring on the body cap. To access the riser assembly using the snap ring, use tool 984400SP.

- Insert the tool into the snap ring's access point (Figure 10). Press downward, slightly twist the tool's handle, and pull upward to remove the snap ring (Figure 11).
- 2 Engage the pull-up socket in the riser's logo cap using the Hunter wrench or T-handle tool PN 319100SP. Pull upward to remove the riser.
- To install the riser assembly, insert the riser into the body. First, install the snap ring's left side. Then press downward in a counterclockwise direction.

Turf Cup Models

All I-80 rotors with turf cups have a removable snap ring on the body cap to facilitate easy riser assembly removal. To gain access to the snap ring, the turf cup must be removed first.

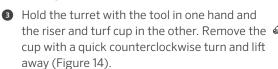




Figure 11



- Pull the turf cup upward using flat-nosed pliers. Hold the riser assembly in the popped-up position.
- Slide the adjustment wrench PN
 991300SP onto the gray or black
 adjustment ring below the nozzle turret.
 Then release the cup downward (Figure 12 and Figure 13).



- Use the Hunter wrench or T-handle tool PN 319100SP to engage the pull-up socket in riser's retainer cap (Figure 15).
- Lift the riser assembly slightly while removing the adjustment wrench PN 991300SP. Then lower the riser assembly into position (Figure 16).

Figure 13

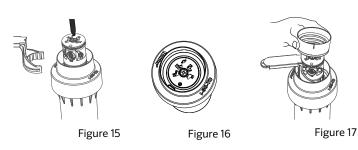
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Figure 12

Figure 14

Use the pop-up riser removal instructions below to complete riser removal and installation.

- To install the turf cup to the top of the riser, the cup must be correctly aligned with the top of the riser assembly.
- 2 Locate the protruding vertical indicator on the outside of the turf cup's vertical surface near the top (Figure 17).
- While holding the turf cup over the riser assembly, orient the turf cup's indicator mark to the riser's nozzle retaining screw.
- While maintaining this orientation, place the turf cup onto the top of the riser. Then turn quickly clockwise to lock the cup to the riser.



I-80 NOZZLE PERFORMANCE DATA*

I-80 NOZZLE PERFORMANCE DATA*											
Nozzle Set			Pressure PSI	Radius ft.	Flow GPM	Precip	in/hr				
Orange		Dk. Green	50	37	8.9	0.63	0.72				
Ô		Ô	60	39	9.8	0.62	0.72				
803603	10	315312	65	41	10.2	0.58	0.67				
005005	Lt. Green	0	_	-	_	-	-				
Orange		White	50	47	11.4	0.50	0.57				
		\bigcirc	60	48	12.3	0.51	0.59				
<u> </u>	13		65	49	12.9	0.52	0.60				
803603	Lt. Blue	315314	-	-	-	-	-				
Orange		White	50	52	12.9	0.46	0.53				
	\bigcirc	Ó	60	52	14.5	0.52	0.60				
	15		65	53	14.9	0.51	0.59				
803603		315314	70	53	15.5	0.53	0.61				
Orange	White	Lt. Green	80 50	54 57	16.5 16.6	0.54	0.63				
			60	58	17.8	0.49	0.57				
U	10		65	59	18.6	0.51	0.59				
803603	18	315313	70	60	19.4	0.52	0.60				
•	Orange	•	80	61	20.5	0.53	0.61				
Orange		Lt. Green	50 60	59 61	17.9 10 E	0.49 0.50	0.57 0.58				
0		0	65	62	19.5 19.8	0.50	0.58				
803603	20	315313	70	63	20.6	0.50	0.58				
•	Tan		80	64	22.1	0.52	0.60				
Orange		Lt. Green	50	65	20.2	0.46	0.53				
Ô		Ô	60	66	22.1	0.49	0.56				
803603	23	315313	65 70	67 67	23.9 24.2	0.51 0.52	0.59 0.60				
005005	Green	010010	80	69	25.9	0.52	0.60				
Red		Green	65	71	28.3	0.54	0.62				
0			70	72	29.3	0.54	0.63				
	25		80	73	31.5	0.57	0.66				
803602	Blue	315310	90 100	74 75	33.4 35.4	0.59 0.61	0.68 0.70				
Red	Dide	Green	65	72	30.6	0.57	0.66				
Ô			70	73	31.6	0.57	0.66				
	33		80	75	33.9	0.58	0.67				
803602		315310	90	77	35.8	0.58	0.67				
Red	Gray	Green	100 65	79 76	37.9 34.9	0.58	0.67				
		Green	70	78	36.2	0.58	0.67				
Ο	20	0	80	80	39.1	0.59	0.68				
803602	20	315310	90	82	41.2	0.59	0.68				
Ded	Red	• •	100	84	43.5	0.59	0.69				
Red	\odot	Green	- 70	- 81	- 41.2	- 0.60	- 0.70				
0	42	0	80	83	43.5	0.61	0.70				
803602	43	315310	90	86	46.2	0.60	0.69				
	Dk. Brown		100	89	48.7	0.59	0.68				
Dk. Red		Dk. Green	-	-	- 46.3	-	- 0.75				
0	-	0	70 80	83 85	46.3 48.4	0.65 0.64	0.75 0.74				
803601	48	315312	90	89	51.7	0.63	0.74				
٠	Dk. Green	•	100	91	54.5	0.63	0.73				
Dk. Red		Dk. Green	-	-	-	-	-				
Ó		0	70	87	50.7	0.64	0.74				
803601	53	315312	80 90	89 92	53.1 56.4	0.65 0.64	0.75 0.74				
005001	Dk. Blue	•	100	94	59.6	0.65	0.74				
-											

● = Indicates installed nozzle plug P/N 315300

* Complies with ASAE standard. All precipitation rates calculated for 360° operation. All triangular rates are equilateral

operation. All triangular rates are equilateral. **Low-angle nozzles reduce radius by 15%.

I-80-ON NOZZLE PERFORMANCE DATA*

NOZZIC SCI			PSI	ft.	GPM				
			50	49	14.2	0.57	0.66		
Tan	(\bigcirc)	Gray	60	51	15.7	0.58	0.67		
			65	52	16.4	0.58	0.67		
0	15		70	53	17.0	0.58	0.67		
803611	White	315317	80	55	18.2	0.58	0.67		
•		•	50	56	17.2	0.53	0.61		
Tan		Gray	60	58	18.8	0.54	0.62		
Ô	10		65	59	19.7	0.54	0.63		
	18		70	60	20.0	0.53	0.62		
803611	Orange	315317	80	61	21.2	0.55	0.63		
•			50	57	18.4	0.55	0.63		
Tan		Gray	60	59	20.3	0.56	0.65		
\wedge	20		65	61	21.4	0.55	0.64		
\sim	20	~	70	63	21.6	0.52	0.60		
803611	Brown	315317	80	64	22.7	0.53	0.62		
•			50	63	21.6	0.52	0.60		
Tan		Lt. Blue	60	65	23.0	0.52	0.61		
	23	0	65	66	24.0	0.53	0.61		
		215244	70	67	24.9	0.53	0.62		
803611	Green	315311	80	68	26.6	0.55	0.64		
Tau			65	71	28.6	0.55	0.63		
Tan		Lt. Blue	70 80	73 74	29.7 31.7	0.54 0.56	0.62		
	25	0	90	74	33.7	0.58	0.64 0.67		
803611	Blue	315311	100	73	35.8	0.58	0.67		
003011	Dide	010011	65	74	30.9	0.54	0.63		
Tan		Lt. Blue	70	75	32.0	0.55	0.63		
			80	77	34.2	0.56	0.64		
	33		90	79	36.2	0.56	0.64		
803611	Gray	315311	100	81	38.2	0.56	0.65		
•		•	65	77	35.1	0.57	0.66		
Tan		Lt. Blue	70	79	36.6	0.56	0.65		
\wedge	38		80	82	38.9	0.56	0.64		
		S	90	84	41.3	0.56	0.65		
803611	Red	315311	100	87	43.6	0.55	0.64		
		•	-	-	-	-	-		
Tan		Blue	70	83	41.3	0.58	0.67		
	43	0	80	85	43.6	0.58	0.67		
803611		315315	90 100	87	46.3 48.8	0.59	0.68		
803611	Dk. Brown		-	- 89	40.0	0.59	- 0.68		
Dk. Brown	\odot	Dk. Blue	70	90	- 46.9	- 0.56	- 0.64		
			80	92	40.9	0.56	0.64		
U	48	0	90	94	50.5	0.55	0.63		
803610	Dk. Green	833500	100	96	53.5	0.56	0.65		
•		•	-	-	-	-	-		
Dk. Brown		Dk. Blue	70	91	49.8	0.58	0.67		
\mathbf{h}	52	6	80	93	52.2	0.58	0.67		
\checkmark	53	S	90	95	55.5	0.59	0.68		
803610	Dk. Blue	833500	100	97	58.5	0.60	0.69		
● = Nozz	zle plug P/	N 315300 i	installed in	the front	side of the	nozzle ho	using.		
 = Nozzle plug P/N 315300 installed in the front side of the nozzle housing. I-80-ON NOZZLES I-80 NOZZLES 									
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LOW-ANGLE NOZZLES**

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