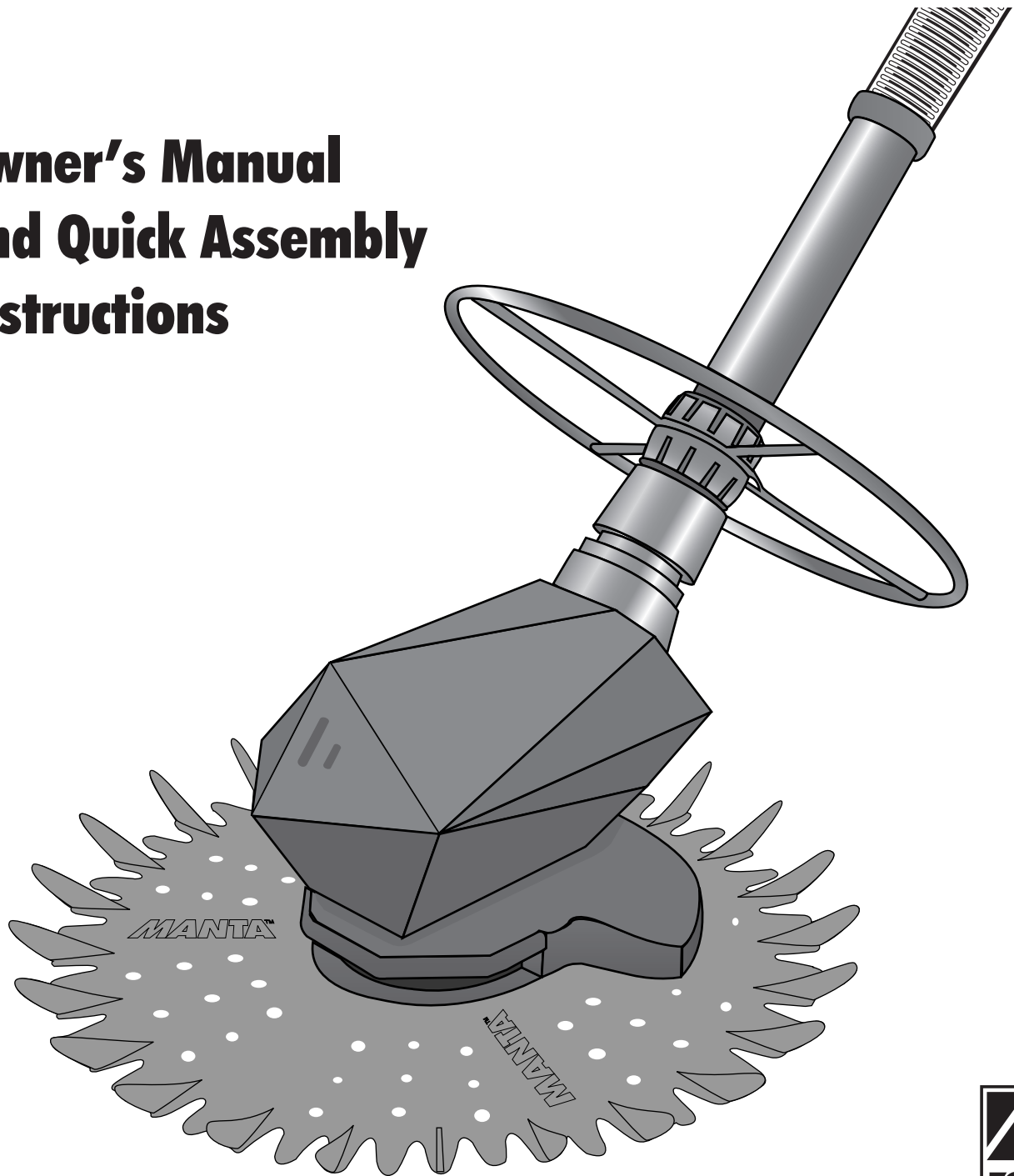


MANTA

MANTA

Owner's Manual and Quick Assembly Instructions



95104

MANTA

AUTOMATIC INGROUND POOL CLEANER

**THANK YOU FOR PURCHASING THE WORLD'S SIMPLEST
AUTOMATIC SWIMMING POOL CLEANER, THE MANTA. YOUR MANTA
HAS BEEN DESIGNED AND MANUFACTURED TO BE EASILY INSTALLED
AND TO PROVIDE YEARS OF LOW MAINTENANCE OPERATION.**

**PRIOR TO INSTALLING YOUR NEW MANTA AUTOMATIC POOL CLEANER
PLEASE DO THE FOLLOWING:**

- 1) Complete and return the warranty card.
- 2) Record your purchase information on the spaces provided below.
- 3) Attach your invoice (or a copy) to this page.

These actions will insure prompt warranty service, should it be required. Simply present your owner's manual, along with the invoice at any of our authorized warranty centers nationwide.

RECORD YOUR MANTA POOL CLEANER DATA HERE:

Date of Purchase _____

Purchased From _____

City _____ Province _____

Serial No. _____

MANTA LIMITED WARRANTY

This MANTA was carefully inspected before shipment from our warehouse. Upon unpacking, if any part proves defective or missing, please notify your dealer immediately. Please consult owner's manual for complete instructions on the installation and operation of your MANTA.

ZODIAC POOL CARE, INC. WARRANTS THE BARACUDA MANTA POOL CLEANER AGAINST ALL MANUFACTURING DEFECTS FOR FIVE (5) YEARS, AND ALL WEAR AND TEAR FOR THE FIRST THREE (3) YEARS. THE MANTA HOSE IS WARRANTED AGAINST DEFECTS AND WEAR AND TEAR FOR THREE (3) YEAR. ALL WARRANTIES ARE EFFECTIVE FROM THE DATE OF PURCHASE.

Should this product prove defective in workmanship, materials or wear during the applicable warranty period, the consumer's sole and exclusive remedy shall be such repair or replacement of the product as provided below.

THIS LIMITED WARRANTY EXCLUDES THE FOLLOWING:

1. Discoloration of the MANTA pool cleaner. This is caused by reaction to ultraviolet rays and the chemicals used in pool water. Discoloration does not affect the operating ability of the MANTA. Therefore, this Limited Warranty does not cover the replacement of discolored parts.
2. Damage to or malfunction of the unit resulting from excess chlorination or improper water chemistry balance.
3. Replacement of parts which fail or become defective as a result of improper installation, negligence, misuse, abuse or tampering by unauthorized repair personnel.
4. Age, pool water imbalance, and improper installation can cause vinyl pool liners to become brittle or unduly wrinkled. The use of this product in such an environment is at the pool owner's risk. Therefore, the pool owner hereby releases the manufacturer from any and all claims for damage where the above conditions exist.
5. The MANTA is designed for use in inground pools only. If unit is used in any other application, the pool owner hereby releases the manufacturer from any and all claims. This misuse will void all warranty on the unit.

THE LIMITED WARRANTY PROVIDED HEREIN IS THE SOLE AND EXCLUSIVE WRITTEN WARRANTY WITH RESPECT TO THE MANTA POOL CLEANER. ALL IMPLIED WARRANTIES IMPOSED BY APPLICABLE LAW, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO EACH COMPONENT OF THE MANTA ARE LIMITED TO THE DURATION OF THE EXPRESS LIMITED WARRANTY WITH RESPECT TO SUCH COMPONENT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

In no event shall Zodiac Pool Care, Inc. be liable in contract or in tort, or under any other legal theory, for lost profits or revenues, loss of use or similar economic loss, or for indirect, special incidental, consequential or similar damages, even if it has been advised of the possibility of such claim. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

No claim under this Limited Warranty will be recognized unless the registration card, included in your box, is completed and returned within fifteen (15) days of the purchase date. Only the original purchaser may submit a claim under this Limited Warranty.

To obtain warranty replacements or repair, the unit should be returned, **freight prepaid**, to an authorized warranty center or directly to : Baracuda Canada, 1260 Lakeshore Rd., #7, Mississauga, Ontario Canada L5E 3B8. Call for authorization at 1 (888) 647-4004. When submitting a claim, always supply serial number, evidence of purchase date, retailer and a brief description of the problems/defects encountered. Zodiac Pool Care, Inc. reserves the right to repair or replace all defective or worn parts covered by this Limited Warranty and return same to purchaser, freight collect.

The manufacturer assumes no responsibility for any warranties or representations made by other individuals or businesses beyond the express terms contained in this Limited Warranty.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

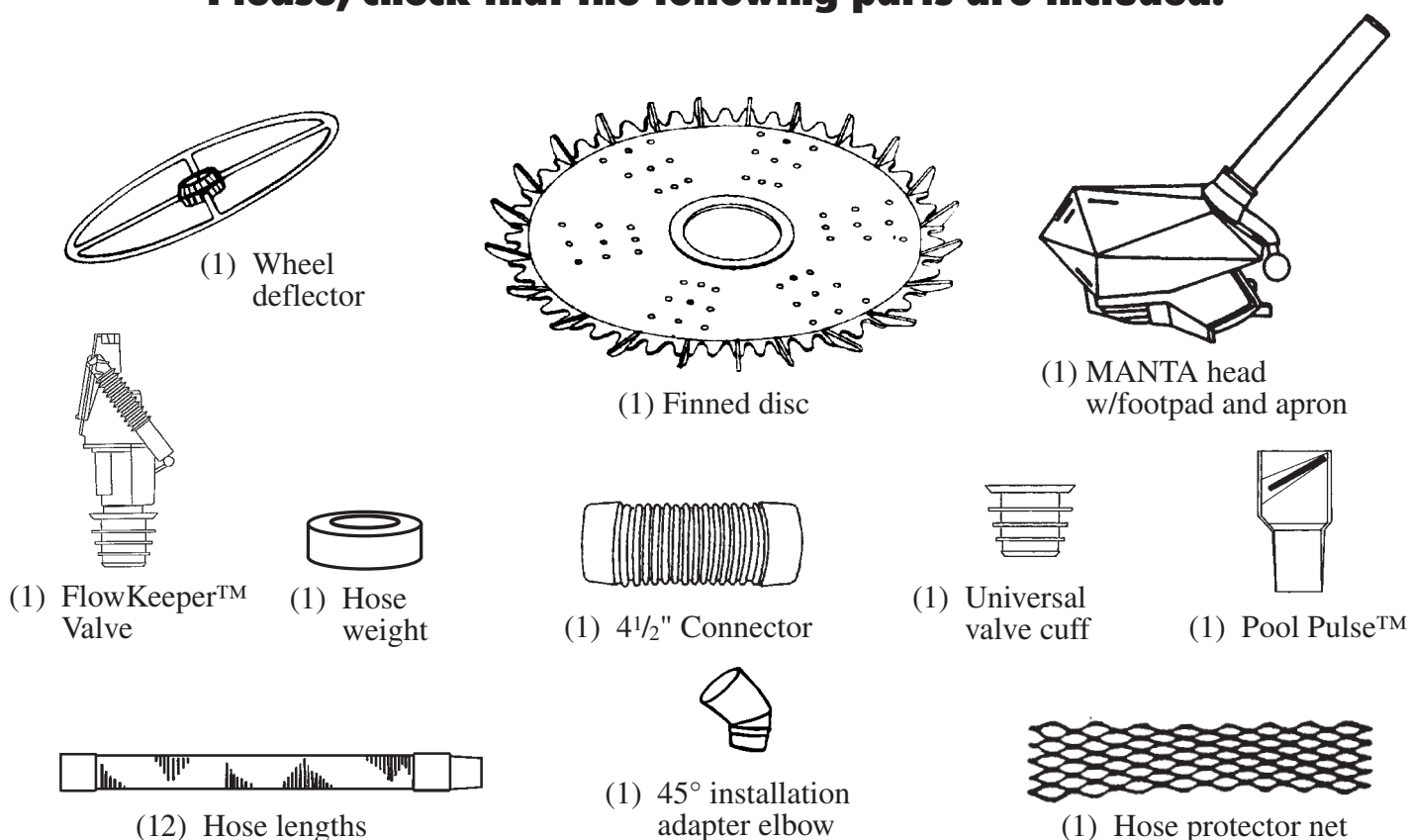
FOR SALE AND USE IN CANADA, MEXICO AND THE UNITED STATES ONLY
THIS POOL CLEANER IS NOT WARRANTED OR GUARANTEED OUTSIDE OF CANADA, MEXICO OR THE UNITED STATES
MANTA and EASY ACCESS SYSTEM™ are trademarks of Baracuda International Corporation

This pool cleaner is covered by one or more of the following Canadian and U.S. patents and Canadian registered design:
U.S. patent nos. 4,351,077, 4,642,833, 4,742,593 and 5,014,382.
Canadian patent nos. 1,140,708, 1,254,105 and 1,256,262. Canadian rd. no. 64787 (1989) (Zarina Holding C.V.)

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Please, check that the following parts are included.



If assistance is required, call 1-888-647-4004

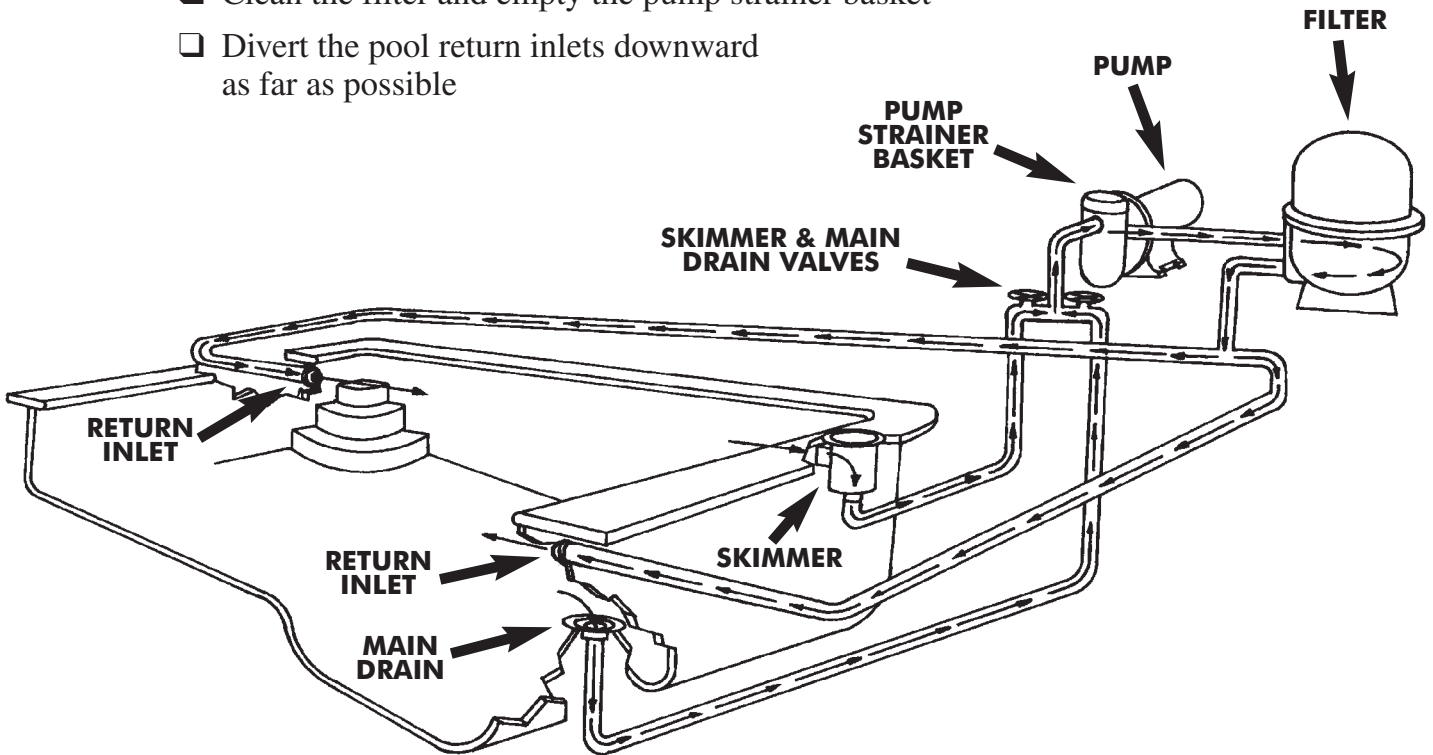
Important: for Vinyl Liner Pool Owners

Vinyl liners are subject to deterioration or damage due to age, the effect of chemicals, corrosion or failure of the supporting walls; as well as improper installation, maintenance or cleaning of the supporting walls or base.

Before installing the Manta, examine the interior of your pool carefully. If your vinyl liner is brittle or has stones, wrinkles, roots or metal corrosion in contact with the underside of the liner, or has damage to the base material or supporting walls, do not install the Manta before having a qualified professional perform the necessary repairs.

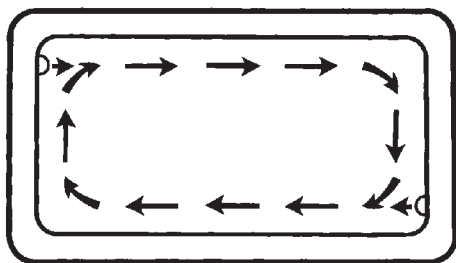
POOL PREPARATION

- ☐ Close the main drain
- ☐ Manually Vacuum the pool
- ☐ Clean the filter and empty the pump strainer basket
- ☐ Divert the pool return inlets downward as far as possible

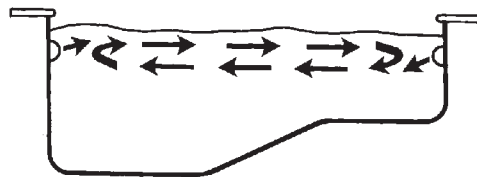


Diverting the pool return inlets downward allows the Baracuda Manta to move randomly throughout the pool. Loosen the lock ring on the return inlet, aim the eyeball downward and tighten the lock ring.

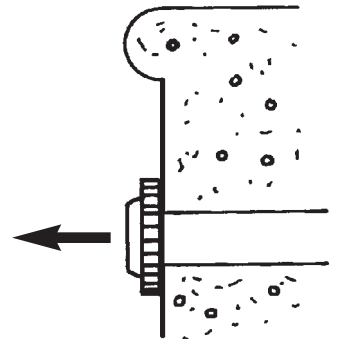
BEFORE ADJUSTMENT



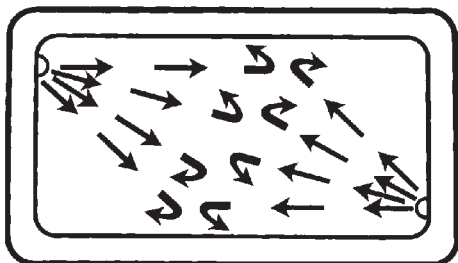
TOP VIEW



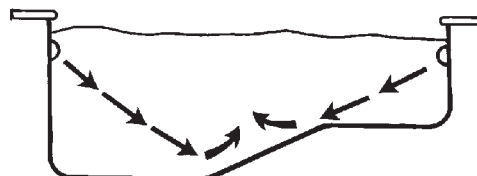
SIDE VIEW



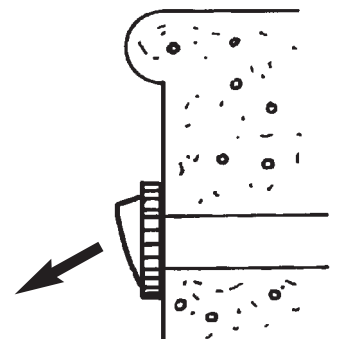
AFTER ADJUSTMENT



TOP VIEW

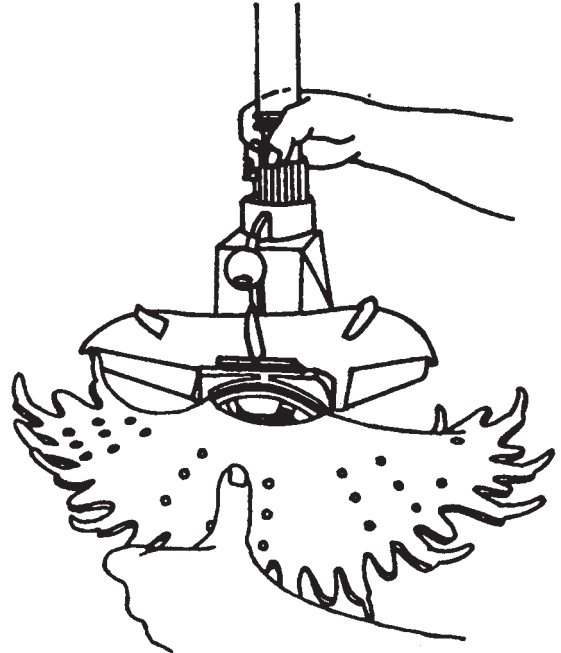
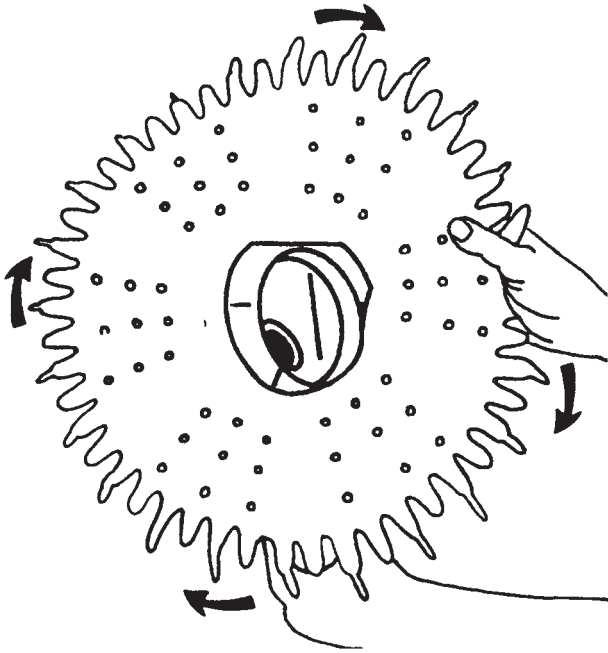


SIDE VIEW

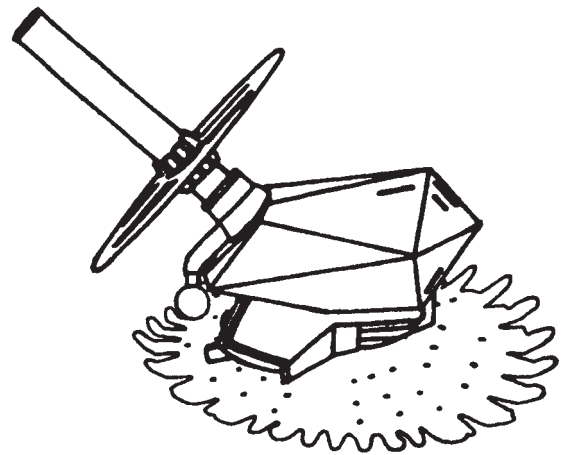
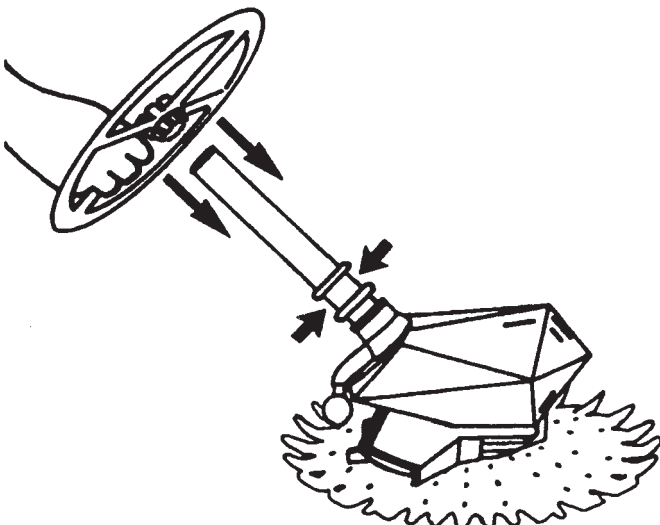


ASSEMBLY

Step 1: Slide the finned disc over the footpad. Be sure it fits properly in the grooves provided. **The fins on the disc face upward.**

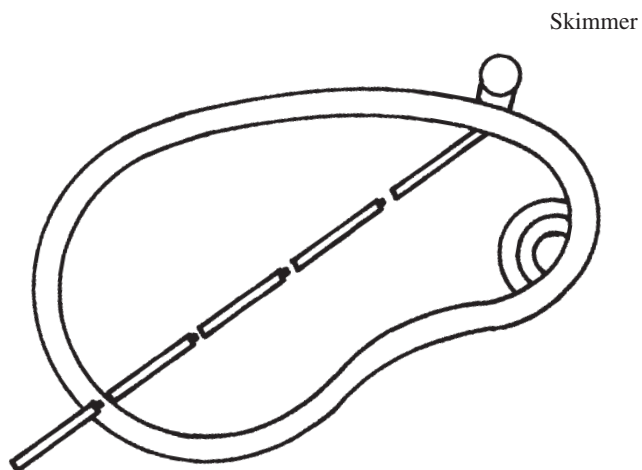


Step 2: Slide the wheel deflector over the extension pipe and secure between the two lowest pipe ridges. Make sure the top clips of the deflector wheel are seated in the groove. The deflector wheel should rotate freely.

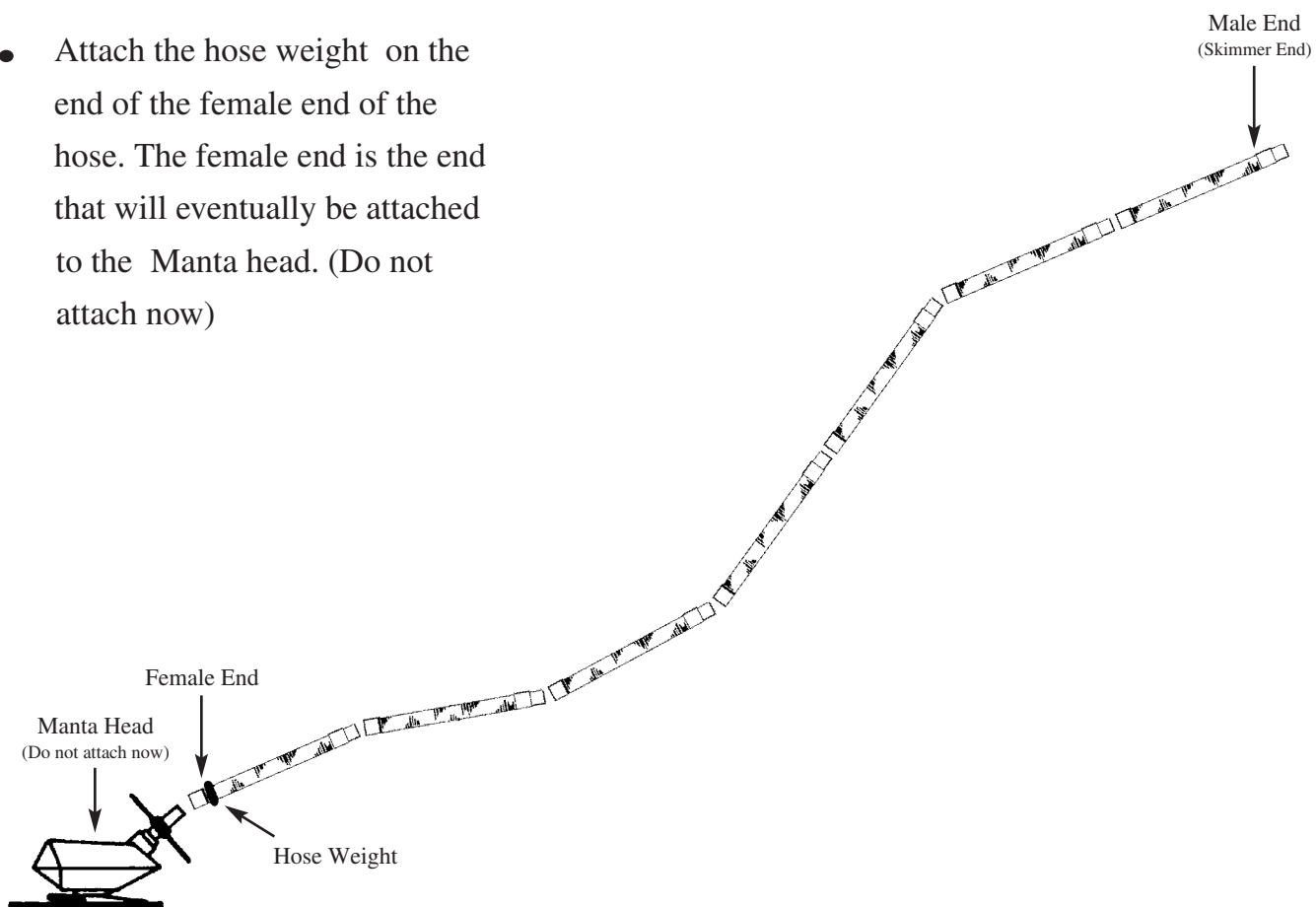


ASSEMBLY

1. Use enough hose sections to reach the farthest point in the pool, plus one (1) section.



2. Attach the hose weight on the end of the female end of the hose. The female end is the end that will eventually be attached to the Manta head. (Do not attach now)

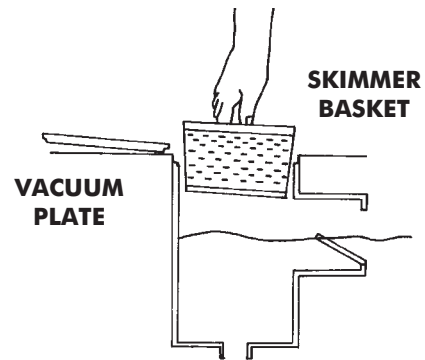


The next steps vary based on whether your pool has one skimmer, two skimmers or a wall vacuum fitting. Please follow the appropriate instructions for your type of pool.

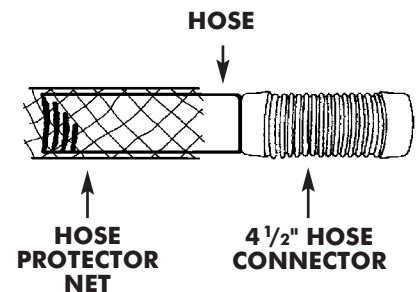
INSTALLATION (A)

FOR POOLS WITH ONE SKIMMER

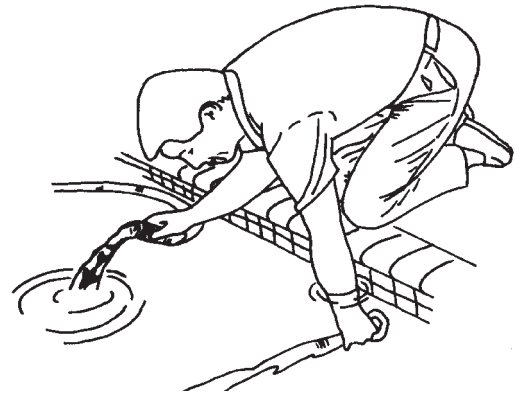
1. Begin by removing your vacuum plate (if you have one) and skimmer basket from the skimmer.



2. Slide the hose protector net on the male end of the hose and attach the 4 1/2 inch hose connector to the same end.



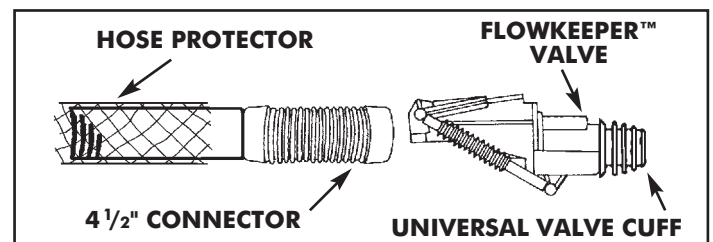
3. Fill the hose with water by placing the end over a return jet inlet.



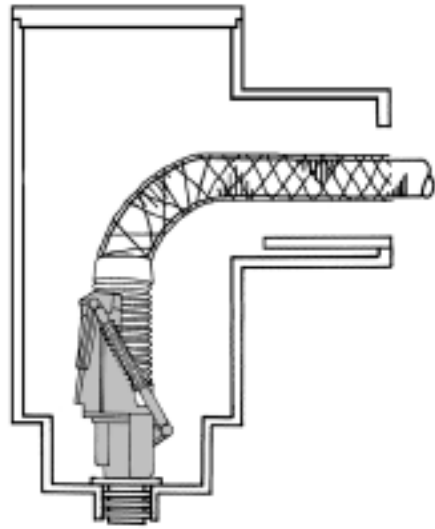
IMPORTANT

Your hose is now free of air. Please ensure that the hose ends are kept under water while performing the following steps. This will prevent air from entering your system.

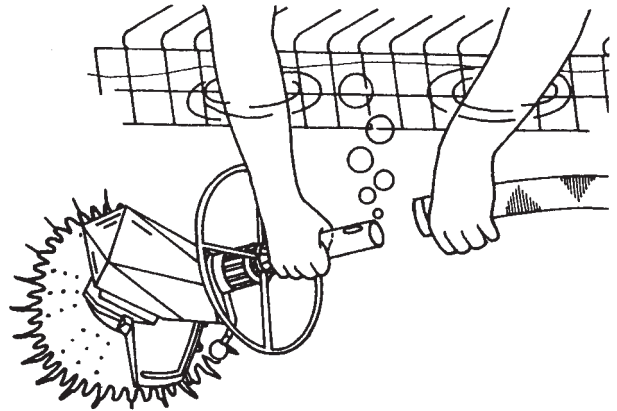
4. At the hose connector end, connect the Flowkeeper valve and the universal valve cuff.



- 5.** Move to the skimmer and attach the assembly into the suction port.



- 6.** Remove the pool pulse. Submerge the Baracuda Manta pool cleaner head. When bubbles stop coming from the extension pipe, attach the cleaner head to the female end of the hose.



IMPORTANT

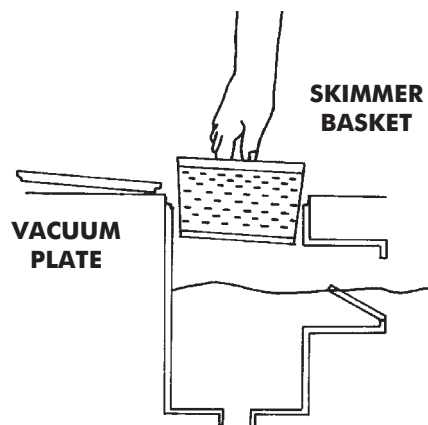
Please ensure that the hose weight is on the end of the hose for optimum performance.

Your assembly is now complete - enjoy!

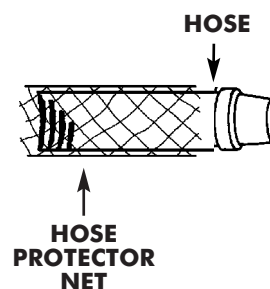
INSTALLATION (B)

FOR POOLS WITH TWO SKIMMERS

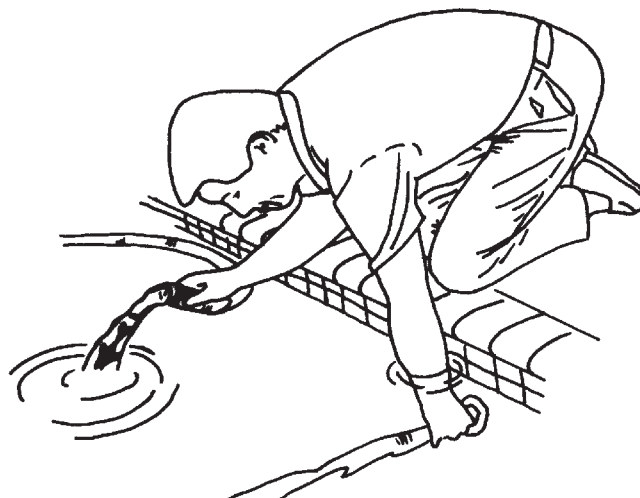
1. Begin by removing your vacuum plate (if you have one) and skimmer basket from the deep end skimmer.



2. Slide the hose protector net on the male end of the hose.



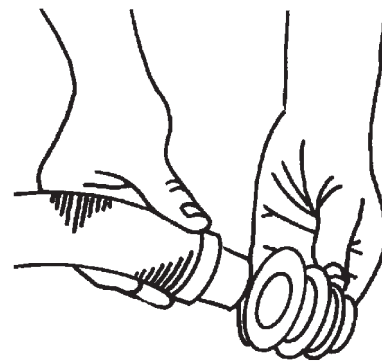
3. Fill the hose with water by placing the end over a return jet inlet.



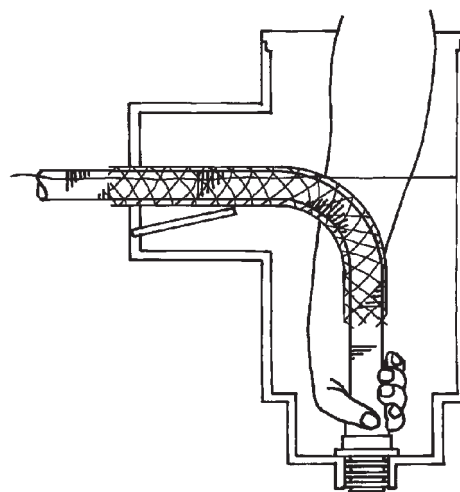
IMPORTANT

Your hose is now free of air. Please ensure that the hose ends are kept under water while performing the following steps. This will prevent air from entering your system.

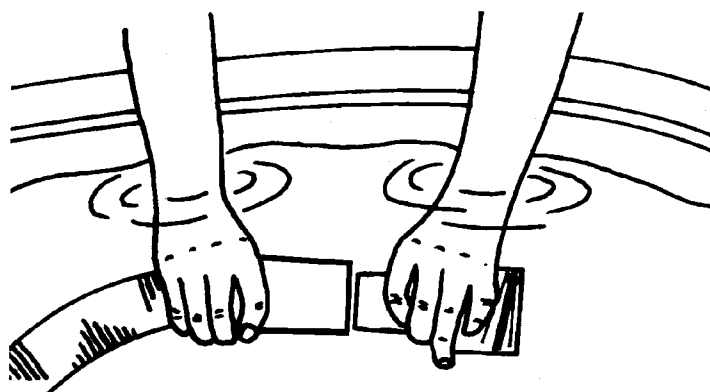
- 4.** Attach the male end of the hose to the universal valve cuff.



- 5.** Move to the deep end skimmer and insert the cuffed hose into the suction port.

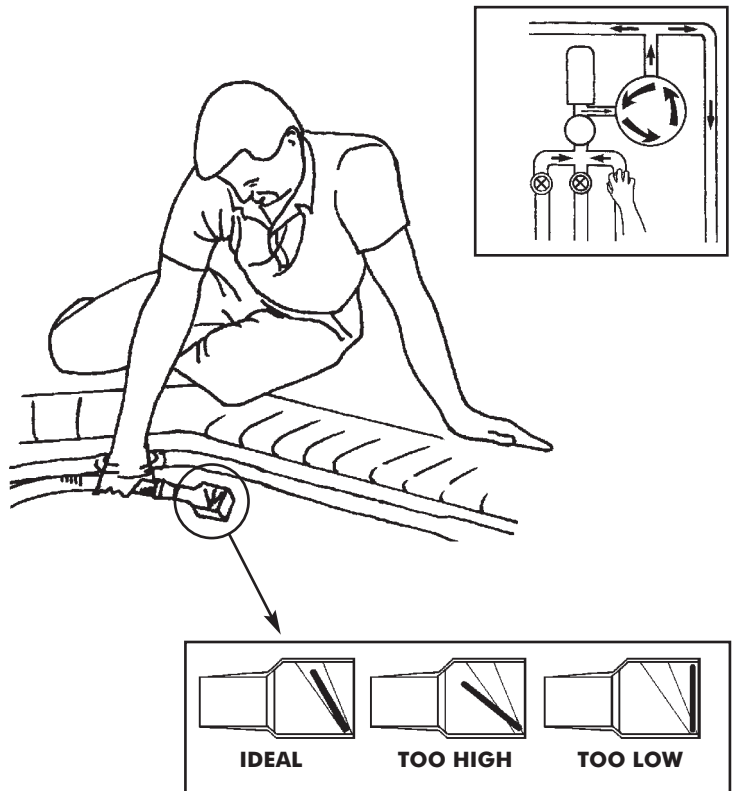


- 6.** Attach the Pool Pulse™ to the other end of the hose.

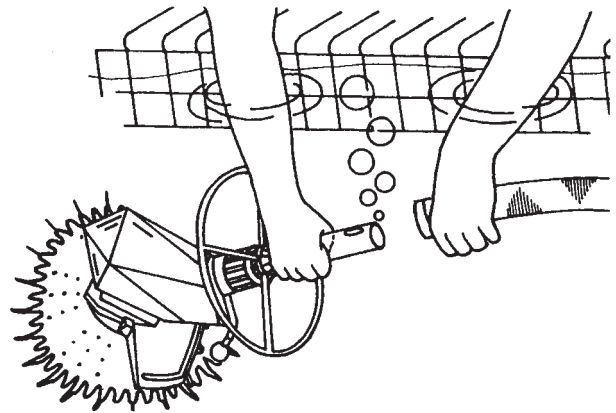


- 7.** At your pump, leave the valve for the deep end skimmer fully open and close the valve for the other skimmer until the Pool Pulse™ indicator falls into the ideal range. (When viewed from the side)

NOTE: If possible, mark the valve so it can simply be moved to the ideal position without using the Pool Pulse™ in future installations.



- 8.** Remove the Pool Pulse™. Submerge the Manta pool cleaner head. When bubbles stop coming from the extension pipe, attach the cleaner head to the female end of the hose.



IMPORTANT

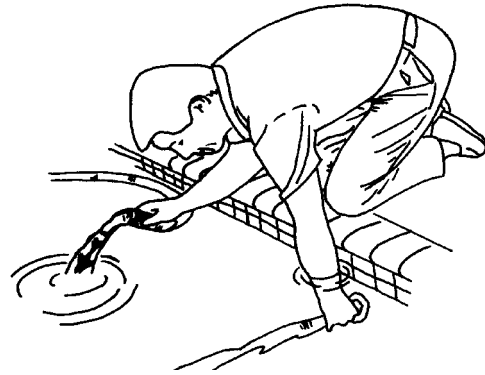
Please ensure that the hose weight is on the end of the hose for optimum performance.

Your assembly is now complete - enjoy!

INSTALLATION (C)

FOR POOLS WITH WALL VACUUM FITTINGS

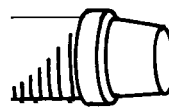
1. Fill the hose with water by placing the end over a return jet inlet.



IMPORTANT

Your hose is now free of air. Please ensure that the hose ends are kept under water while performing the following steps. This will prevent air from entering your system.

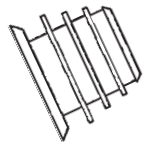
2. Insert the male end of the hose into the large end of the 45° elbow. Then insert the small end of the 45° elbow into the universal valve cuff.



MALE END
OF HOSE

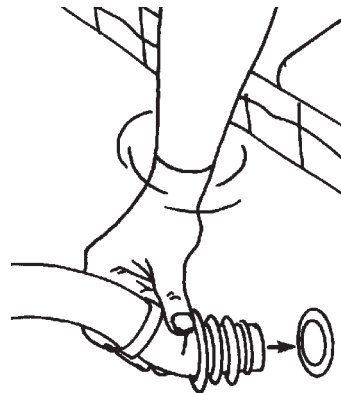


45° ELBOW

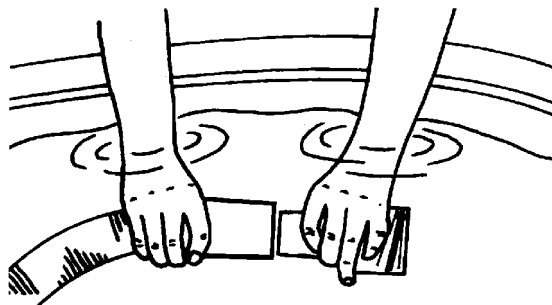


UNIVERSAL
VALVE CUFF

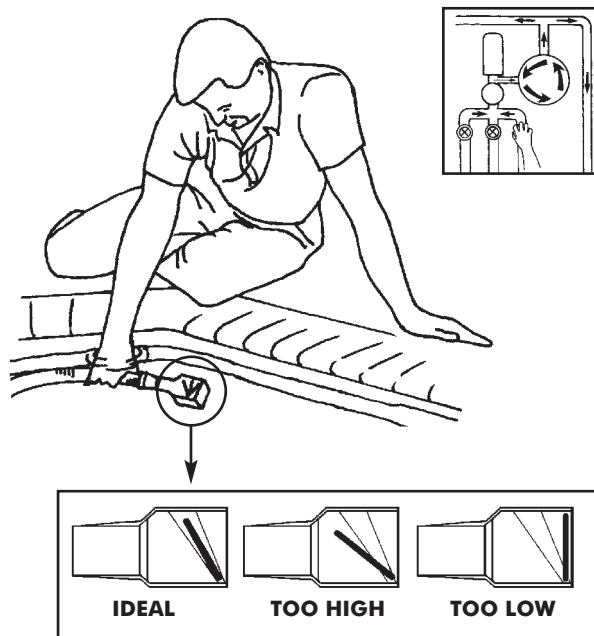
3. Insert the universal valve cuff into the wall vacuum fitting. The 45° elbow should be angled toward the surface.



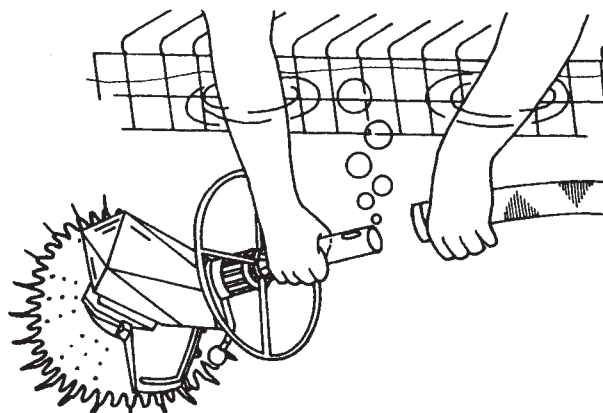
- 4.** Attach the Pool Pulse™ to the other end of the hose.



- 5.** At your pump, open the wall vacuum fitting valve fully and slowly close the skimmer valve until the indicator of the Pool Pulse™ falls into the ideal range (when viewed from the side).



- 6.** Remove the Pool Pulse™. Submerge the Manta pool cleaner head. When bubbles stop coming from the extension pipe, attach the cleaner head to the female end of the hose.



IMPORTANT

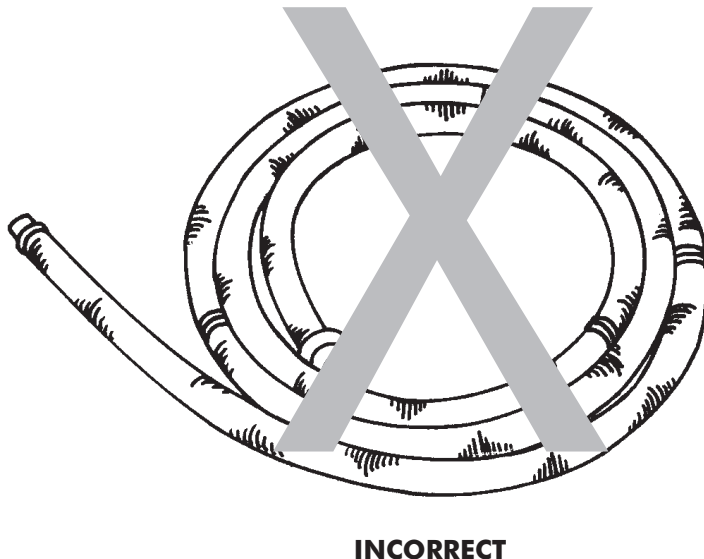
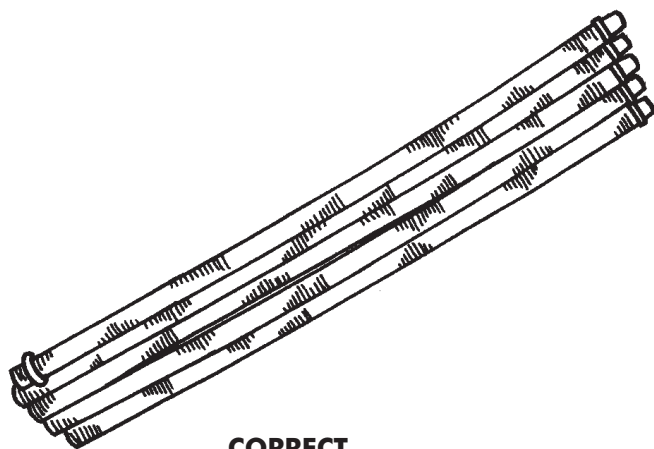
Please ensure that the hose weight is on the end of the hose for optimum performance.

Your assembly is now complete - enjoy!

CARE AND MAINTENANCE

Sunlight (ultraviolet rays), water and swimming pool chemicals create a harsh environment. To increase the lifespan of the Manta and hose, you should:

1. **Remove the Manta from the pool before super chlorinating and reinstall it a minimum of four hours later.**
2. Always store the hose straight or in its original box. To prevent memory, **NEVER** coil the hose. (Coiled hose can be straightened with hot water or by laying it on a warm pool deck for several hours.)



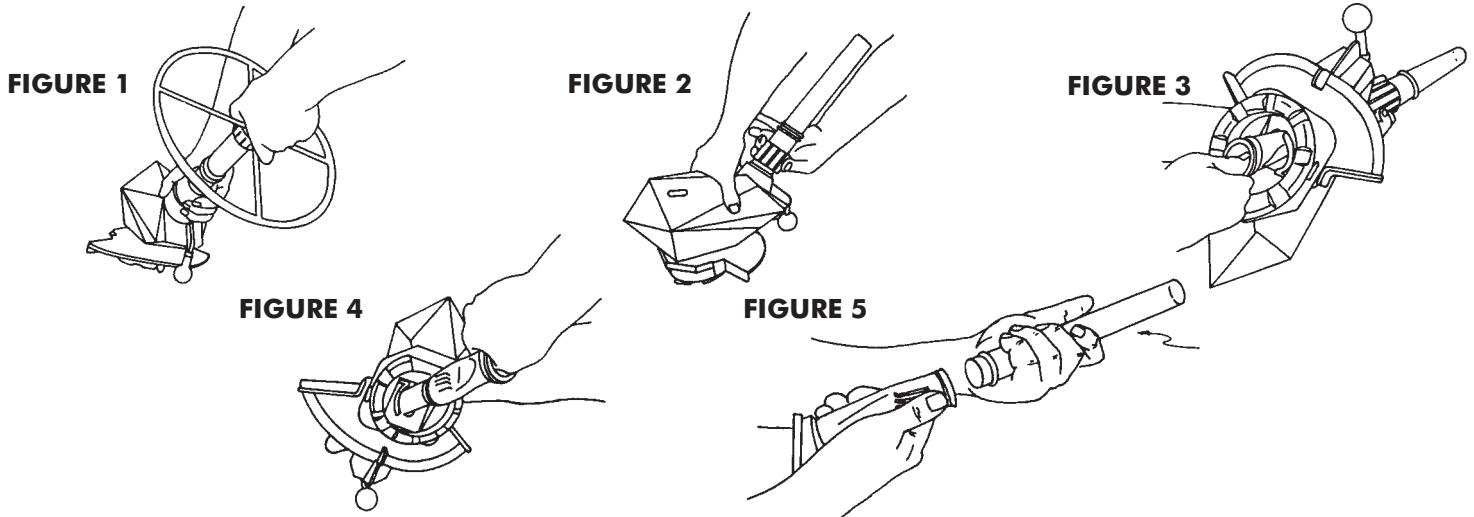
3. If you should develop an algae or chemical imbalance problem, remove the Manta, follow the advice of a qualified pool professional, and reinstall the Manta when the imbalance is corrected.
4. **ALWAYS** disconnect the hose from the skimmer or vacuum line **BEFORE** backwashing your filter.

CARE AND MAINTENANCE

Easy Access System

Large foreign objects, such as children's toys, tree branches and rocks, should be removed manually from your pool prior to operating an automatic pool cleaner. In the event a foreign object does not get manually removed and a blockage occurs, the **Easy Access System** allows you the opportunity to remove the blockage or check the diaphragm for damage in minutes at poolside.

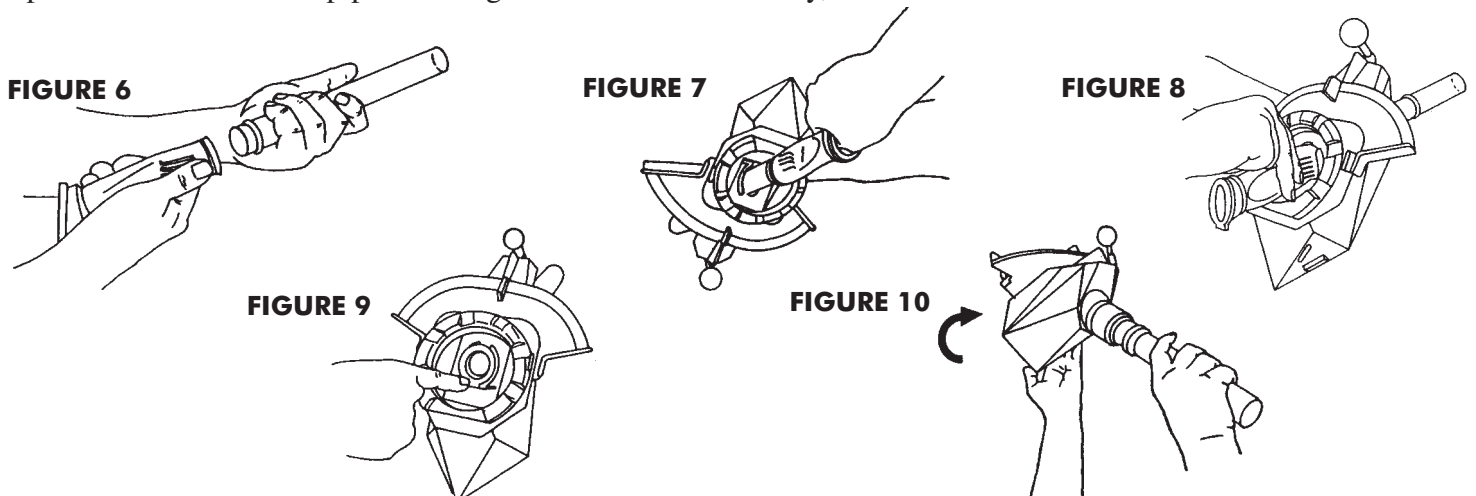
Remove the wheel deflector (Figure 1). Loosen the handnut by turning it counter clockwise one full turn (Figure 2). *Do not loosen or remove the handnut completely.* Turn the unit over, grasp the diaphragm by the flange (Figure 3) and pull the diaphragm/assembly out of the body (Figure 4). Remove the diaphragm from the inner extension pipe (Figure 5), leaving the retaining ring on the diaphragm.



Inspect the diaphragm for the blockage or damage. (If damage is evident contact your Baracuda dealer for a replacement.)

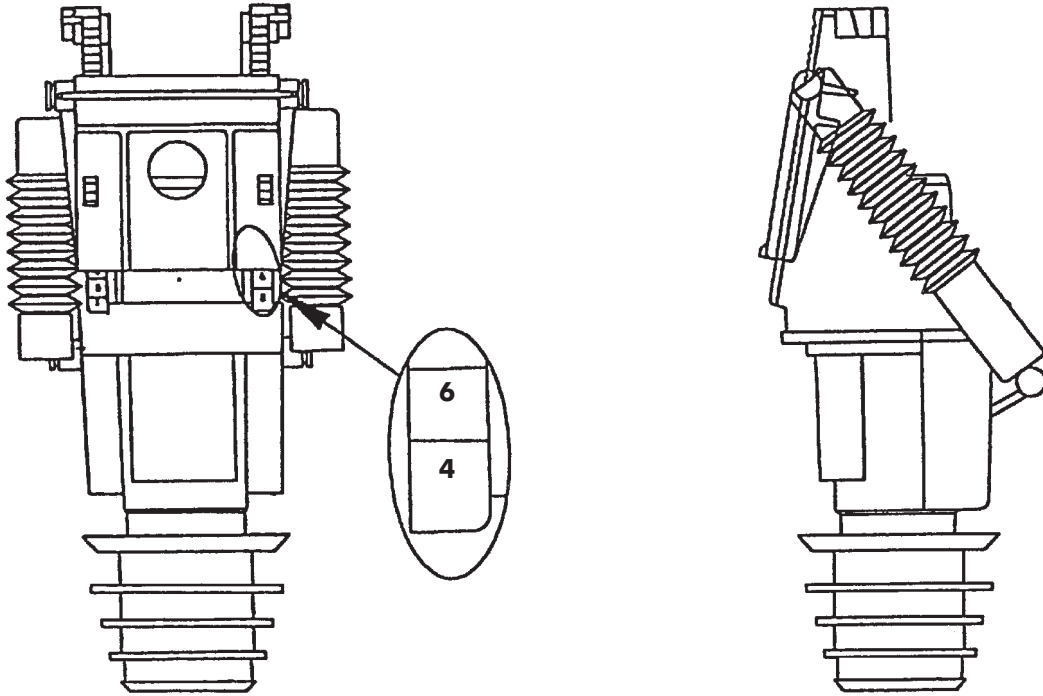
If a blockage is apparent, grasp it and remove it. If this can't be done, a garden hose may be used to flush the obstacle through. Do not use any sharp objects to probe or push an obstruction as this may damage the diaphragm.

Prior to reinstalling the diaphragm, rinse the diaphragm and the inner extension pipe thoroughly to remove any grit or algae. Attach the diaphragm to the inner extension pipe using the retaining ring (Figure 6). Slide the top of the inner extension pipe (the end which is opposite the diaphragm) into the body (Figure 7). Pressing on the underside of the diaphragm's ridges (Figure 8), push the diaphragm into the body, aligning the flange with the accommodating slot (Figure 9). The diaphragm should fit flush against the inlet plate. Tighten the handnut turning it clockwise. Do not overtighten. To check that the assembly has been done properly, turn the unit upside down, grip the outer extension pipe and spin the body (Figure 10). If it does not spin freely, loosen the handnut, spin the outer extension pipe and retighten the handnut. Finally, reinstall the wheel deflector.



FLOWKEEPER™

for pools with one skimmer

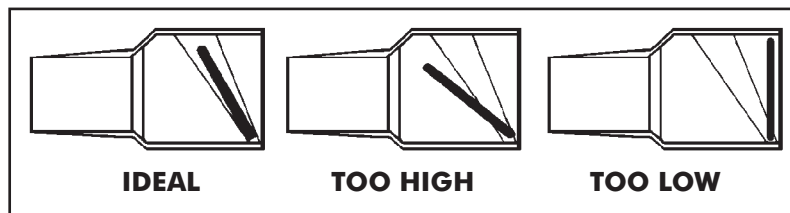


The FlowKeeper™ valve is designed to provide proper constant flow to the MANTA cleaner head. Skimming action is maintained through a bypass throat in the valve. As the filter collects debris, the valve automatically maintains the correct flow to the cleaner. The FlowKeeper™ valve comes preset from the factory at a setting of **6**. The last fully exposed number is the setting the valve is at. The lower the number, the lower the flow to the cleaner head. Should re-adjustment become necessary, either pull up on the slide plate to raise the setting or lift the top edge of the slide plate and “walk” the plate down to a lower setting. The FlowKeeper™ valve is only used in pools with one skimmer.

POOL PULSE™

The Pool Pulse™ flow meter is a tool which measures the volume of water flowing through your MANTA cleaner. It can be used to correctly set the flow on any installation and must be used with pools that have two skimmers or with pools that have wall vacuum installations.

If you have a problem with your MANTA, the Pool Pulse™ can help you determine the problem. Always use the Pool Pulse™ with the proper hose length for your pool. Keeping the end of the hose underwater, remove the cleaner head, submerge the Pool Pulse™ and attach it to the end of the hose. The blue indicator will show if the problem is flow to the cleaner or a problem with the cleaner head.

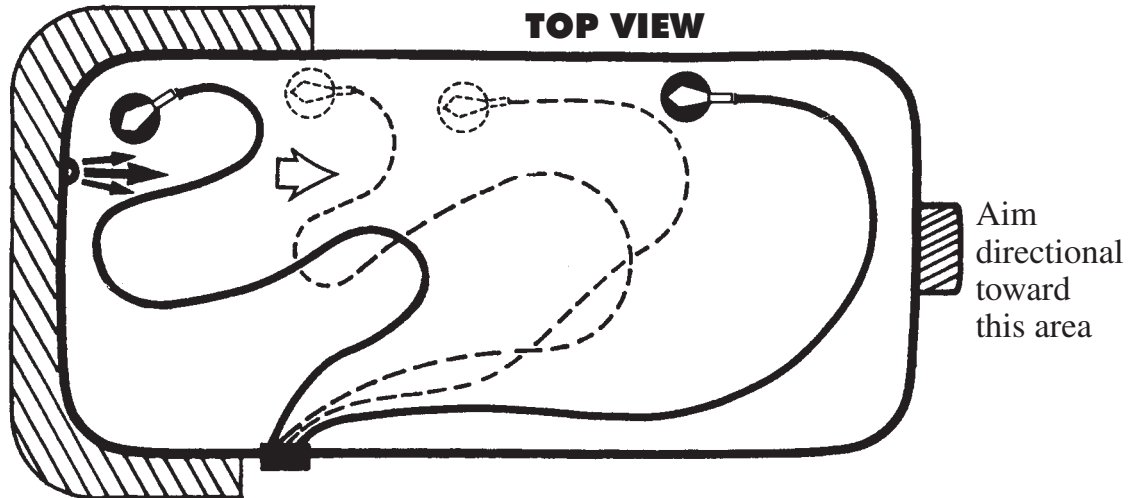


ADJUSTMENTS

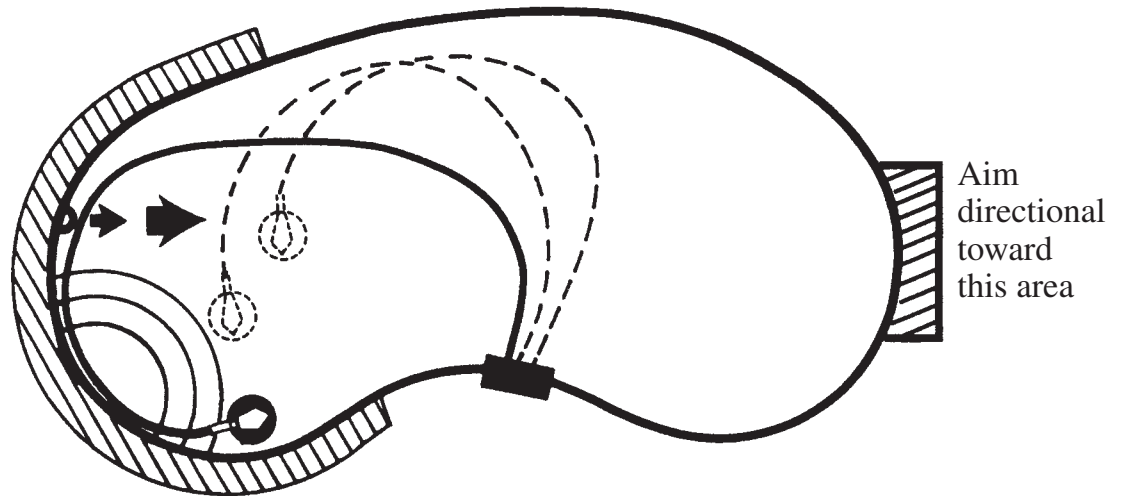
COVERAGE

Normally it is undesirable for the return line water flow to affect the natural movement of the MANTA hose. However, the following illustrations show how return line pressure can be used to balance cleaning coverage or to guide the cleaner away from step areas with "V" shaped corners.

A return line located anywhere along the shaded area can be utilized to elongate excess hose to "balance" pool coverage.

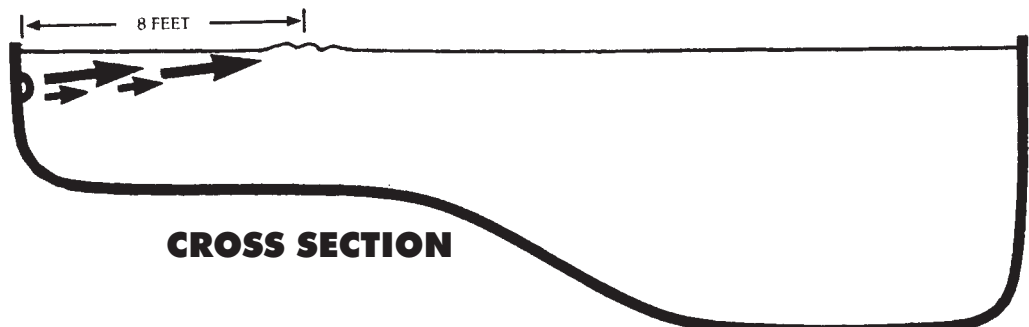


A return line located anywhere along the shaded area can be utilized to gently push the hose allowing the Manta to free itself from in-pool obstacles.



TECHNIQUE

Position the return line directional so that you can only detect water movement on the surface approximately 8 feet out from the wall, and aim it at the center of the opposite wall.



TROUBLESHOOTING


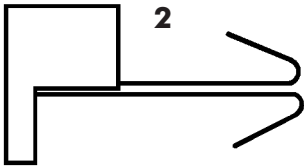

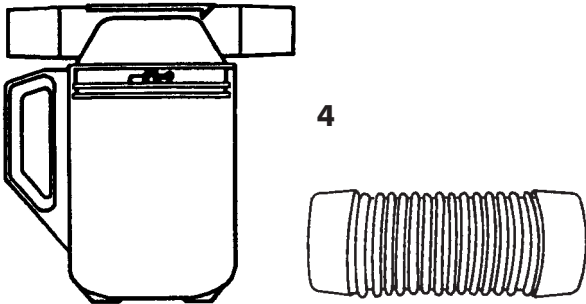
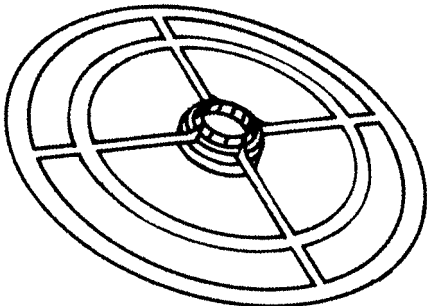
PROBLEM

SOLUTION

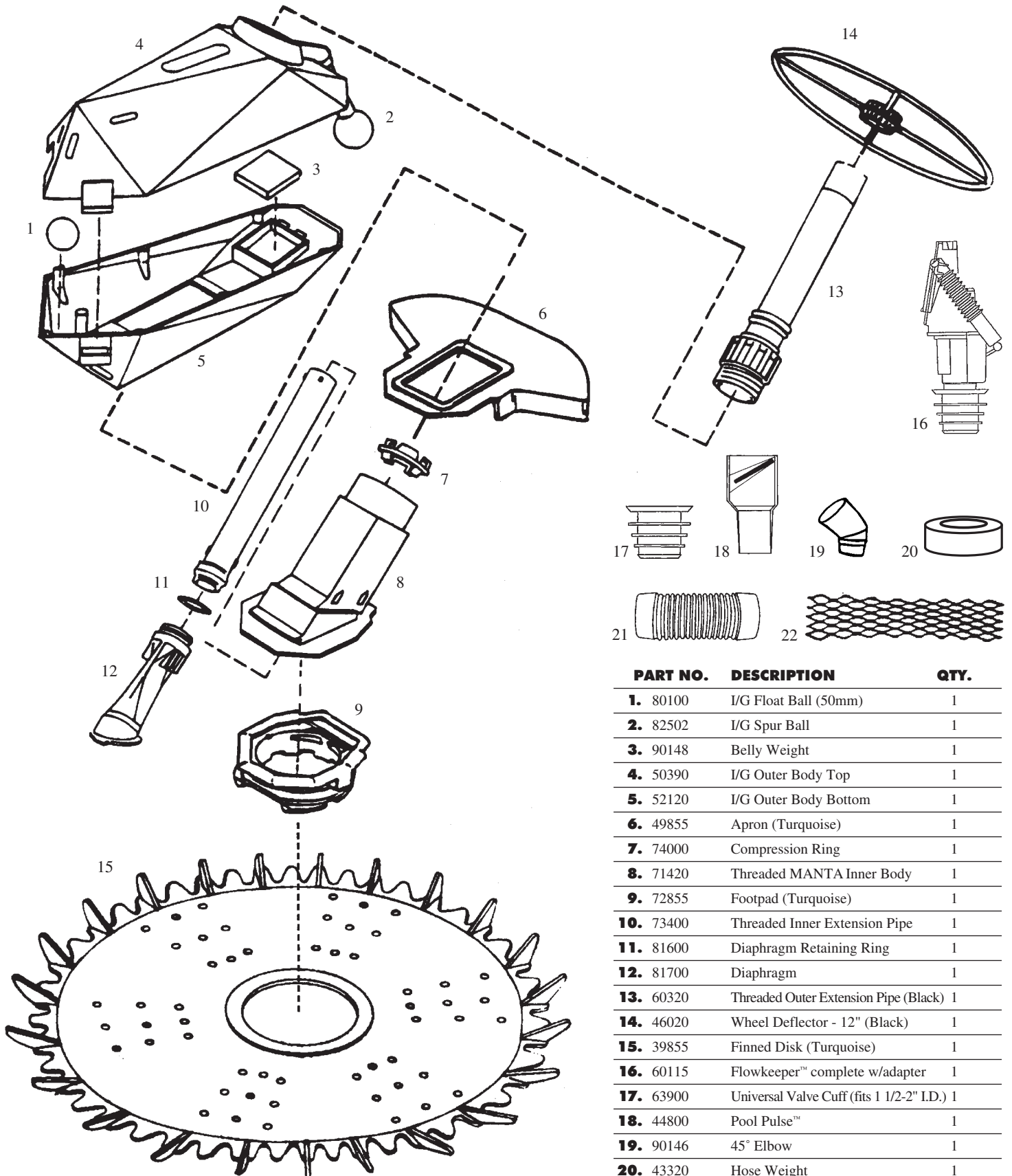
1. Machine does not move, or moves slowly.	<ul style="list-style-type: none">• Confirm that the main drain is closed.• Ensure ideal flow is being attained using Pool Pulse™. Note: In water 60° F or less, it may be necessary to increase flow to compensate for the reduced flexibility of the hose and diaphragm.• Check diaphragm for damage or wear (see Care and Maintenance).• Backwash filter and empty pump basket.• Check for air in system. If water level in pump basket drops, check hose connections, tighten all fittings at pump, check gasket in pump basket for wear.
2. Machine patterns or doesn't cover majority of pool.	<ul style="list-style-type: none">• Ensure ideal flow is being attained using Pool Pulse™. High flow will cause the cleaner to climb more.• Point return jets as far down as possible.• Make sure hose does not have memory from being coiled (see Care and Maintenance).• Ensure hose weight is on the first piece of hose, closest to the MANTA head.• Confirm proper hose length.
3. Machine sticks on ladder.	<ul style="list-style-type: none">• Ensure ideal flow is being attained using Pool Pulse™. Lower flow will bring the cleaner off the walls.• Ensure hose weight is on the first piece of hose, closest to the MANTA head.
4. Machine sticks in steps.	<ul style="list-style-type: none">• Check Pool Pulse™ for ideal flow.• Ensure correct amount of hose is being used (see Assembly). Shorten if necessary.• Utilize return jets as shown in adjustments section (page 17).
5. Machine stays on walls or edge of pool.	<ul style="list-style-type: none">• Reduce flow to low side of ideal range.• Ensure hose weight is on the first piece of hose, closest to the MANTA head.
6. Machine won't climb walls.	<ul style="list-style-type: none">• Machine may not climb walls of some vinyl pools or pools with safety ledges.• Ensure hose weight is on the first piece of hose, closest to the MANTA head.• Raise flow to high side of ideal range on Pool Pulse™.

If further assistance is required, please call 1-888-647-4004.

ACCESSORIES

PART ILLUSTRATION	PART NO.	DESCRIPTION
 <p>1</p>	1. 24000	Ladder Guard Always use on stainless steel in-pool ladders
 <p>2</p>	2. 24100	Return Line Diverter Use when no other return inlet directional fittings exist.
 <p>3A 3B</p>	3A. 90153 (for 1 1/2" return inlet) 3B. 90155 (for 2" return inlet)	Retrofit Eyeball Return Line Diverter Use to replace standard directional inlet eyeballs
 <p>4</p>	4. 27105	The Leaf Grabber with 4 1/2" Hose Connector Use when heavy debris or leaf situations exist.
 <p>5</p>	5. 46120	Large Wheel Deflector Use when extra clearance needed at steps or other obstacles.

PARTS DIAGRAM



PART NO.	DESCRIPTION	QTY.
1. 80100	I/G Float Ball (50mm)	1
2. 82502	I/G Spur Ball	1
3. 90148	Belly Weight	1
4. 50390	I/G Outer Body Top	1
5. 52120	I/G Outer Body Bottom	1
6. 49855	Apron (Turquoise)	1
7. 74000	Compression Ring	1
8. 71420	Threaded MANTA Inner Body	1
9. 72855	Footpad (Turquoise)	1
10. 73400	Threaded Inner Extension Pipe	1
11. 81600	Diaphragm Retaining Ring	1
12. 81700	Diaphragm	1
13. 60320	Threaded Outer Extension Pipe (Black)	1
14. 46020	Wheel Deflector - 12" (Black)	1
15. 39855	Finned Disk (Turquoise)	1
16. 60115	Flowkeeper™ complete w/adaptor	1
17. 63900	Universal Valve Cuff (fits 1 1/2-2" I.D.)	1
18. 44800	Pool Pulse™	1
19. 90146	45° Elbow	1
20. 43320	Hose Weight	1
21. 33120	4 1/2" Connector	1
22. 34765	Hose Protector Net	1

LET US HELP!

If you are having a coverage problem you cannot solve, mail or fax us the following information along with a sketch of your pool shape indicating the location of all skimmers, vacuum lines, inlets, stairs, ladders, swimouts, spas, waterfalls, filter systems or other significant features and a brief description of the problem.

MAIL TO: BARACUDA CANADA LIMITED,

1260 Lakeshore Rd. East #7, Mississauga, Ontario, L5E 3B8 or fax to: (905) 274-8975

CUSTOMER NAME: _____ TELEPHONE NO.: (_____) _____

ADDRESS: _____

CITY: _____ PROVINCE: _____ POSTAL CODE: _____

SERIAL NO.: _____ PURCHASED FROM: _____

POOL SURFACE (*circle one*): CONCRETE VINYL FIBERGLASS OTHER: _____

POOL SIZE: _____ PUMP SIZE (H.P.): _____

FILTER (*circle one*): SAND D.E. CARTRIDGE FILTER SIZE (or Model No.) _____

INDICATE PROBLEM: _____

BARACUDA CANADA LIMITED

1260 Lakeshore Rd. East # 7, Mississauga, Ontario, L5E 3B8
1-888-647-4004

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