



7005 / 8005 Rotors

Operation Guide

Instrucciones de Funcionamiento

Guia de Operação

Manuel d'Instruction

Bedienungsanleitung

Istruzioni

Bedieningshandleiding

ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ

Kullanım Kılavuzu



Full/Part Circle Operation (Refer to Figure 1 on fold-out page)

All 7005/8005 rotors are factory preset to part-circle at approximately 180 degrees.

Full-Circle Operation

Insert a flat blade screwdriver into the center adjustment slot on the top of the rotor. Turn the screwdriver clockwise so the blade is aimed toward the full-circle icon.

Part-Circle Operation

Insert a flat blade screwdriver into the center adjustment slot on the top of the rotor. Turn the screwdriver counter clockwise so the blade is aimed toward the part-circle icon. Use the following instructions to adjust the arc settings.

Arc Adjustment**Important facts:**

- The rotor may be adjusted to any arc between 50° - 330° and full circle.
- Both right and left edges of the arc can be independently adjusted.
- One full 360 degree turn of the arc adjustment screw will change the arc edge approximately 120 degrees. Three full turns of the arc adjustment screw will rotate the trip edge completely around to the starting point. This is significantly different than most other rotors.
- The edges of the arc do not have a hard stop when rotating the nozzle turret by hand; instead, there is a light click sound at the arc edge. If the nozzle turret is rotated past the trip point, the click will not be heard again until the nozzle turret is turned in the opposite direction. The right arc setting click will be heard as the nozzle turret is rotated clockwise and the left arc setting click will be heard as the nozzle turret is rotated counterclockwise.
- The nozzle turret can be rotated by hand at any time in either direction with no damage to the rotor. The nozzle housing may be rapidly advanced by hand to speed the arc setting process.
- The arc of the rotor cannot be set to less than 50 degrees. If the 50-degree minimum is reached during adjustment, a hard stop will be felt on the adjustment screw. To continue moving the arc edge, move the other edge in the same direction first. Then return and continue moving the first edge. If the adjustment screw is forced beyond the fixed stop, it will ratchet and click loudly a few times before damage occurs.

Setting the arc - Method #1:

1. Adjust both arc edges of the rotor larger than desired.
2. To adjust the left arc edge, trip the rotor so that it is rotating counter clockwise.
3. Grip the nozzle housing to halt the rotation at the desired trip point.
4. With the rotor aimed at the desired trip point, slowly turn the left adjustment screw in the clockwise direction until the torque of the nozzle turret is eliminated. This is a very subtle feel. The click sound of the trip may also be heard.
5. Verify trip point during normal operation.
6. Repeat the procedure for the right side trip. The rotor must be tripped to rotate clockwise and the right edge adjustment screw should be turned counter clockwise to reduce the arc until it trips.

Setting the arc - Method #2:

1. Determine where the edges of the arc are by rotating the nozzle turret by hand and listening for the click sound or observe the trip during operation of the rotor.
2. Use the arc adjustment screws to increase or decrease the arc until the trip is at the desired location.

Nozzle Installation (Refer to Figure 2 on fold-out page)

1. Insert the Pull-up Tool into the socket in the top of the rotor and twist 90 degrees. Pull the riser up to gain access to the nozzle opening and use the hold up tool to support the riser in this extended position.
2. Loosen the nozzle retainer screw until it no longer obstructs the nozzle opening in the nozzle housing.
3. Using both thumbs, press the color-coded nozzle firmly into the opening until it is flush with the nozzle turret.
4. Tighten the nozzle retainer screw. The screw threads must engage the front surface of the nozzle to ensure proper seating of the nozzle.
5. To remove the nozzle, loosen the nozzle retainer screw and insert a flat-bladed screwdriver into the Side Pry™ feature on the lower right edge of the nozzle to pry it loose.

Figure 1 Key

A = Part Circle Icon

B = Full/Part Circle Adjustment Slot

C = Left Edge Arc Adjustment Slot

D = Pull-up Tool Slot

E = Nozzle Retainer Screw

F = Full Circle Icon

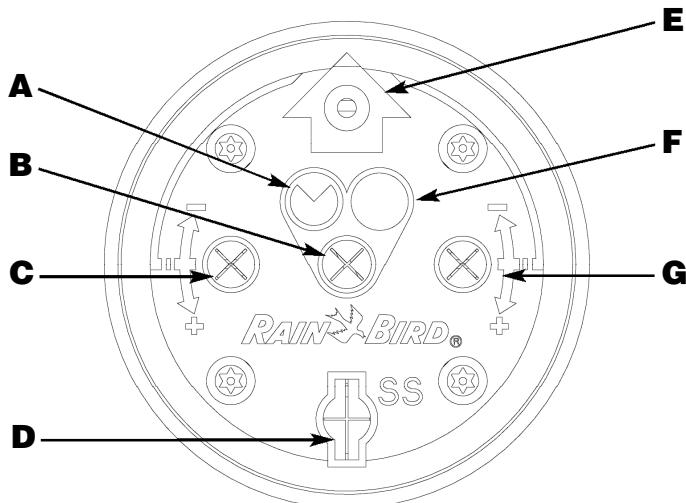
G = Right Edge Arc Adjustment Slot

Figure 2 Key

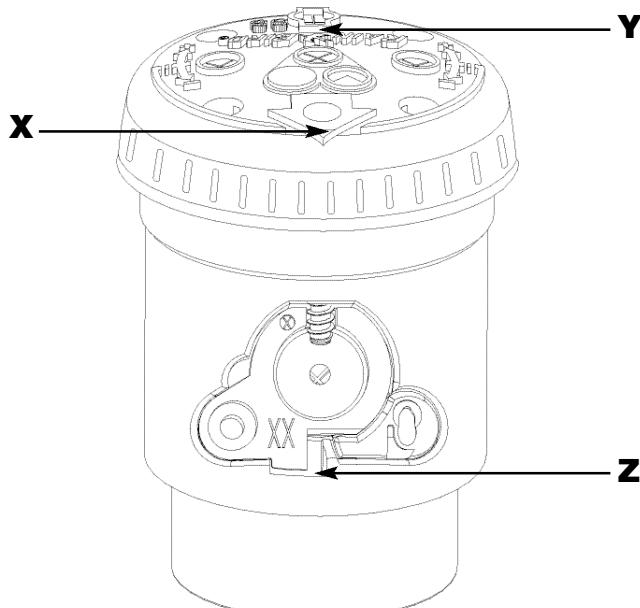
X = Nozzle Retainer Screw Slot

Y = Pull-up Tool Slot

Z = Side Pry™ Slot



F1



F2

8005 Nozzle Performance

METRIC

Pressure psi	Nozzle ft.	Radius ft.	Flow GPM	Precip In/h	Precip In/h
50	12	57	11.1	0.66	0.76
	14	59	12.6	0.70	0.81
	16	61	14.3	0.74	0.85
	18	63	16.1	0.78	0.90
	20	65	18.6	0.85	0.98
	22	65	20.7	0.94	1.09
	24	63	22.3	1.08	1.25
	26	65	24.3	1.11	1.28
60	12	59	12.0	0.66	0.77
	14	61	14.3	0.74	0.85
	16	65	15.9	0.72	0.84
	18	65	17.8	0.81	0.94
	20	67	20.1	0.86	1.00
	22	71	23.2	0.89	1.02
	24	69	24.7	1.00	1.15
	26	73	26.7	0.96	1.11
70	12	59	13.2	0.73	0.84
	14	63	15.3	0.74	0.86
	16	67	17.2	0.74	0.85
	18	67	19.3	0.83	0.96
	20	71	22.0	0.84	0.97
	22	73	25.2	0.91	1.05
	24	75	27.0	0.92	1.07
	26	75	29.4	1.01	1.16
80	12	61	14.2	0.73	0.85
	14	63	16.4	0.80	0.92
	16	67	18.6	0.80	0.92
	18	69	20.9	0.85	0.98
	20	71	23.9	0.91	1.05
	22	75	27.3	0.93	1.08
	24	77	29.2	0.95	1.10
	26	79	31.5	0.97	1.12
90	12	61	14.7	0.76	0.88
	14	65	17.9	0.82	0.94
	16	69	20.0	0.81	0.93
	18	71	22.2	0.85	0.98
	20	73	25.3	0.91	1.06
	22	75	29.1	1.00	1.15
	24	79	31.0	0.96	1.10
	26	79	33.7	1.04	1.20
100	20	75	26.8	0.85	0.97
	22	77	30.7	1.00	1.15
	24	79	32.8	1.01	1.17
	26	81	36.3	1.07	1.23

Precipitation Rates based on half-circle operation.

■ Square spacing based on 50% diameter of throw.

▲ Triangular spacing based on 50% diameter of throw.

Performance data collected in zero wind conditions.

Pressure Bars	Nozzle m	Radius m	Flow m ³ /h	Flow l/m	Precip mm/h	Precip mm/h
3,5	12	17,4	2,54	42,27	17	19
	14	18,0	2,89	48,18	18	21
	16	18,7	3,28	54,59	19	22
	18	19,2	3,69	61,43	20	23
	20	19,9	4,25	70,83	21	25
	22	20,0	5,08	79,07	25	29
	24	19,3	5,11	85,10	27	32
	26	20,0	5,57	92,67	28	32
4,0	12	17,9	2,68	44,74	17	19
	14	18,5	3,17	52,85	19	21
	16	19,6	3,54	58,98	18	21
	18	19,7	3,97	66,10	20	24
	20	20,3	4,50	74,95	22	25
	22	21,3	5,23	85,94	23	27
	24	20,7	5,50	91,69	26	30
	26	21,8	6,01	99,26	25	29
4,5	12	18,0	2,87	47,81	18	20
	14	18,9	3,37	56,12	19	22
	16	20,1	3,77	62,77	19	22
	18	20,1	4,22	70,36	21	24
	20	21,1	4,79	79,87	22	25
	22	22,0	5,51	91,80	23	26
	24	22,0	5,88	98,08	24	28
	26	22,6	6,42	106,44	25	29
5,0	12	18,1	3,06	50,92	19	22
	14	19,2	3,54	58,96	19	22
	16	20,4	3,99	66,44	19	22
	18	20,6	4,47	74,58	21	24
	20	21,6	5,11	85,08	22	25
	22	22,4	5,84	97,39	23	27
	24	23,0	6,26	104,29	24	27
	26	23,2	6,80	113,28	25	29
5,5	12	18,6	3,22	53,66	19	21
	14	19,2	3,72	61,98	20	23
	16	20,4	4,22	70,28	20	23
	18	21,0	4,74	78,97	21	25
	20	21,6	5,42	90,30	23	27
	22	22,8	6,19	103,15	24	28
	24	23,5	6,62	110,33	24	28
	26	24,1	7,14	119,05	25	28
6,0	12	18,6	3,30	55,07	19	22
	14	19,6	3,96	66,06	21	24
	16	20,9	4,45	74,12	20	24
	18	21,5	4,95	82,56	21	25
	20	22,1	5,65	94,18	23	27
	22	22,9	6,71	108,12	26	30
	24	23,9	6,92	115,31	24	28
	26	24,1	7,50	125,08	26	30
6,5	20	22,5	5,89	98,19	23	27
	22	23,4	6,84	112,73	25	29
	24	24,1	7,22	120,25	25	29
	26	24,3	7,91	131,76	27	31
	20	22,9	6,09	101,43	23	27
	22	23,5	6,97	116,19	25	29
	24	24,1	7,45	124,14	26	30
	26	24,7	8,24	137,39	27	31

**Rain Bird Corporation**

6991 E. Southpoint Road
Tucson, AZ, 85706, U.S.A.
Phone: (520) 741-6100
Fax: (520) 741-6522

Technical Service and Support

(800) RAINBIRD (U.S. & Canada only)

Rain Bird Corporation

970 W. Sierra Madre Avenue
Azusa, CA, 91702, U.S.A.
Phone: (626) 812-3400
Fax: (626) 812-3411

Specification Hotline

(800) 458-3005 (U.S. & Canada only)

Rain Bird International, Inc.

P.O. Box 37
Glendora, CA 91740-0037, U.S.A.
Phone: (626) 963-9311
Fax: (626) 852-7343

www.rainbird.com

The Intelligent Use of Water™ -- Visit www.rainbird.com to learn about our efforts

® Registered trademark of Rain Bird Corporation.
© 2007 Rain Bird Corporation 3/07

P/N 235332