



Timers

Timers	Easy Set Logic™				Easy Dial™	
	Lowes item #	309595	323674	194644	50605	50606
Orbit part #	249597	27894	27896	27999	27892	28954
Stations	4	6	9	12	4	6
Rain Delay	✓	✓	✓	✓	✓	✓
Programs	3	3	3	3	2	2
Indoor Mount	✓	✓	✓	✓	✓	✓
Outdoor Mount	✓	✓	✓	✓		
Water Budgeting	✓	✓	✓	✓		
Rain Sensor Capable	✓	✓	✓	✓	✓	✓
Warranty	6 years	6 years	6 years	6 years	6 years	6 years

Why do my sprinklers run continuously or repeat and run additional cycles?

- Most often this is caused by more than one start time being programmed.

Will my timer operate on battery power alone?

- No. The battery backup only maintains your programming in the event of power loss.

Why does my timer show "off pwr" in the LCD display?

This can be caused by:

- Disconnected power supply.
- A blown fuse (in some models).
- The electrical outlet is not working.

Why are some of my stations working, but not all of them?

Possible reasons:









- A bad valve solenoid.
- A broken or disconnected wire.
- Incorrect timer programming.
- The flow control stem on the valve is closed.

Programming Note:

To conserve water, Orbit® timers are equipped with a rain delay feature. Timers are also rain sensor ready (sold separately). Set it and forget it.

The water budgeting feature also allows you to seasonally adjust your watering duration without reprogramming each station.

Orbit Irrigation Products, Inc. | www.orbitonline.com | 1.800.488.6156 | Vendor # 74985 | Special Order SKU # 23694 | 98830L-26 rA

 FLUID	PROOF NO: 1	DIMENSIONS: FLAT: W: 7" H: 5" FINISHED: W: 7" D: 0.0" H: 5"	Printers are responsible for meeting print production requirements. Any changes must be approved by the client and Fluid Studio. PRINTED PIECE MUST MEET DESIGNATED SPECIFICATIONS ON THIS FORM. © 2011 Fluid Studio. This work is the property of Fluid Studio, and cannot be used, reproduced or distributed in any way without their express permission.
	DATE: 01.19.11 DES: MZ CLIENT: Orbit SKU: 98830L UPC: N/A FILE NAME: 98830L-26 rA.indd SOFTWARE: InDesign CS5	COLORS  Registration  grommet die non printing  color non printing  CMYK  PMS ???  PMS ???  PMS ???	
<p> P 801 295 9820 F 801 951 5815 www.fluid-studio.net 1065 South 500 West Bountiful, Utah 84010 </p>		ADDITIONAL INSTRUCTIONS: . . .	

Valves



Valves	Inline Valves		Inline Jar-Top Valves		Inline/Angle	Anti-Siphon		Jar-Top Anti-Siphon
	50161	50552	289083	249620		228434	157375	
Lowes item #	50161	50552	289083	249620	157371	228434	157375	45827
Orbit part #	57100P	57101P	57460P	57661	57020P	57623P	57624	57626
Size	¾"	1"	¾"	1"	1"	¾"	1"	¾"
Reverse Flow Valve	✓	✓						
Flow Control					✓	✓	✓	
Replaces	Rain Bird® - CP-075* Rain Bird® - CP-100*		Rain Bird® - JTV075*, JTV100*			Rain Bird® - JTV075ASVF*, JTV100ASVF*		Rain Bird® - JTV075ASV* Lawn Genie®RJ11
Replacement Diaphragms								
Lowes item #	215001		215002		160316	N/A		215002
Orbit part #	57045		57473		57046	57078		57473

*Measure your valve dimensions to ensure valve compatibility.

Why is my valve not shutting off?

- More than one start time is programmed in the timer.
- There is debris inside the valve.
- Diaphragm needs to be replaced.

Why do one or more of my zones not turn on?

- Verify that the main water supply is on.
- There could be a faulty solenoid in the valve – replace solenoid.
- Make sure the wires are properly connected.
- Verify that the timer programming is correct.

Why is my anti-siphon valve leaking when it shuts off?

- Anti-siphon valves should be installed 12" higher than the highest head in the zone. If installed lower than the heads in the zone, water can leak out the anti-siphon cap.
- Always check local codes before installing a backflow prevention device.

How do I maintain my valve?

- All Orbit® valves include detailed maintenance instructions.
- Orbit® jar-top valves allow for easy tool-free diaphragm access.

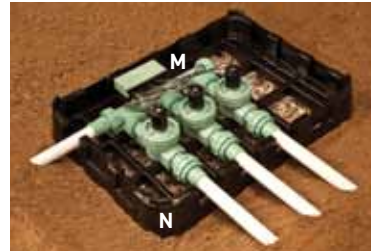
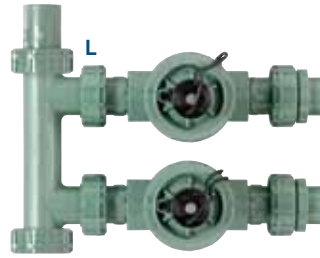
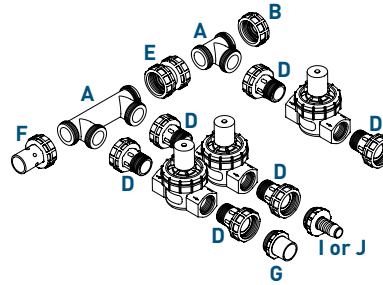
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Manifold System

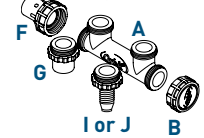
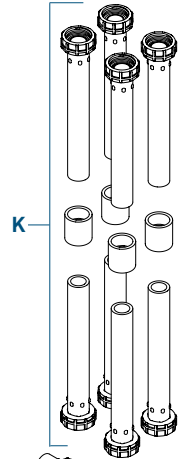


Manifold System	Ref. letter	Lowes item #	Orbit part #
1 Port Manifold	A	305730	57181
2 Port Manifold	A	305731	57182
3 Port Manifold (not shown)	A	305732	57183
Manifold Cap	B	305733	57197
1" NPT Transition Adapter	C	305734	57198
1" Swivel Adapter	D	305735	57199
Swivel Double Union	E	305736	57184
PVC Slip Swivel Adapter	F	305737	57202
Slip Transition Adapter	G	305738	57191
3/4" NPT Transition Adapter	H	305595	57187
3/4" Poly Adapter	I	305596	57188
1" Poly Adapter	J	323699	57189
Anti-Siphon Nipple	K	305598	57192
2 Port Pre-Assembled Manifold	L	305593	57250
3 Port Pre-Assembled Manifold	M	305594	57253
Valve Box Platform	N	325895	53230

Inline System



Anti-siphon System



Large Area Heads



Large Area Heads	Voyager III®	Eclipse®	Saturn III®	Satellite®	Super Jet™	Eco-Stream™*	
Lowes item #	142876	214997	160310	48792	194556	305586	305739
Orbit part #	55661	55044	55069	55025	55100	55038	55037
Pop-up Height	4"	4"	4"	2.5"	2.5"	4"	4"
Spray Pattern	40 - 360°	40 - 360°	40 - 360°	20 - 360°	20 - 360°	360°	90 - 210°
Spray Distance	20' - 50'	20' - 35'	15' - 30'	35' - 45'	35' - 45'	8' - 15'	8' - 15'
½" Inlet		✓	✓	✓	✓	✓	✓
¾" Inlet	✓	✓		✓			
Replaces	Rain Bird® 42SA K-Rain® K2, K5, K8000 Hunter® PGP Toro® ProStream XL™		Rain Bird® 32SA K-Rain® K1, K5 Mini Hunter® PGJ	Rain Bird® AG-5 MaxiPaw®	Rain Bird® LG-3 MiniPaw®	Rain Bird® 12SA Replaces traditional 4" pop-up spray heads and uses up to 30% less water. * Rebate for this product available in select areas, check with your utility company	

Impact heads are not rotating?

- There are too many heads on a zone—Impact heads use approximately 3.5 GPM (gallons per minute) per head.
- Low pressure—Check for a broken or disconnected line.
- Excessive pressure—Pressure should not exceed 80 psi. Optimum running pressure is 50 psi.

Heads continue to “weep” after running?

- If you are on a slope, the remaining water in the line can weep or trickle from the lowest head on the zone.
- If it continues to weep for an extended period, you may have a valve that is not closing all of the way.

How do I adjust my gear drive?

- Gear heads are preset to 180 degrees.
- Rotate the turret counter-clockwise to the left stop and then clockwise to the right stop. The right stop is the fixed side of the arc.
- Holding the turret at the right stop position, insert the plastic end of the key (Voyager®) or a screwdriver (Saturn®, Eclipse®) into the pattern adjustment slot. Turn key or screwdriver counter-clockwise to decrease the arc and clockwise to increase the arc. One full turn of the key will change the arc adjustment by 90 degrees. Heads can be adjusted by any increment between 40 and 360°.
- To diffuse the spray or adjust the distance, insert the metal hex end of the key (Voyager®) or a screwdriver (Saturn®, Eclipse®) into the distance adjustment slot. Turn the diffuser screw clockwise to decrease the distance of the spray. Caution: turning the diffuser screw more than five full turns may result in a lost diffuser screw.

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Medium Area Heads



Medium Area Heads	400 Series		Hard Top	Plastic Cap	Brass Nozzle		200 Series
Lowes item #	98813 205 48689	160295 160296 160297	123443 245110	123456 245108 249656 249659	249635 249639 249651	157360 157361 157364	160300 160301 160302
Orbit part #	54193 54192 54191	54183 54182 54181	54115N 54118	54116 54117N 54100 54101	54223L 54222L 54221L	54243L 54242L 54241L	54228 54229 54230
Pop-up Height	4"	2"	2," 4"	2," 4," 6," 12"	4"	2"	2"
Spray Pattern	360° 180° 90°	360° 180° 90°	25 - 360°	25 - 360°	360° 180° 90°	360° 180° 90°	360° 180° 90°
Twin Spray					✓		
Spray Distance	10' - 15'	10' - 15'	10' - 15'	10' - 15'	10' - 15'	10' - 15'	10' - 15'
Ratcheting Stem	✓	✓	✓	✓	✓	✓	✓
Replaces	Rain Bird®, Hunter®, Toro®, K-Rain® spray heads						

How many heads can I put on a zone?

- You need to know your pressure (PSI) and flow rate (GPM) to determine how many heads per zone can be used. See our online layout guide for more detailed information <http://www.orbitonline.com/lib/media/InstallationGuide.pdf>

What do I do if there are dry spots in my lawn?

- One potential reason for dry spots is heads that are spaced too far apart. You should have head to head coverage.
- Orbit's brass twin spray nozzles ensure better water distribution close to the head.

Heads continue to "weep" after running?

- If you are on a slope, the remaining water in the line can weep from the lowest head on the zone.
- If it continues to weep for an extended period, you may have a valve that is not closing all of the way.

All Orbit® nozzles are interchangeable with Rainbird, Hunter, and Krain nozzles (200 series excluded).

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Riser Flex & Misc.



Riser Flex	Ref. letter	Lowes item #	Orbit part #
½" MIPT x Barb St Elbow	A	194589	37159D
½" MIPT x FIPT Swing Joint Elbow	B	194468	37163D
½" x ¾" x 12" Pre-Assembled Swing Joints	C	160212	37265D
½" x 24" Riser Flex Pipe	D	194578	37151
½" x 10' Riser Flex Pipe	E	194543	37153D
½" x 50' Riser Flex Pipe	E	194544	37154
½" x 100' Riser Flex Pipe	E	192198	38931
To Build Your Own Swing Joint	A -Qty. 2, B -Qty. 1, + desired length of Riser Flex Pipe		

Note: not all riser flex fittings are shown here



To Complete Your Project, Don't Forget....	Ref. letter	Lowes item #	Orbit part #
Tool Kit	F	161869	26098
16 in 1 Tool Kit	G	72709	26099
Sprinkler Pull-up Tool	H	323689	26030
Sprinkler Flags	I	235350	27950
Bubblers - for small areas	J	160294	54042N
Auto Drains - for freezing areas	K	70828 163459	51240 51241
Walkway Tunnel Kit - for getting under driveways and sidewalks	L	194518	53333N



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