

Automatic Pool Cleaner



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W90071

Instruction Manual

*Thank you for purchasing the world's simplest automatic swimming pool cleaner.
The Automatic Pool Cleaner has been designed and manufactured to be easily installed
and to provide years of low maintenance operation.*

- **REMEMBER TO REGISTER YOUR WARRANTY WITHIN
FOURTEEN (14) DAYS FROM DATE OF PURCHASE.**

Check that the following parts are included:

- (1) Machine head
- (1) Finned disc
- (1) AD Flow Valve
- (1) Hose weight
- (1) Wheel deflector
- (10) Hose lengths
- (1) Hose protector mesh
- (1) Leader hose adaptor (Pink)
- (1) Pool Pulse

**STOP: If any of the above listed parts are missing,
please contact your pool builder immediately.**

This Pool Cleaner is covered by one or more of the following Australian Patents and Registered Design:
Patent Nos. 539276, 576806, 583358 and 589683. Registered Design No. 105832.

Specifications and equipment subject to change without prior notice.

Automatic Pool Cleaner **TWO-YEAR WARRANTY**

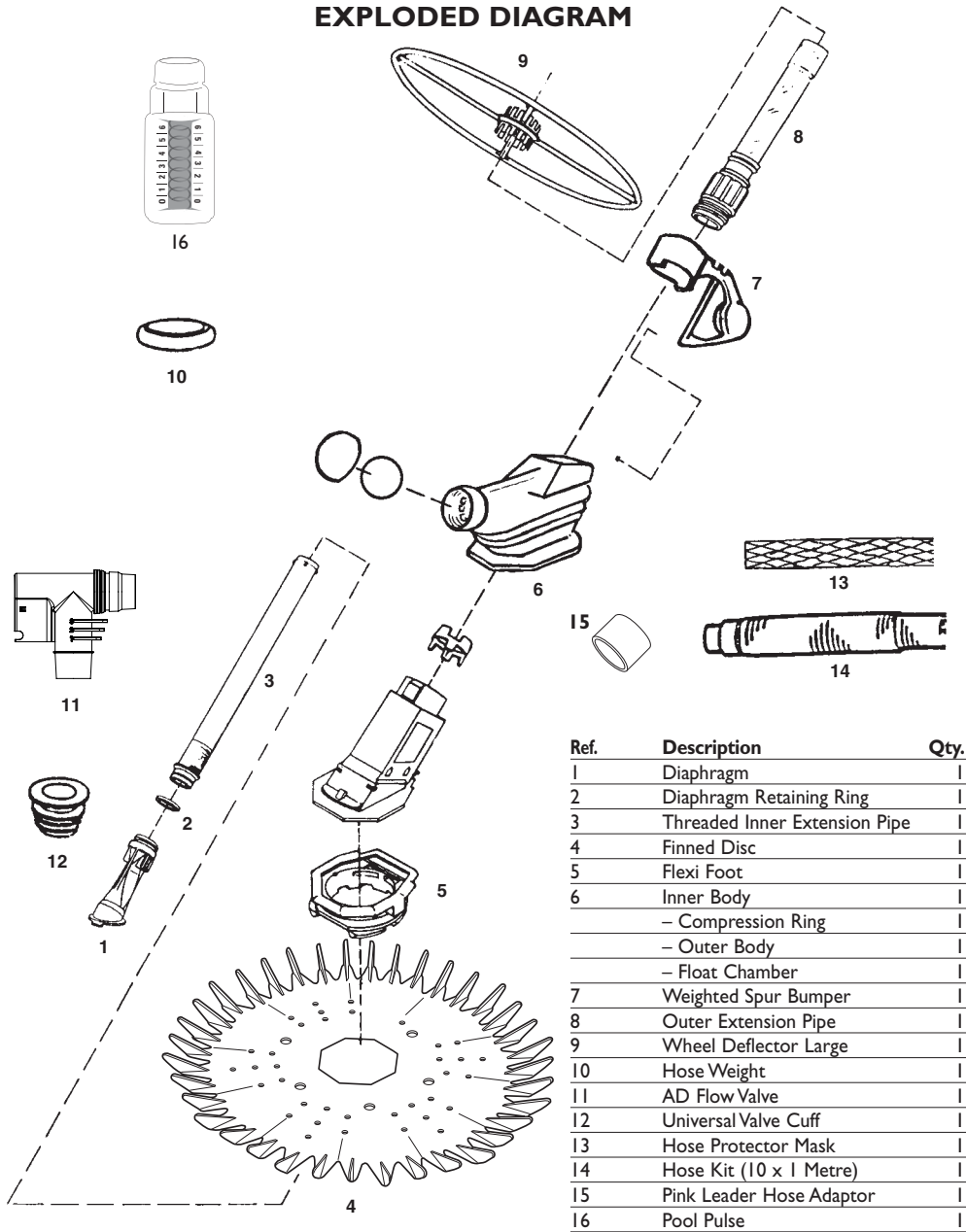
Zodiac Limited hereby warrants the parts of the Automatic Pool Cleaner against defective material or workmanship. In the event of there being any such defective material or workmanship encountered by the owner within a period of two (2) years from the date of purchase, Zodiac warrants to effect repair or replacement of the defective part free of charge provided the Cleaner is delivered to and collected from a duly authorised Automatic Pool Cleaner dealer. The warranty does not extend to parts subject the wear and tear in normal use and specifically the parts to which the warranty does not extend are the flexible foot, the deflector wheel and extension pipe. The Zodiac flexi-hose has a warranty of two (2) years. Zodiac can only guarantee the performance of the Automatic Pool Cleaner if a genuine Zodiac hose has been used.

The warranty does not extend to the colour of the Automatic Pool Cleaner or components. Discolouration may take place under normal conditions of use. Further Zodiac disclaims all liability for damage to pools including those lined with synthetic resin materials which may result from the use of the cleaner therein. The warranty will be honoured only if the pool cleaner is assembled and used in accordance with the instructions packed with the cleaner and if the attached warranty card is completed and returned within fourteen (14) days of the date of purchase to Zodiac.

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SECTION 8 – PARTS DIAGRAM

EXPLODED DIAGRAM



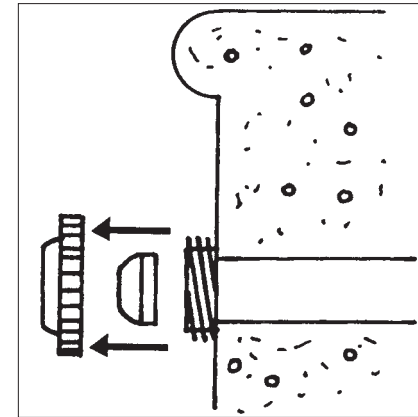
| Ref. | Description | Qty. |
|------|-------------------------------|------|
| 1 | Diaphragm | 1 |
| 2 | Diaphragm Retaining Ring | 1 |
| 3 | Threaded Inner Extension Pipe | 1 |
| 4 | Finned Disc | 1 |
| 5 | Flexi Foot | 1 |
| 6 | Inner Body | 1 |
| | - Compression Ring | 1 |
| | - Outer Body | 1 |
| | - Float Chamber | 1 |
| 7 | Weighted Spur Bumper | 1 |
| 8 | Outer Extension Pipe | 1 |
| 9 | Wheel Deflector Large | 1 |
| 10 | Hose Weight | 1 |
| 11 | AD Flow Valve | 1 |
| 12 | Universal Valve Cuff | 1 |
| 13 | Hose Protector Mask | 1 |
| 14 | Hose Kit (10 x 1 Metre) | 1 |
| 15 | Pink Leader Hose Adaptor | 1 |
| 16 | Pool Pulse | 1 |

SECTION I – PREPARING YOUR POOL FILTRATION SYSTEM

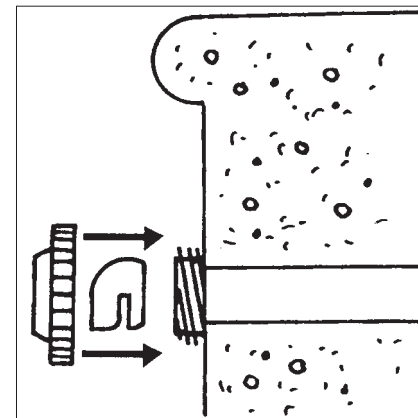
NOTE: If no return inlet directional fittings exist or directionals cannot be directed far enough down to prevent water flow from affecting the natural movement of the hose, you must install Automatic Pool Cleaner return line diverters. They are available through your Automatic Pool Cleaner dealer.

NOTE: A return line divider **MUST** be used in pools with only one return inlet.

For pools with return inlet directional fittings:



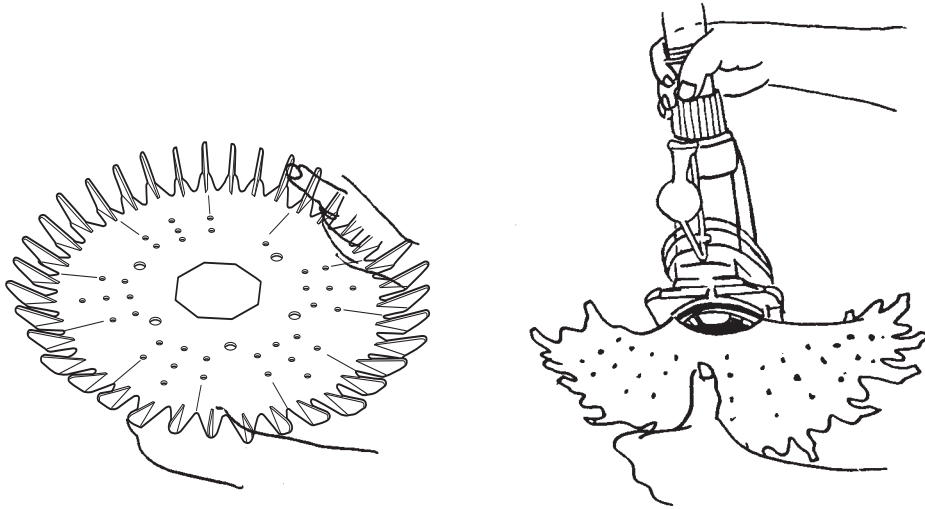
Remove the eyeball retaining ring and remove the directional eyeball.



Replace the directional eyeball with the Automatic Pool Cleaner retrofit eyeball return line diverter (Part No. ARL19), and reinstall eyeball retaining ring.

SECTION 2 – ASSEMBLY

Step 1: Slide the ribbed disc over the footpad. Be sure it fits properly in the grooves provided. The fins or ribs must be pointing upwards.



Step 2: Slide the Wheel Deflector over the extension pipe and secure between the two lowest pipe ridges.

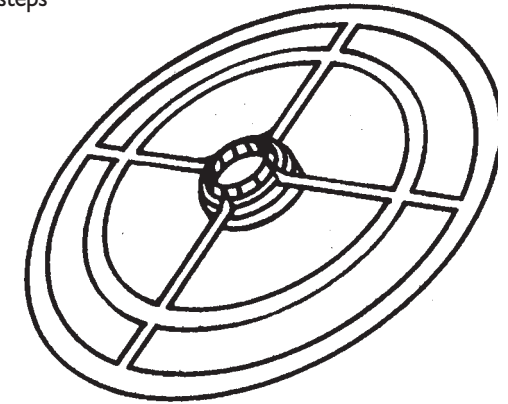
Note: The Automatic Pool Cleaner comes with the Bumper Fin already fitted to help the machine avoid obstacles such as ladders and some steps. The additional deflector wheel can be used for extra clearance at steps or other obstacles. If the wheel is fitted, the Bumper Fin (as shown on page 14) should be removed first, otherwise the wheel deflector will not turn freely.



SECTION 7 – ACCESSORIES

LARGE WHEEL DEFLECTOR

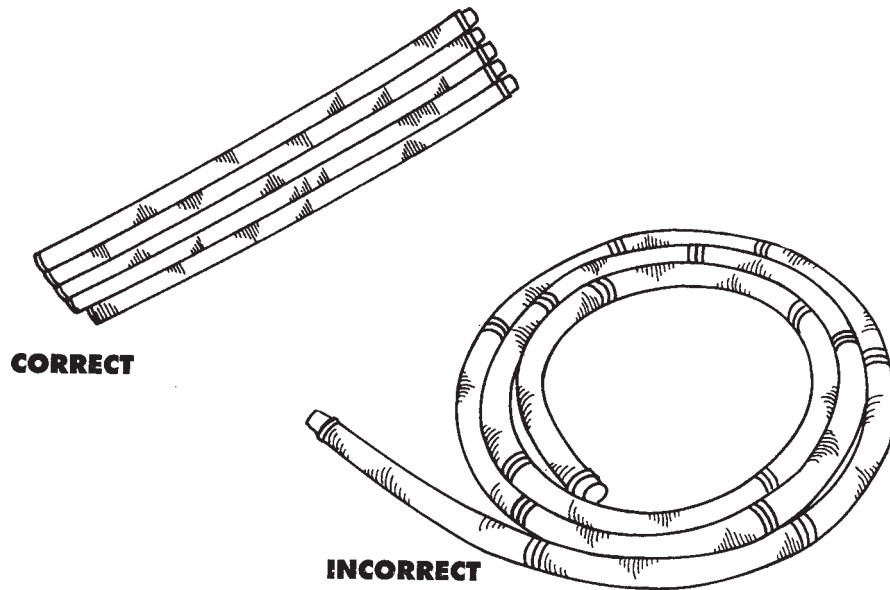
Use when extra clearance needed at steps or other obstacles.



SECTION 6 – CARE & MAINTENANCE

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

1. Remove the Automatic Pool Cleaner 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. NEVER coil the hose. (Coiled hose can be straightened with hot water or by laying it on a warm pool deck for several hours.)

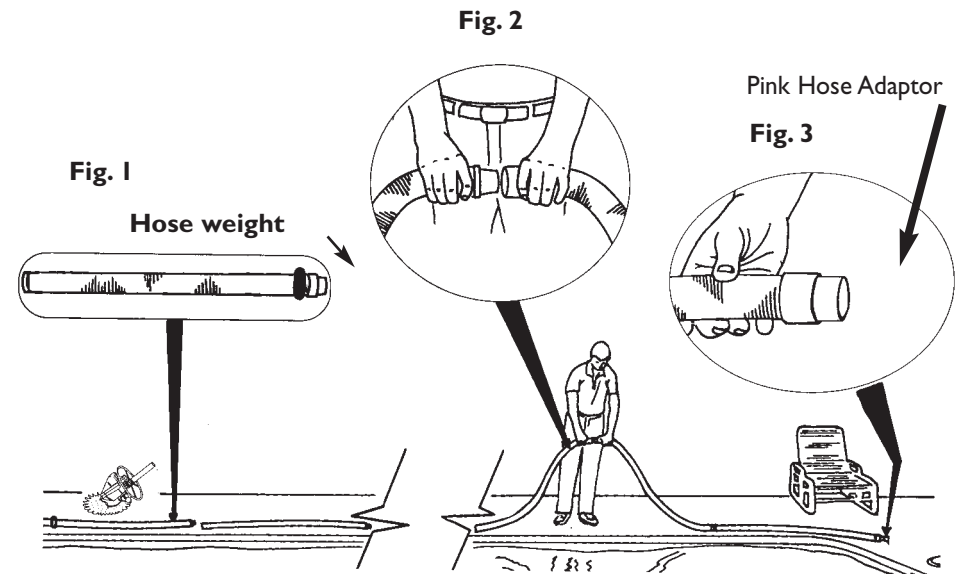


3. Periodically inspect parts for wear. The Flexi Foot and Disc are the most critical. When the depth of the channels between the treads of the Fixed Disc are 3mm or less, replace the Finned Disc.
4. If you should develop an algae or chemical imbalance problem, remove the Cleaner following the advice of a qualified pool professional, and reinstall the Cleaner when the imbalance is corrected.
5. ALWAYS disconnect the hose from the skimmer or vacuum line BEFORE backwashing your filter.

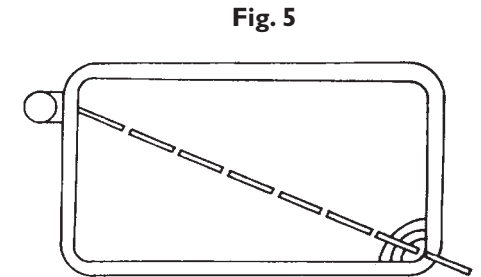
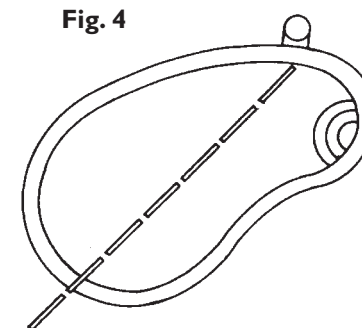
SECTION 3 – INSTALLATION

Insert the leader hose adaptor into one of the hoses to act as the leader hose. Fit the hose weight to the first hose length. If you require a second hose weight, it must be positioned at least 2 metres from the first hose weight. Assemble the hose to the correct length (Fig. 4/5). Now fit the hose protector mesh to the skimmer end of the hose.

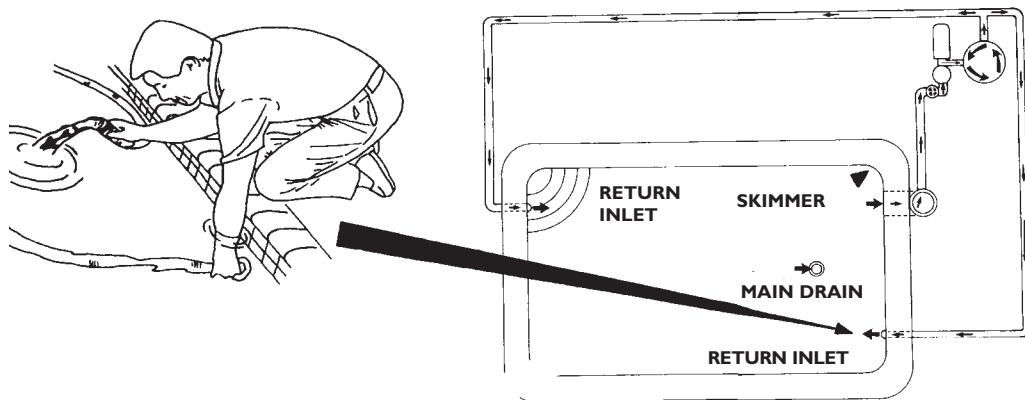
NOTE: Attach the leader hose (Fig.3) to the Automatic Pool Cleaner head and the other end of the hose to the connection point in your pool.



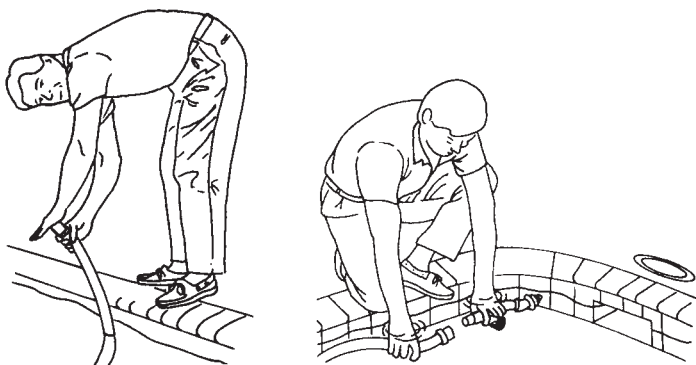
Use enough hose sections to reach the farthest point in the pool, plus one (1) section.



Step 2: Put wheel deflector on outer extension pipe of Automatic Pool Cleaner.



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



Step 4: With the weighted hose end in the pool, cover the other end (the end with the protector mesh) tightly with your hand. Move to the skimmer and attach this hose end to the regulator the AD Flow Valve.

A. REMOVAL OF DIAPHRAGM ASSEMBLY

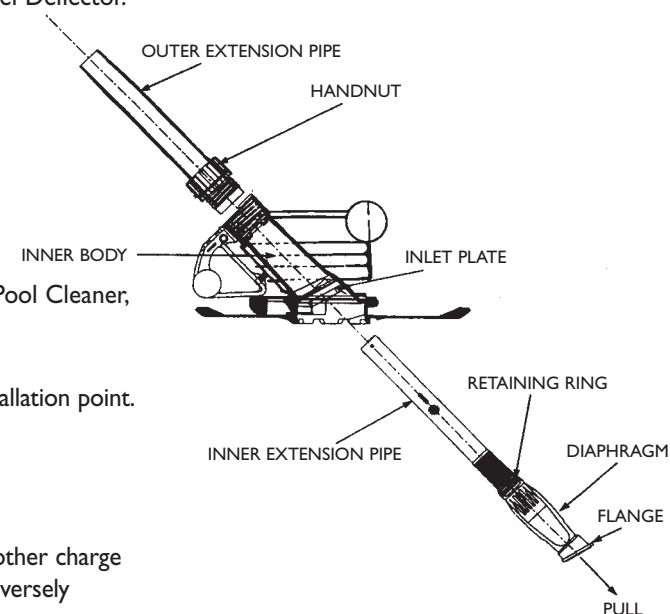
1. Remove the Wheel Deflector from the Outer Extension Pipe.
2. Loosen the Handnut by turning it counter clockwise at least one (1) full turn. Do not remove the Handnut completely.
3. Turn the unit over and grasp the Diaphragm by the flange. Pull the Diaphragm/ Inner Extension Pipe assembly out of the Inner Body.

B. EXAMINATION

1. Examine the Diaphragm for damage or blockage.
2. If damage exists, take the complete Automatic Pool Cleaner head to a pool professional for replacement of the diaphragm.
3. If no damage exists, re-assemble the unit. The Diaphragm self adjusts on re-installation.

C. RE-ASSEMBLY

1. Slide the Diaphragm/Inner Extension Pipe assembly into the bottom of the Inner Body and continue until the Diaphragm is set flush into the inlet plate. The flange of the Diaphragm should sit within its matching receptacle.
2. Turn the unit over and tighten the Handnut by turning clockwise until it stops. Do not over tighten! Hand tight is sufficient. If the Outer Extension Pipe will not spin, loosen the Handnut, spin the Outer Extension Pipe and retighten the Handnut.
3. Re-install the Wheel Deflector.



Reinstall the Automatic Pool Cleaner, turn the pump on.

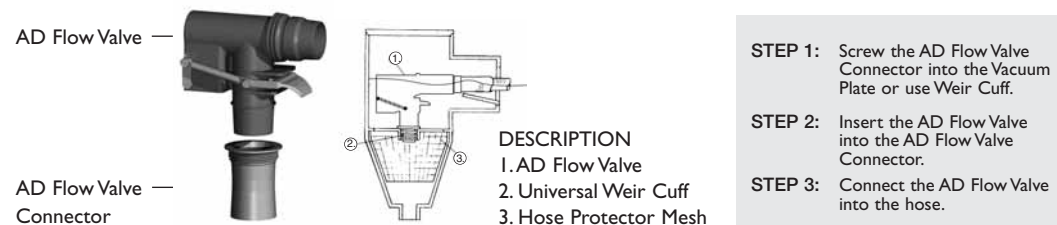
Check the following:

- a.) Tightness of fit at installation point.
- b.) Possible stuck valves.
- c.) Debris blocking lines.
- d.) Pump impeller.
- e.) Addition of solar or other charge in filtration system adversely affecting flow.

| SYMPTOM | PROCEDURE |
|--|--|
| 1. Cleaner is patterning. | Be certain that return inlet flow has been diverted as noted in "Prepare Pool and Filtration System" make sure hose does not have a memory from being coiled. Add one or two hose lengths. |
| 2. Cleaner is not covering the shallow end. | Divert return inlets, check hose length, check for hose coil memory, increase flow, or add second hose weight. |
| 3. Sticking at the steps. | Utilise return flow as shown in "Coverage" section. Use large Wheel Deflector or the Weighted Spur. |
| 4. Sticking at the side of stainless steel ladder. | Reduce suction. |
| 5. Flips upside down. | Replace Float. |
| 6. Cleaner not climbing walls. | Increase water flow by adjusting the AD Flow Valve. Machine may not climb the sidewalls of some vinyl pools or pools with safety ledges. |
| 7. Cleaner does not move (or runs and stops). | Clean filter, skimmer and pump baskets to increase the water flow of the filtration system. Check water flow. |
| Turn filter system off. Remove head from hose, turn it upside down and inspect for debris blocking the diaphragm. The Automatic Pool Cleaner is equipped with the latest innovation, the new Tech Free Flow Systems. | |
| NOTE: In cold water 15°C or less, water flow through the Automatic Pool Cleaner must be increased to compensate for the reduced flexibility of the hose and diaphragm. | |
| 8. Solar blanket installation | Coverage may vary or be limited due to friction between the hose and the blanket. (not recommended) |

AD FLOW VALVE

The use of the Zodiac AD Flow Valve is recommended on pools with only one skimmer box/suction point, or when the filtration system needs to be used but the pool cleaner does not, such as when people are swimming in the pool. It regulates the flow of water to the pump through the pool cleaner. As the filter collects debris, the valve automatically maintains the correct flow to the cleaner. For installation of the AD Flow Valve see below:



For connection of the AD Flow Connector into a non standard skimmer plate see below:
Waterco Skimmer Box = Screw in the AD Flow Valve connector from the top of the skimmer plate.
Poolrite Skimmer Box = Screw in the AD Flow Valve connector from the bottom of the skimmer plate.



If you do not have a Waterco or Poolrite Skimmer Plate then insert the AD Flow Valve into the Weir Cuff.

The AD Flow Valve comes preset at a factory setting of 2 to obtain maximum pool cleaning efficiency. If your water flow requires a higher or lower setting, you can adjust the valve to one of three settings: High (Setting 3), Medium (Setting 2) or Low (Setting 1).

You will only need to adjust the AD Flow Valve when the following occurs:

| PROBLEM | SOLUTION |
|--|-------------------------------------|
| The Cleaner is performing too fast and/or climbing above the level of the water. | Reduce AD Flow Valve to Setting 1 |
| The Cleaner is performing slowly and/or is not climbing the pool walls. | Increase AD Flow Valve to Setting 3 |

CORRECT BALANCING

An additional hose weight (Part No. M15) may be necessary to balance the cleaner head in pools deeper than 2.2m (7 1/4 feet). With the cleaner positioned in the deep end of the pool and the filter system turned OFF, position the second hose weight away from the cleaner head to achieve a straight hose for the first 1 1/2 to 2 sections.

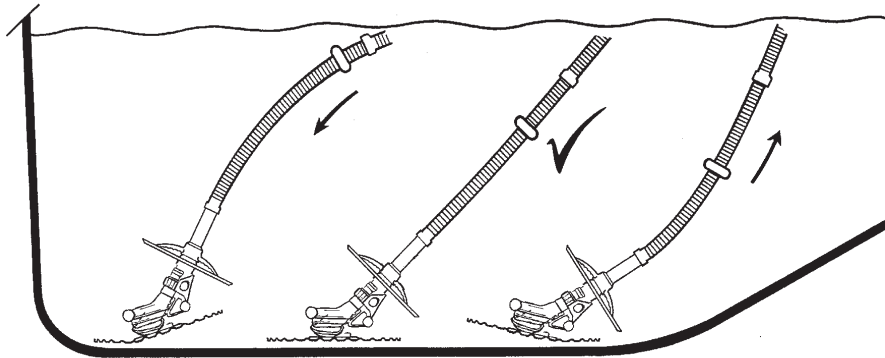
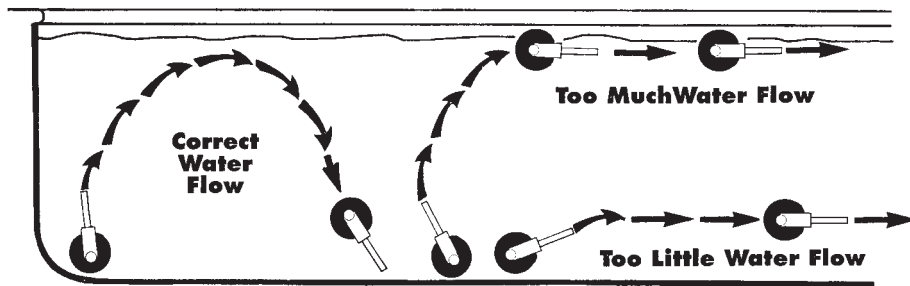


Diagram 6: Positioning of the hose weight

Flow and climb



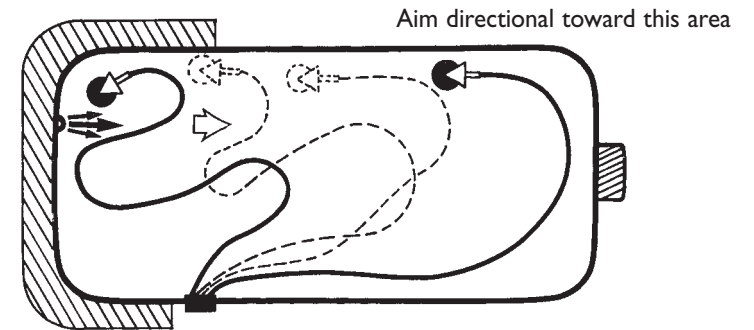
OBSTACLES

Use the wheel deflector or the bumper fin to help the machine to avoid/release from pool obstacles. DO not use both together as the wheel will not turn if used with fin.

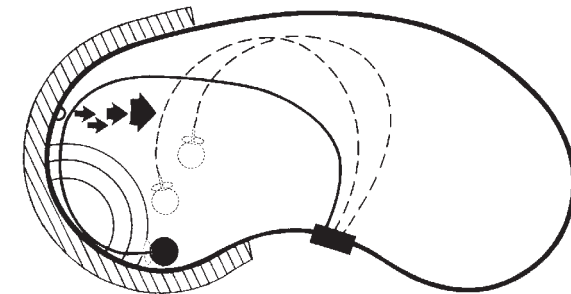
POOL COVERAGE

Normally it is undesirable for the return line water flow to affect the natural movement of the 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 utilised to elongate excess hose to "balance" pool coverage.



A return line located anywhere along the shaded area can be utilised to gently push the hose allowing it 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 centre of the opposite wall.



Cross Section