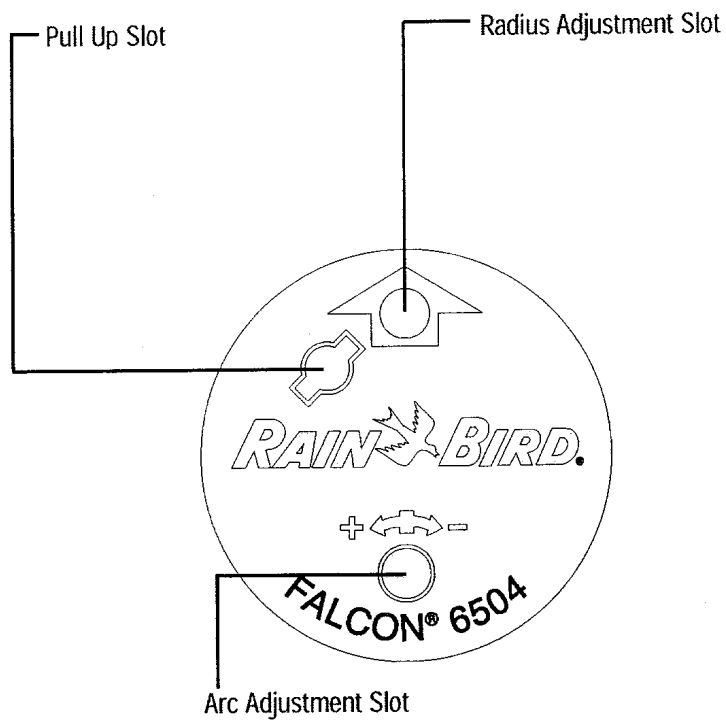
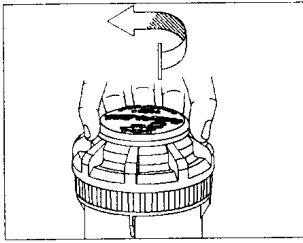




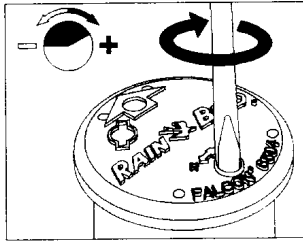
**Falcon® 6504 Rotor**  
Installation and Operating Guide



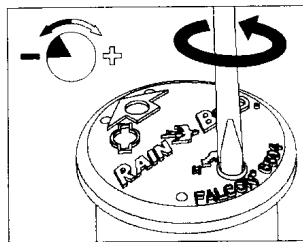
## English



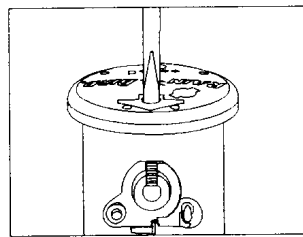
**A**



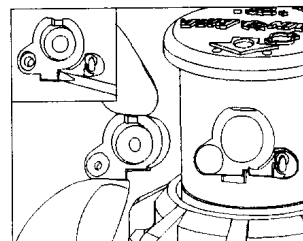
**B**



**C**



**D**



**E**

## Arc Adjustment

The arc is adjustable from 40° - 360° (PC units only). All part-circle Falcon® 6504 rotors are factory preset to approximately 180 degrees. It can be adjusted from the right trip. The left trip is fixed.

### Align Fixed Left Trip (A)

1. Pull up turret and turn to the left trip point (counterclockwise).  
Caution: If the rotor does not turn easily, first turn it right (clockwise) to the right trip point.
2. Next turn the turret until the arrow points in the direction you want to set the left edge trip.

### To increase the arc: (B)

1. While holding the nozzle turret at the fixed left stop, insert tool or screwdriver into the adjustment socket.
2. Turn the screwdriver counter clockwise (+) to increase the arc.
3. Each full turn of the counterclockwise turn of the screwdriver will add 45 degrees of arc.
4. When the maximum arc of 360 degrees has been set, you will feel some resistance in the adjustment screw. Do not adjust the rotor beyond the maximum arc.

### To decrease the arc: (C)

1. While holding the holding turret at the fixed left stop, insert tool or screwdriver into the arc adjustment socket.
2. Turn the screwdriver clockwise (-) to decrease the arc.
3. Each full clockwise turn of the screwdriver will remove 45 degrees of arc.
4. When the minimum arc of 40 degrees has been set, you will feel some resistance in the adjustment screw. Do not adjust the rotor below the minimum arc.

### Radius Adjustment: (radius can be reduced up to 25%)

1. Insert tool or screwdriver into the radius adjustment socket.
2. Turn the screwdriver clockwise to reduce radius, and counterclockwise to increase radius.

### Nozzle Installation (D & E)

1. Insert the Pull up Tool into the pull-up slot, turn 90 degrees, and lift up stem. Use the hold up tool to support the riser in this extended position.
3. Loosen the nozzle retainer screw until it no longer obstructs the nozzle opening in the nozzle housing.
4. Insert the color-coded nozzle firmly into the opening until it is flush with the nozzle turret.
5. Tighten the radius adjustment screw clockwise to secure the nozzle. The screw threads must engage the nozzle surface to ensure proper seating of the nozzle.
5. To remove the nozzle, first back out the radius adjustment screw. Then insert a flat-head screwdriver into the slot in the lower right side of the nozzle to pry it loose.

**Falcon\* 6504 Nozzle Performance**

					<i>METRIC</i>				
psi	Nozzle	Radius	Flow		Bars	Nozzle	Radius	Flow	Flow
		ft	GPM				m	m <sup>3</sup> /h	l/s
30	4	39	2.9		2,1	4	11,9	0,66	0,18
	6	43	4,2		6	13,1	0,95	0,26	
40	4	41	3,3		2,5	4	12,3	0,72	0,20
	6	45	4,9			6	13,5	1,05	0,29
	8	49	6,6			8	14,9	1,50	0,42
	10	51	8,1			10	15,5	1,84	0,51
	12	53	9,7			12	16,2	2,20	0,61
	14	55	11,3			14	16,8	2,57	0,71
	16	55	12,6			16	16,8	2,86	0,79
	18	59	13,7			18	18,0	3,11	0,86
50	4	41	3,7		3,0	4	12,5	0,78	0,22
	6	49	5,5			6	14,1	1,16	0,32
	8	51	7,4			8	15,1	1,56	0,43
	10	53	9,1			10	15,8	1,92	0,53
	12	55	11,0			12	16,4	2,31	0,64
	14	59	12,7			14	17,2	2,68	0,74
	16	61	14,3			16	17,4	3,00	0,83
	18	59	15,4			18	18,0	3,25	0,90
60	4	41	4,0		3,5	4	12,5	0,85	0,23
	6	47	6,0			6	14,9	1,26	0,35
	8	51	8,2			8	15,5	1,69	0,47
	10	55	10,0			10	16,2	2,08	0,58
	12	57	12,2			12	16,8	2,52	0,70
	14	61	14,0			14	18,0	2,91	0,81
	16	63	15,7			16	18,6	3,27	0,91
	18	63	17,1			18	18,1	3,53	0,98
70	4	41	4,4		4,0	4	12,5	0,89	0,25
	6	49	6,3			6	14,4	1,34	0,37
	8	51	8,9			8	15,5	1,83	0,51
	10	57	10,8			10	16,6	2,23	0,62
	12	59	13,2			12	17,3	2,72	0,75
	14	61	15,2			14	18,5	3,12	0,87
	16	63	16,9			16	19,1	3,50	0,97
	18	65	18,3			18	19,0	3,81	1,06
80	4	43	4,6		4,5	4	12,5	0,96	0,27
	6	49	6,9			6	14,6	1,40	0,39
	8	53	9,4			8	15,5	1,95	0,54
	10	55	11,6			10	17,1	2,37	0,66
	12	61	14,0			12	17,7	2,89	0,80
	14	61	16,2			14	18,6	3,32	0,92
	16	63	18,1			16	19,2	3,71	1,03
	18	65	19,6			18	19,5	4,03	1,12
90	18	65	21,7		5,0	4	12,7	1,01	0,28
						6	14,9	1,47	0,41
						8	15,7	2,05	0,57
						10	17,2	2,50	0,69
						12	18,1	3,04	0,85
						14	18,6	3,51	0,97
						16	19,2	3,91	1,09
						18	19,8	4,23	1,18
				5,5	4	13,1	1,04	0,29	
					6	14,9	1,56	0,43	
					8	16,1	2,13	0,59	
					10	16,8	2,63	0,73	
					12	18,6	3,18	0,88	
					14	18,6	3,67	1,02	
					16	19,2	4,10	1,14	
					18	19,8	4,44	1,23	
				6,0	18	19,8	4,79	1,33	
				6,2	18	19,8	4,93	1,37	

\*Precipitation Rates based on half circle operation.  
 Performance data collected in zero wind conditions.  
 Performance data derived from tests that conform with ASAE Standards: ASAE S398.1.

**High Speed Falcon 6504 Nozzle Performance**

					<i>METRIC</i>				
psi	Nozzle	Radius	Flow		Bars	Nozzle	Radius	Flow	Flow
		ft	GPM				m	m <sup>3</sup> /h	l/s
30	4	37	3,0		2,1	4	11,3	0,68	0,19
	6	39	4,3		6	11,9	0,98	0,27	
40	4	41	3,5		2,5	4	12,0	0,75	0,21
	6	43	6,0			6	12,7	1,22	0,34
	8	47	6,6			8	14,2	1,49	0,42
	10	47	8,1			10	14,2	1,83	0,51
	12	49	9,9			12	14,8	2,24	0,62
	14	53	11,4			14	16,0	2,58	0,72
	16	51	12,6			16	15,4	2,85	0,79
	18	53	13,9			18	16,0	3,15	0,88
50	4	41	3,7		3,0	4	12,5	0,81	0,23
	6	45	5,6			6	13,3	1,33	0,37
	8	49	7,5			8	14,5	1,57	0,44
	10	49	9,2			10	14,5	1,93	0,54
	12	53	11,2			12	15,4	2,35	0,65
	14	53	12,9			14	16,2	2,71	0,75
	16	53	14,3			16	15,8	3,00	0,83
	18	55	15,6			18	16,4	3,29	0,91
60	4	41	4,2		3,5	4	12,5	0,85	0,24
	6	45	6,2			6	13,7	1,28	0,36
	8	47	8,3			8	14,9	1,72	0,48
	10	49	10,2			10	14,9	2,11	0,59
	12	53	12,4			12	16,2	2,56	0,71
	14	53	14,2			14	16,2	2,95	0,82
	16	55	15,7			16	16,2	3,27	0,91
	18	59	17,2			18	16,9	3,57	0,99
70	4	41	4,6		4,0	4	12,5	0,93	0,26
	6	43	6,7			6	13,7	1,38	0,38
	8	49	9,0			8	14,4	1,85	0,51
	10	51	11,1			10	14,9	2,27	0,63
	12	55	13,5			12	16,2	2,76	0,77
	14	53	15,3			14	16,2	3,17	0,88
	16	57	17,1			16	16,6	3,50	0,97
	18	59	18,6			18	17,7	3,83	1,07
80	4	39	4,9		4,5	4	12,5	1,00	0,28
	6	43	7,1			6	13,4	1,48	0,41
	8	51	9,7			8	14,6	1,97	0,55
	10	49	11,9			10	15,3	2,42	0,67
	12	55	14,4			12	16,5	2,95	0,82
	14	53	16,5			14	16,2	3,36	0,93
	16	59	18,4			16	17,1	3,73	1,04
	18	59	20,0			18	18,0	4,07	1,13
90	18	61	21,3		5,0	4	12,3	1,06	0,29
						6	13,1	1,56	0,43
						8	15,1	2,08	0,58
						10	15,4	2,57	0,71
						12	16,8	3,12	0,87
						14	16,2	3,54	0,98
						16	17,5	3,96	1,10
						18	18,0	4,30	1,20
				5,5	4	11,9	1,11	0,31	
					6	13,1	1,61	0,45	
					8	15,5	2,20	0,61	
					10	14,9	2,70	0,75	
					12	16,8	3,27	0,91	
					14	16,2	3,74	1,04	
					16	18,0	4,17	1,16	
					18	18,0	4,53	1,26	
				6,0	18	18,4	4,75	1,32	
				6,2	18	18,6	4,84	1,34	



**Rain Bird Sales, Inc.**  
970 West Sierra Madre Avenue  
Azusa CA 91702 USA  
Phone: (626) 963 9311  
Fax: (626) 812 3411


**Rain Bird Technical Services**  
(800) 247 3782 (U.S. only)

**Rain Bird Sales, Inc.**  
6640 South Bonney Ave  
Tucson AZ 85706 USA  
Phone: (520) 434 6200  
Fax: (520) 434 6246

**Specification Hotline**  
(800) 458 3005 (U.S. only)

**Rain Bird International, Inc.**  
145 North Grand Avenue  
Glendora CA 91741 USA  
Phone: (626) 963 9311  
Fax: (626) 963 4287

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