

**MAX-I-VAC
HYDROSWEEP
MIN-I-VAC
AUTOMATIC POOL CLEANER**

OWNERS MANUAL



www.monarchpoolsystems.com

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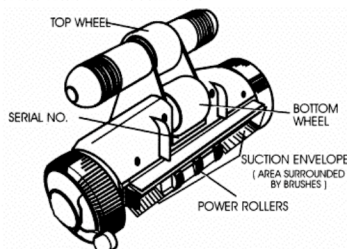
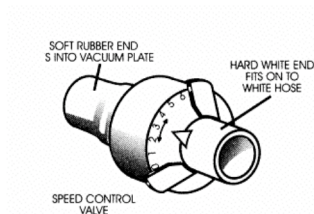
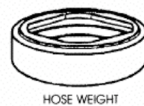
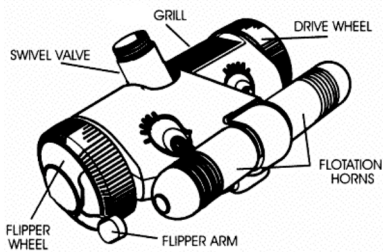
Message To The Pool Owner

Congratulations on the purchase of your Automatic Swimming Pool Cleaner.

The Pool Cleaner has been designed to keep your swimming pool clean whilst you simply relax and enjoy swimming in your clean pool!

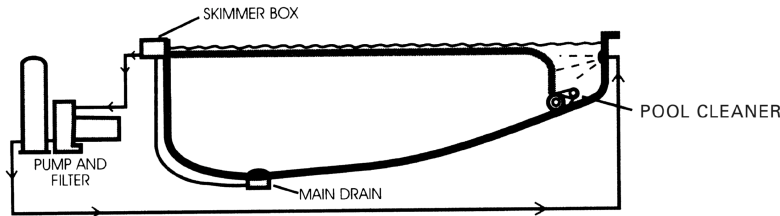
The illustrations below identify the Pool Cleaners components. Please ensure you familiarise yourself with them.

Note: Min-i-vac does not require or consist of Hose Weight or Speed Control Valve.



Pre-Installation of your Automatic Pool Cleaner

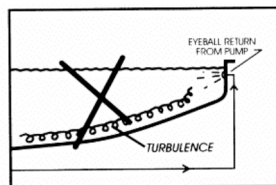
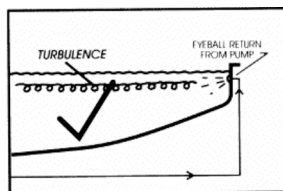
Before you begin to install the Automatic Pool Cleaner it is important you have a basic understanding of how the pool water flows from the skimmer, through the pool pump and filter returning to the pool. Below is a schematic diagram of a typical pool with standard equipment showing how the water usually flows. If you are still unsure, simply refer to your local Monarch Pool Systems Dealer for assistance.



It is very important that prior to Pool Cleaner installation the filter has been cleaned, the skimmer and pump baskets emptied and any main drain line or second skimmer box are completely closed off. Some skimmer boxes require the use of an expanding or threaded plug to effectively close off the main drain line. If you are unsure, simply refer to your local Monarch Pool Systems dealer.

The water returning to the pool via the eyeball returns can sometimes cause turbulence along the floor or the surface of the pool. This can cause the Pool Cleaner to 'rear up' or can influence the free movement of the cleaner hose. The eyeballs should be directed parallel with the pool surface so that the water returning to the pool causes as little turbulence on the floor or surface of the pool as possible.

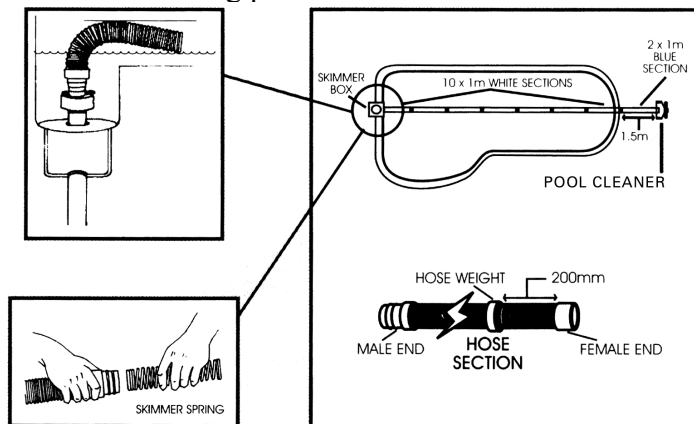
TIP: To reduce turbulence the restrictors (eyeballs) from the centre of the pool returns can be removed and replaced with deflector eyeballs available from most pool retailers.



Pre-Set Up

Max-i-vac and HydroSweep - Connect enough of the cleaner hose sections together so that when assembled it reaches from the skimmer to the furthest point in the pool plus approximately 1.5 metres, ensuring the connections are pushed together firmly. Slide the hose weight over the female end of the hose section and position approximately 20cm along. Push the female end of the hose firmly into the swivel valve on the Pool Cleaner head.

The skimmer spring is designed to prevent the cleaner hose imploding where it exits via the front of the skimmer weir. It should be inserted into the hose and positioned in the centre of the bend. This end should now be connected to the spigot of the speed control valve by pushing the hose cuff over the spigot of the valve. In some shallow skimmer boxes, it may be necessary to cut the hose cuff off and push the hose directly onto the speed control valve. Rotate the Pool Cleaner body under water to dispel any air, feed the cleaner hose vertically into the pool so that it fills with water and with the speed control valve on the '0' setting push the rubber end of the valve firmly into the vacuum plate.



Min-i-Vac - is supplied with a specially formulated one piece 9m hose. The hose has a tapered cuff for connection into the vacuum plate (suction point) and a female fitting for connection to the swivel valve of the Min-i-vac. The hose length should be one metre longer than the distance from the skimmer to the furthest point in the pool. Additional hose lengths can be purchased separately and connected to the female fitting of the 9m hose. To shorten, cut and remove excess hose leaving approximately 250mm of hose before Pool Cleaner and rejoin with hose joiner. Connect female fitting of hose into Min-i-vac swivel valve, rotate Min-i-vac under water to dispel any air, feed the hose vertically into the pool so that it fills with water and push the hose cuff firmly into the suction point. Turn on the pump and ensure there is no leakage around suction point.

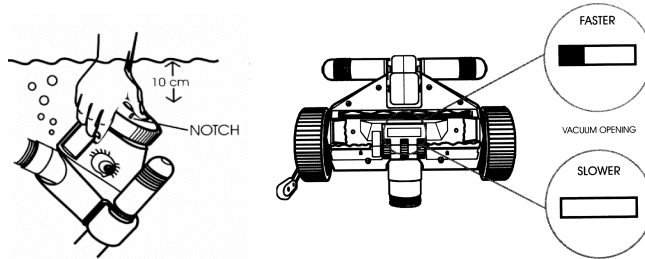
Tip: The 9m hose section will retain a memory from being coiled in the carton. This must be removed by laying the hose in the sun for several hours or pouring hot water over the hose whilst laying straight. This will ensure correct operation of the Pool Cleaner.

Set Up – All Pool Cleaners

After switching on the pool pump, turn the body of the speed control valve clockwise from the '0' position until the Pool Cleaner is moving along at approximately 9 metres per minute. At this speed the drive wheel is turning at approximately 24 revolutions per minute. You can check this by holding the Pool Cleaner under the water with the drive wheel facing up and counting the number of revolutions of the drive wheel notch.

Note: Min-i-vac is factory set to move along at 9 metres per minute. This can be checked as above. If a speed control valve is required refer overpage - Fine Tuning Min-i-vac.

If the Pool Cleaner is moving too slowly and the main drain line and any second skimmers are fully closed, all leaf baskets clear and the filter clean, the speed can be increased by closing the size of the vacuum opening as shown.



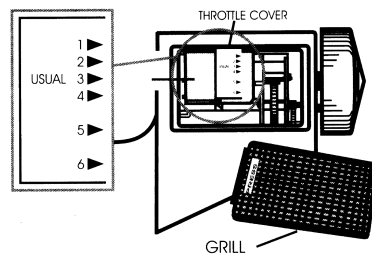
TIP: The Pool Cleaner can continue to operate effectively at speeds as low as 6-7 metres per minute. Do not exceed 24rpm of the left hand drive wheel, check as per instructions above. If the Pool Cleaner travels too fast it will tend to brush light debris aside and rear up, reducing vacuum power, too slow and the Pool Cleaner may stall or take too long to clean the pool.

Fine Tuning

Min-i-vac - standard settings are: Vacuum opening full open position and red turbine throttle cover (under grill) on position 3. Fine Tuning is generally not required. To increase speed gradually reduce the size of the vacuum opening until the correct speed is achieved. Do not exceed 24 rpm of the left hand drive wheel as per Set Up instructions. To decrease speed leave vacuum opening in full open position and select 2 or 1 on red turbine throttle cover until correct speed is obtained by counting revolutions of the drive wheel notch.

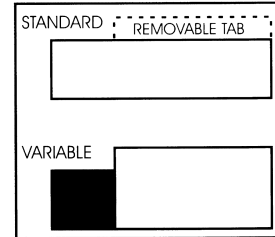
With very large pumps a speed control valve and hose skimmer spring may be required for further speed limiting. If these are required simply cut away hose cuff, insert spring inside hose, fit hose to top of speed control valve and insert valve into suction point. With the red turbine throttle cover in the 'usual' position, adjust the speed control valve to obtain the correct forward speed of 24 rpm.

Max-i-vac/ HydroSweep - *Pool Cleaner Running Slowly* - if after adjusting the vacuum opening the Pool Cleaner is still travelling too slowly, the speed can be increased by changing the position of the red turbine throttle located under the grill to position 4 or 5.



Not Enough Traction – if the Pool Cleaner is losing traction and not turning correctly, the traction can be increased by adjusting the red turbine throttle to position 1 or 2, and then resetting the forward speed to 24 revolutions per minute. This will provide more traction to the wheels.

Variable Size Vacuum Opening – to enable the Pool Cleaner to remove palm nuts, acorns or similar types of debris, the shape of the vacuum covered opening can be altered by removing the tab on the swivel valve and adjusting the swivel valve insert as shown.

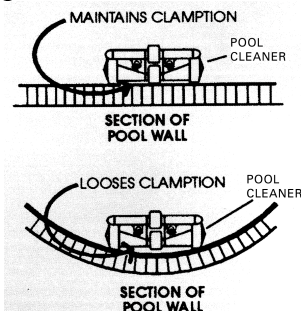


Wall Climbing

Note: Min-i-vac has been engineered as a bottom vacuum automatic pool cleaner and is not designed to climb walls.

Most dirt, leaves and debris settles on the floor of the pool. If you would like your Pool Cleaner to climb the walls of your pool you can adjust the red turbine throttle (located under the grill) to position 1 and set the forward speed to 22-24 rpm.

Please note that in order to climb, the Pool Cleaner requires the correct amount of suction and traction. It also requires the suction envelope to be in full contact with the wall or floor of the pool. If the wall is curved inwards or outwards it will be difficult for the Pool Cleaner to maintain both suction and traction. The finish on some pools can also make it difficult to maintain suction and traction such as fully tiled pools or pools with a coarse pebble finish.



Powered Roller

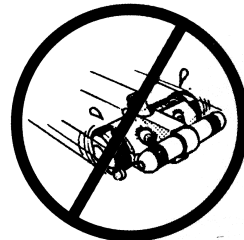
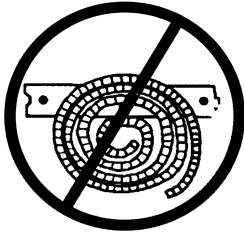
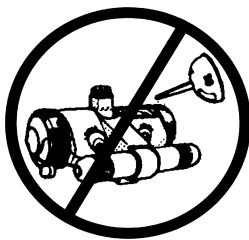
The Pool Cleaners Powered Roller turns at half the speed of the main wheels and is normally about 4mm clear of the floor. They assist in overcoming obstacles which are commonly found in swimming pools such as main drains, transition ledges and convex curves on steps or swim-outs. They are also helpful for high spots in the floor of the pool.

TIP: Large leaves and twigs may get caught around the powered roller. Lift the Pool Cleaner to just below the waters edge and remove the debris.

Maintenance

Pool Cleaner moves slowly: (a) Clean out the skimmer and pump baskets
(b) Clean or backwash the filter
(c) Remove any leaves or twigs from the Powered Roller

Do not ever: (a) Put any oil, grease or other lubricants on the Pool Cleaner Body or moving parts. Water is the only lubricant required.
(b) Store cleaner hose in a coiled position. It is manufactured using special materials which enables hose memory and may cause the hose to lay awkwardly on the water preventing the Pool Cleaner from moving freely around the pool.
(c) Operate the Pool Cleaner constantly at a forward speed above 24 rpm, this makes the Pool Cleaner work 2 or 3 times harder than required and may cause unnecessary wear and tear not covered by warranty.
(d) Remove Pool Cleaner from the pool by the hose. Whilst full of water the cleaner is heavy and may fall off the hose and cause damage.



Flipper Arm: is designed to lift and reverse the Pool Cleaner away from obstacles. The flipper arm boot should be replaced when worn to prevent damage to the pool surface.

Ladder (Above Ground Pools): should be removed when the Pool Cleaner is operating, or an obstacle placed on pool floor on both sides of the ladder feet to prevent Pool Cleaner being caught behind it.

Vacuum Opening: Dirt may lock adjustment after time, clean periodically.

Operating Time: It is good practice to operate your Pool Cleaner for the amount of time required to clean your pool only. However, no damage will be incurred if the Pool Cleaner is connected to the filtration system all the time.

TIP: If the pool surrounds are not grassed or paved utilise your Pool Cleaner only when your pool requires vacuuming. Sand and debris is easily vacuumed from the floor of the pool, however if sand falls on top of the Pool Cleaner and enters via the grill it may cause the wheels to lock. Remove Pool Cleaner from the pool when vacuuming is complete until the pool surrounds have been completed. If sand does fall on top of the Pool Cleaner and locks the wheels, remove the grill and try unlocking them by rotating the large gear wheel inside whilst hosing with a jet of water from a garden hose.

Troubleshooting Guide

Problem: Pool Cleaner slows down or stops

Check the following:

- Clear skimmer and pump baskets
- Cleaner hose is correctly assembled
- Filter is clean
- Vacuum plate is correctly seated
- Hose cuff is seated in vacuum plate (*Min-i-vac only*)
- Speed control valve is seated correctly in vacuum plate
- Main drain and second skimmer (if applicable) are blocked
- Obstruction in cleaner or hose (remove cleaner grill and gently flush with water from a garden hose)

Problem: Pool Cleaner will not turn away from wall or clean all of pool floor

Check the following:

- Hose too short, add another length
- Hose tangled, flush swivel valve with garden hose or dismantle and remove obstruction
- Hose been stored in coiled position, straighten hose and pour hot water over it to relieve hose memory
- Algae on bottom of pool, chemically balance pool water
- Reduced water flow

Problem: Pool Cleaner operates with wheel off the ground or floats off the pool floor

Check the following:

- Forward speed too fast, fine tune as per instructions or rotate cleaner head several times to remove trapped air
- May require speed control valve (*Min-i-vac only*)
- Pool in excess of 2m deep, add extra length of blue hose

TIP: If you continue to experience difficulties in the operation of your Pool Cleaner please refer to your local Monarch Pool Systems Dealer for assistance.