



IMPORTANT INFORMATION

SERIAL NUMBER

Important Information

- Before installing the Polaris, make sure the pool filter is clean.
- New plumbing lines should be flushed out before installing the Polaris.
- The Polaris should not be used to remove plaster dust in new pools.
- Except when checking the wheel RPM, do not handle the Polaris while it is operating.
- Always remove the Polaris before swimmers enter the pool.
- Disconnect the Polaris from the pool wall when cleaning or backwashing the pool filter.
- Always remove the Polaris from the pool before chemical shock treatments.
- $\bullet \ \ After cleaning or backwashing, let the filtration system run for at least five minutes before re-connecting the Polaris.$

For customer service or support:

- Please mail Warranty Card immediately.
- For on-line support: www.polarispool.com
- To contact Polaris: US and Canada

Customer Service 2620 Commerce Way Vista, CA 92081-8438

1-800-822-7933

Polaris Vac-Sweep[®] 180 Limited Warranty

This one year limited warranty is extended to the original consumer purchase rofth is Polaris Vac-Sweep 180 Automatic Pool Cleaner manufactured by Zodiac Pool Systems, Inc., {"Zodiac") from date of manufacture of the unit as established by the serial number, or one year from date of purchase with proof of purchase, which ever is later. Zodiac warrants this product, including all parts and components thereof, to be free of defects in material and work manship. Normal replacement items such as bags, tires, sweep hoses or sweep hoses crubbers which have been worn out by use or improper in stall at ion are not covered by this warranty.

This limited warranty does not apply if the failure is caused or contributed to by any of the following: improper handling, improper usage, improper storage, winterfreezing, abuse, improper installation, removal of the UWF filters creen, unsuitable application of the unit, improper maintenance, lack of reasonable and necessary maintenance, damage intransitor during installation, or damage from repairs/alterations made or attempted by any one other than Zodiacorone of its Authorized Service Centers. In no events hall Zodiac beliable for incidental or consequential damages of any nature or for damages to persons or property, including damage to viny lliners, plaster, tile, aggregate-based and other pool surfaces, or damages resulting from the use of this product with a substandard pool circulation system or chemical imbalance.

Authorization to return a unit or part to the plant of manufacture must be obtained from the Zodiac Customer Service Department. Check with your dealer for the local procedure before exercising this warranty. If further directions or instructions should be required, contact the Customer Service Department at 1-800-822-7933 (USA and Canada only) or (760) 599-9600. Be sure to insure the shipment against loss or damage in transit.

This limited warranty is valid only in the United States of America, Canada and Australia, and it does not apply to Polaris Vac-Sweep 180 Automatic Swimming Pool Cleaners sold or installed in any other country. Polaris Vac-Sweep 180 Automatic Pool Cleaners sold in the United Kingdom are warranted for a period of two years from date of invoicing to the first user.

WARNING: USE OF POLARIS 180 IN A VINYL LINER POOL

Certain vinyl liner patterns are particularly susceptible to rapid surface wear or pattern removal caused by objects coming into contact with the vinyl surface, including pool brushes, pool toys, floats, fountains, chlorine dispensers, and automatic pool cleaners. Some vinyl liner patterns can be seriously scratched or a braded simply by rubbing the surface with a pool brush. Ink from the pattern can also rub off during the installation process or when it comes into contact with objects in the pool. Zodiac Pool Systems, Inc., is not responsible for, and the Limited Warranty does not cover, pattern removal, a brasion or markings on vinyl liners.

Unique product shape is a registered trademark.

Introduction

Congratulations on the purchase of your new automatic pool cleaner, and thankyou for choosing Polaris. The Polaris Vac-Sweep 180 is designed to give you years of dependable and efficient service.

Likemost mechanical devices, it will require periodical just ments, rout in emaintenance, and the replacement of certain hardworking parts. Please have your cleaner checked occasionally by your local Polaris dealer or authorized service center.

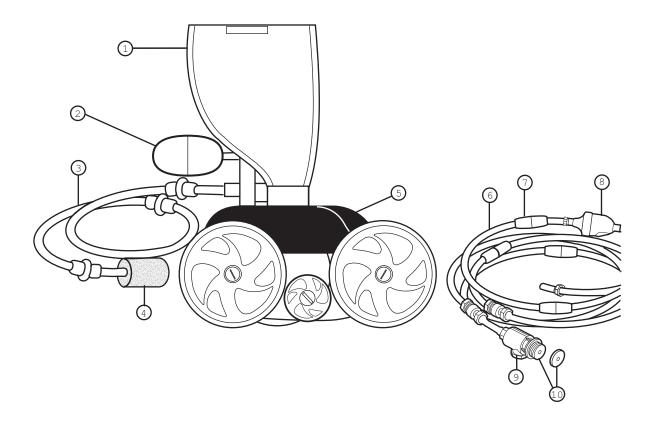
AlwaysinsistongenuinePolarisreplacementparts.Non-Polarispartsarenotmadetoourspecifications.They may have an adverse effect on the operation of your Polaris or may even damage it.

For best results, the Polaris 180 should be installed by a pool professional. For those with experience and confidence in handling plumbing and mechanical equipment, installation is outlined in this manual.

Polaris 180 Complete Cleaner

- 1. All Purpose Bag
- 2. Head Float
- 3. Sweep Hose
- 4. Sweep Hose Scrubber
- 5. Cleaner Body

- 6. Feed Hose
- 7. Hose Floats
- 8. Back-up Valve
- Quick Disconnect with Universal Wall Fitting (UWF)
- 10. Restrictor Disks (one red and one blue)



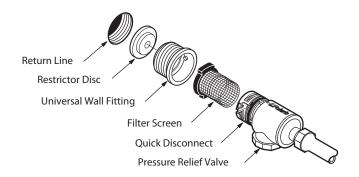
Quick Installation Instructions

1

Install the Universal Wall Fitting

Installs in minutes on pools with a dedicated cleaner return line and a threaded 1-1/2" female pipe fitting.

- 1. Turn on the filtration pump and flush out the plumbing line. Turn pump off.
- 2. Remove the UWF from the Quick Disconnect and screw the UWF with the blue restrictor disk into the return opening.
- 3. Turn the Quick Disconnect clockwise into the UWF and pull away to secure.



2

Adjust Feed Hose To Fit Pool Length

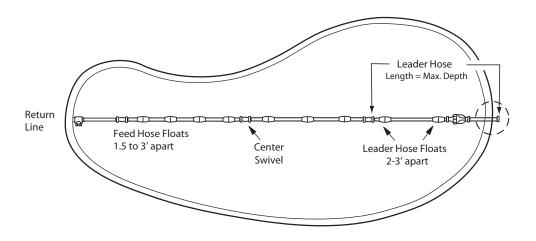
Measurethedeepestpartofthepool. Cutleaderhose, from end that attaches to feed hose, so length is equal to the greatest depth of the pool.

Attach leader hose to feed hose and connect hose to the pool wall at the return line. Extend hose to far the step oint of pool. The hose end must be within 6"-longer or shorter-of the far the step oint. See dotted circle.

Hose too long? Separate hose at centers wivel. Cut equal amounts of the overage from each 10-foot feed hose section.

Hose too short? Buy an additional feed hose section (part #9-100-3104), one swivel (part #D20) and two hose nuts (part #D15) from an authorized Polaris dealer.

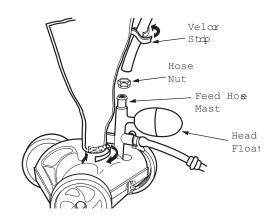
After adjusting hose, position hose floats as shown.



3

Assemble the Cleaner

- 1. Use the nut to attach the feed hose to the feed hose mast (feed pipe).
- 2. Pull out the bag and attach the Velcro strip loosely around the feed hose.
- 3. Position the head float 1/2 to 1 inch back from feed pipe.
- 4. Turnonthepoolfiltrationpumpandallowit toprimebeforeturningontheboosterpump.

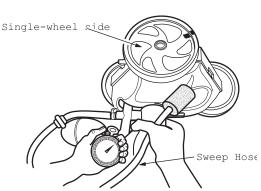


4

Check for Proper RPM

Before operating the Polaris, check for proper wheelrevolutionsperminute(RPM). For maximum efficiency, the Polaris should operate between 28 and 32 RPM.

- 1. Mark the single-wheel side tire.
- 2. Turn pump on, hold cleaner below water level and count wheel revolutions for 1 minute.



If count is less than 28 RPM:

- Check the filter screen in the Quick Disconnect for debris that restricts water flow.
- Clean the skimmer, filter and pump basket, clearing debris that restricts water flow.
- Check the hoses, connections and swivels for leaks that cause loss of water pressure.
- Remove the blue restrictor disk from the UWF.
- Ifanadjustablegatevalveisinstalledontheboosterpumporcleanerline, openit completely sowater can flow freely to the Polaris.

If count is more than 32 RPM:

- Replace the blue restrictor disk in the UWF with the red restrictor. If the flow is still too high, unscrew the pressure relief valve until the proper RPM is reached. Note: The pressure relief valve should only be adjusted when a restrictor is installed.
- $\bullet \quad If an adjust able valve is installed after the booster pump, adjust it to reduce the water flow to the cleaner.$

Fine Tuning The Polaris Cleaner

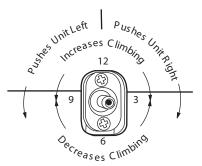
When operating correctly, the Polaris 180 vacuums, sweeps and scrubs all surfaces randomly throughout the pool. Approximately every 3 minutes the Polaris 180 goes into back-up mode. This action pulls the Polaris away from pool obstacles and increases its random pattern.

Thrust Jet Adjustment

The thrust jet powers the direction of the Polaris. Factory position is straight back, but depending on the pool, other settings are helpful.

Sweep Hose Adjustment

The sweep hose should move in a gentle sweeping motion. To adjust, turn off the booster pump and turn the sweep hose adjustment screw. Turn clockwise to decrease the motion.

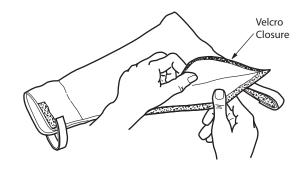


Routine Maintenance

Cleaning the Filter Bag

Remove the bag from the cleaner. Open the bag closure and dump out the debris.

- Emptythefilterbagwhenit is half full, especially if the dirt load is sand.
- → It is easier to empty the bag when it is dry. Alternate between two bags.

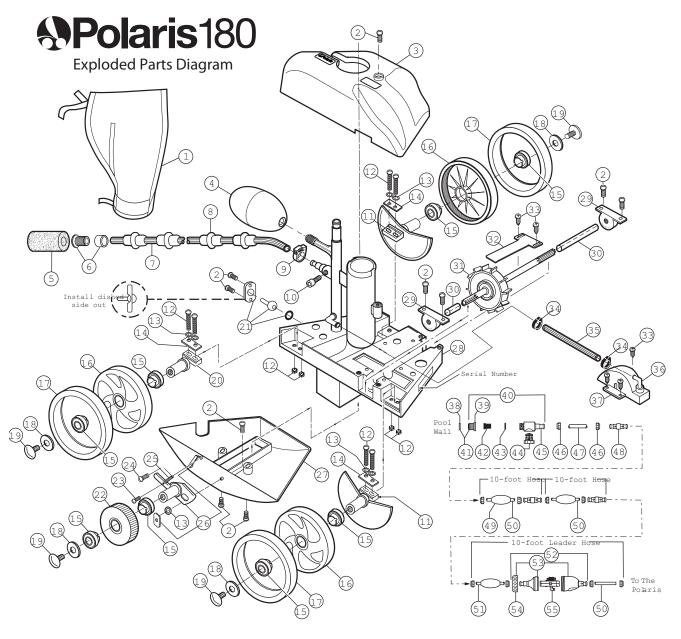


Backwashing the Pool Filter

Always disconnect the Polaris from the pool wall before cleaning or backwashing, let the filtration system run for at least five minutes to flush out the return lines before re-connecting the Polaris.

Storage and Winterizing

Neverstore the Polaris indirects unlight. When storing for the winter, drain out all the water (freezed amage is not covered under the warranty). Remove the UWF from the pool wall by attaching the Quick Disconnect and using pulling pressure to unscrew. If necessary use the UWF Removal Tool (part #10-102-00) available from an authorized Polaris dealer.



No.	Part #	Description Qty	No.	Part #	Description Qty	No.	Part #	Description Qty
1	A16	All-Purpose Bag* 1	18	C64	Wheel Washer, Plastic 4	37	C110	Turbine Cover with Elbow 1
2	C40	Screw, 10-32 x 3/8" SS Pan Head 10	19	C55	Wheel Screw, Plastic 4	38	10-112-00	Restrictor Disks, Red and Blue
3	A5	Top 1	20	C65	Axle, Large (Rear Wheel Only) 1	39	6-500-00	Universal Wall Fitting (UWF) 1
4	A20	Float, Head 1	21	C131	Thrust Jet Kit 1	40	9-100-9001	UWF Connector Assembly 1
5	9-100-3105	Sweep Hose Scrubber* 1	22	C16	Idler Wheel, Small 1	41	10-108-00	UWF Restrictor Kit 1
6	B25	Orifice Tip w/Orifice Tip Guard	23	C30	Screw, 4-40 x 3/16" SS Pan Head 1	42	6-504-00	Filter Screen, UWF/QD 1
7	B5	Sweep Hose Complete* 1	24	C32	Screw, 6-32 x 1/2" SS Pan Head1	43	6-505-00	O-Ring, UWF/QD 1
8	B10	Wear Rings* 8	25	C25	Spring for C-36 1	44	9-100-9002	Pressure Relief Valve, Black 1
9	B15	Sweep Hose Attach Clamp 1	26	C36	Swing Axle Kit 1	45	D29	Quick Disconnect (QD), UWF 1
10	B20	Adjustment Screw, Sweep Hos	el 27	A10	Base with Bracket 1	46	D15	Nut, Feed Hose 10
11	C66	Axle, Large (with Sand/Gravel	28	C145	Frame 1	47	**	Adapter Hose, 8-1/2" 1
		Guard) 2	29	C80	Ball Bearings, Turbine 2	48	D20	Swivel, Ball Bearing 3
12	C75	Screw/Nut,10-32 x 7/8" SS	30	C83	Turbine Shaft Tubes 1	49	D10	Float, Feed Hose 9
		Pan Head 6	31	C86	Drive Shaft Assembly 1	50	D45	Feed Hose, 10 Ft 2
13	C45	Lock Washer for C36 7	32	A40	Turbine Shaft Shield 1	51	D50	Feed Hose, Leader, 10 Ft 1
14	C70	Axle Plate for C65/C66 3	33	A30	Screw, #10 x 1/2" SS Pan Head 5	52	G52	Back-up Valve Kit 1
15	C60	Ball Bearings, Wheels 8	34	9-100-7170	Hose Clamp for WMS 2	53	G54	Case Kit for G52 1
16	C6	Wheel, Large (No Bearings Incl.)	3 35	C120	Hose for C110, 7-1/2" 1	54	G57	Collar, Back-up Valve 1
17	C10	Tire, MaxTrax** 3	36	C115	Elbow for C110 or Feed Mast Tube	2 55	G53	Mechanism for G52 1

 ${\it *Wear items} not covered by warranty.$

Troubleshooting

If the Polaris cleaner displays the following actions, adjustments may be necessary to restore performance. Refer to exploded parts diagram for part references.

Action: Hangs up on steps or other

obstacles for longer than 3

minutes.

Solution: 1. Check the wheel RPM.

> 2. Verify the back-up valve is cycling.

3. Adjust the thrust jet.

4. Remove unnecessary pool hardwareorinstallaLadderGuard Kit(orderpart#G21fromaPolaris dealer).

Action: Polaris is sluggish, running with less power than normal.

Solution:

 CheckthefilterscreenintheOuick Disconnectandclean, if necessary.

2. Cleantheskimmerbasket,pump basket, and pool filter.

3. Checkallofthehoses, connections, and swivels for leaks that could cause loss of water pressure.

4. Check the wheel RPM.

Action: Polaris flies around the pool and/or does not make contact

with the bottom.

Solution: 1. Confirm that the blue restrictor disk is installed in the UWF to decrease water flow. Or, install theredrestrictordisktodecrease water flow even more.

> 2. Check the wheel RPM. If more than 32 RPM, unscrew the pressure relief valve to decrease water flow to cleaner. Note: The pressure relief valve should only be adjusted when a restrictor is installed.

> 3. Verifytheback-upvalveiscycling. Holdthevalveoutofthewaterand watch the jet. It should come on and go off.

Polaris does not back up. Action:

Solution: 1. Verify the back-up valve

is cycling.

2. Check the wheel RPM.

3. If the bag is full, empty it.

4. If head float has water in it,

replace it.

5. Make sure feed hose is floating.

Action: Polaris only turns in one

direction.

1. Adjust the thrust jet. Solution:

2. Make sure feed hose is floating.

Action: Feed hose becomes tangled.

Solution: 1. Remeasurethehosetoverifythat itisadjustedtotheproperlength

for the pool shape.

2. WiththePolarisoperating,check that the swivels in the hose and thehoseconnectionsturnfreely.

3. Make sure feed hose is floating.

4. With the Polaris turned off, spin each of the wheels. All wheels

should turn together.

Action: Sweep hose is sucked into

the vacuum tube.

1. Makesuretheopeningattheend Solution: of the sweep hose is not blocked

by the sweep hose scrubber.

2. Adjustthesweephosetoagentle sweeping motion.

Action: Sweep hose sprays too much water out of the pool.

Solution: 1. Adjust the speed of the sweep hosebytighteningtheadjustment screw.

- 2. Replacethesweephosescrubber if it is worn or missing.
- 3. Add a sweep hose weight (order part #B2) to keep the sweep hose from spraying.

Action: The cleaner does not clean the entire pool.

Solution:

- Check the hose length reaches within 6" of the farthest point of the pool. If not, order a new hose section from your Polaris dealer.
- 2. Checkthrustjetforstraightback position that optimizes random turning.
- 3. While the cleaner is operating, holditupsidedownandlookinto the vacuum tube. There should one distinct jet of water. If there arenot, contact Customer Service or a Polaris authorized Service Center for assistance.

Action: The cleaner is running in circles on its side.

Solution:

- 1. Checkfilterbag, iffullit canweigh the cleaner down on one side.
- 2. Removetheheadfloatandshake it. If there is water in the float, order a new one.
- 3. Check the hose floats to make sure they are spaced evenly.

Troubleshooting Worksheet

If these solutions do not result in improved performance, contact the Polaris dealer who soldyouthecleaner or call Customer Service.

Inorder to provide faster and more convenient service, please have the following information available at the time of your callor when taking the Polaris in for service.

1.	Serial #:						
2.	Wheel RPM:						
3.	Is the back-up valve cycling?						
	□Yes	□No					
	Is the feed hose the proper length?						
	☐ Yes	□No					
5.	Are the swivels rotating freely?						
	□Yes	ΙΩo					
6.	How often do you clean the filter screen inside the Quick Disconnect?						
	□Never		□Once a Week				
	□Twice a V	Veek	□Once a Month				
	Are the vacuum jets obstructed? (While the cleaner is operating, hold it upsiden and look into the vacuum tube. There should be one distinct jet of water.)						
	□Yes	□No					
	Is the drive train functioning? (Asyouspineachwheelindependently, all the wheels should spin.)						
	□Yes	□No					



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