

# THE ECLIPSE HEX 5

## LIMITED WARRANTY

Within two years from the date of original purchase, Marineland Aquarium Products will repair or replace, at its option, any Eclipse Hex 5 which is deemed defective in workmanship or materials.

Please return the unit, together with proof of date of purchase, to your local dealer or send unit (postage paid) to:

**Marineland Aquarium Products**  
6100 Condor Drive  
Moorpark, CA 93021

This aquarium is under warranty against leaks or cracks due to defects in material or workmanship. If this aquarium is found to be defective - and has not been modified, damaged or misused - call Marineland Aquarium Products at (800) 322-1266 for a replacement (proof of date of purchase must be provided).

This warranty is void if the aquarium is not placed on a flat, level surface designed to support this size aquarium or if the aquarium is moved when it is not completely empty or if it is used for other than its intended purpose. Warranty does not cover loss of fish, personal injury, property loss or damage arising from use of the aquarium.

Damage or injuries resulting from negligence or misuse are not covered by these warranties. Incidental or consequential damages are specifically excluded\*. These warranties give you specific legal rights. You may also have other rights which vary from state to state.

\*Because some states do not allow the exclusion of incidental or consequential damages, this exclusion may not apply to you.



The Eclipse Hex 5 is listed by Underwriters Laboratories to ensure that it meets stringent U.S. and Canadian safety requirements.



Marineland, Eclipse, BIO-Wheel and Black Diamond are trademarks of AQUARIA, Inc.

## Owner's Manual

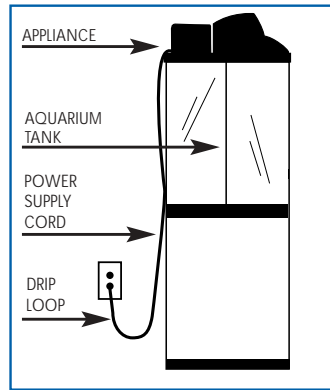
# IMPORTANT SAFEGUARDS

**WARNING:** To guard against injury, basic safety precautions should be observed, including the following.

## READ AND FOLLOW ALL SAFETY INSTRUCTIONS

**DANGER:** To avoid possible electric shock, special care should be taken in the use of aquarium equipment. For each of the following situations, do not attempt repairs yourself. Return the appliance to an authorized service facility for service or discard the appliance.

1. A. If the appliance falls into the water, DON'T reach for it. First unplug it and then retrieve it. If electrical components of the appliance get wet, unplug the appliance immediately.
- B. If the appliance shows any sign of abnormal water leakage, immediately unplug from the power source.
- C. Carefully examine the appliance after installation. It should not be plugged in if there is water on parts not intended to be wet.
- D. Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or if it is dropped or damaged in any manner.
- E. To avoid the possibility of the appliance plug or receptacle getting wet, position aquarium stand and tank to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. A "drip loop," shown in the figure at right, should be arranged by the user for each cord connecting an aquarium appliance to a receptacle.



The "drip loop" is that part of the cord below the level of the receptacle or the connector, if an extension cord is used, to prevent water from traveling along the cord and coming in contact with the receptacle. If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug and examine for presence of water in the receptacle.

2. Close supervision is necessary when any appliance is used by or near children.
3. To avoid injury, do not contact moving parts or hot parts such as heaters, reflectors, lamp bulbs, etc.
4. Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect.
5. Do not use an appliance for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
6. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing.
7. Make sure an appliance mounted on a tank is securely installed before operating it.
8. Read and observe all the important notices on the appliance.
9. If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
10. This appliance has a polarized plug (one blade is wider than the other). As a safety feature, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not attempt to defeat this safety feature.

## SAVE THESE INSTRUCTIONS

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# THE ECLIPSE HEX 5



Perfect for home or office, the silent-operating Eclipse Hex 5 is the only aquarium of its kind with total three-stage BIO-Wheel filtration. The hexagonal tank delivers optimum design profile and leakproof durability. The contoured light hood includes a convenient front access port for easy feeding and plugs into any standard household outlet.

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## What is 3-Stage Filtration... and Why is it Important?

A healthy, successful aquarium requires these three types of filtration.

### **Mechanical Filtration**

traps solid debris like uneaten food and fish waste.

### **Chemical Filtration**

uses media (activated carbon) to adsorb (attract and hold) dissolved pollutants which can cause discoloration and odor.

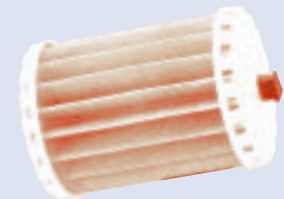
### **The Eclipse Filter Cartridge**

supplies both mechanical and chemical filtration. For mechanical filtration, there's a polyfiber filter pad to trap dirt and debris. For chemical filtration, each cartridge is packed with Black Diamond Premium Activated Carbon...the best there is.

### **Biological Filtration**

is the *most* important kind of filtration. It depends on a culture of bacteria to help get rid of ammonia and nitrite that build up in aquarium water. The bacteria changes the harmful ammonia and nitrite into harmless nitrate, which is removed with a partial water change.

**The patented BIO-Wheel® is the undisputed best** when it comes to biological filtration. Years of continuing laboratory tests and field evaluation prove it.



## BIO-Wheel does it better!

As BIO-Wheel turns, it contacts water and air...providing beneficial bacteria with the oxygen they need to grow. Because BIO-Wheel is a *wet/dry* biological filter, it provides the bacteria with as much as 30,000 times more oxygen than any *underwater* biological filtration. More oxygen means more bacteria working many times harder (and many times faster) to keep your tank ammonia-free and sparkling clean.

BIO-Wheel never clogs, never needs replacing, requires virtually no maintenance. And don't be concerned if your BIO-Wheel rotates slowly or irregularly. This is normal. A BIO-Wheel rotating at *any* speed is filtering your water. There is no reason to replace a BIO-Wheel unless it is damaged. If your BIO-Wheel stops completely, consult the Troubleshooting section of this manual.

Always remove your BIO-Wheel before you add any medications. Antibiotics can destroy the good bacteria that filter the water. Keep the BIO-Wheel in a safe place, exposed to air until treatment is complete. Then just reinstall it.

## Replacement Parts List

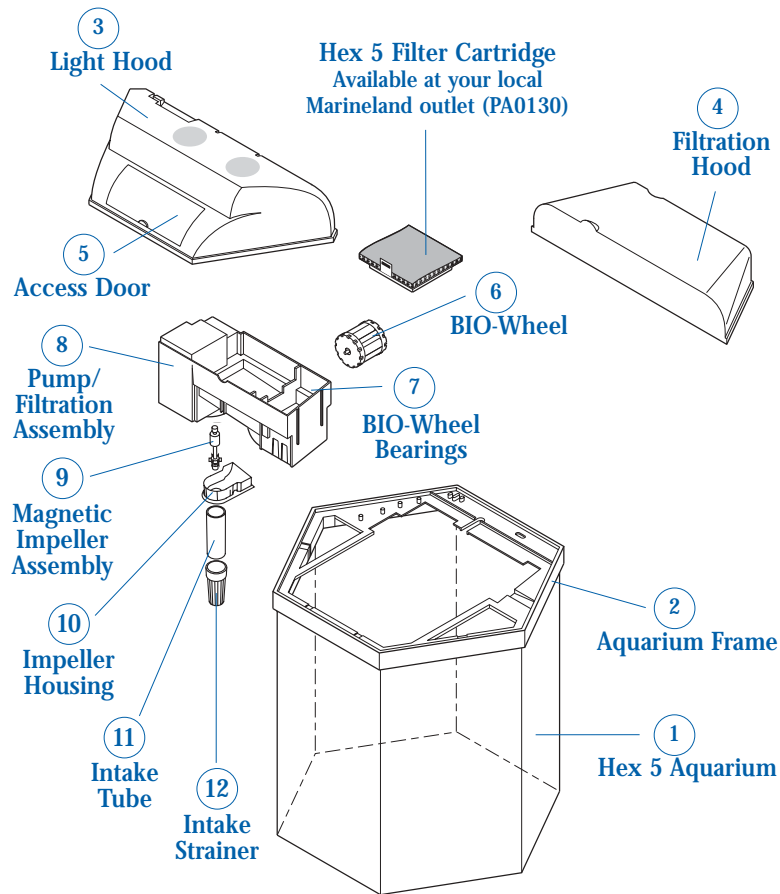
KEY	ITEM DESCRIPTION	ITEM NO.
1	Eclipse Hex 5 Aquarium	PR3500
2	Aquarium Frame	PR3501
3	Light Hood	PR3509
4	Filtration Hood	PR3510
5	Access Door	PR3511
6	BIO-Wheel	PR1932B
7	BIO-Wheel Bearings (Pkg.-2)	PR1910B
8	Pump/Filtration Assembly	PR3340
9	Magnetic Impeller Assembly	PR3342
10	Impeller Housing	PR3341
11	Intake Tube	PR3343
12	Intake Strainer	PR1705

### CUSTOMER SERVICE INFORMATION

For additional assistance or to order parts, you may call Marineland Customer Service at (800) 322-1266 M-F between the hours of 8am and 5pm (Pacific Time). Please have your manual and MasterCard or VISA ready when ordering.

*NOTE: Eclipse Filter Cartridges designed to fit the Hex 5 will also fit the Eclipse Explorer and System Three. These cartridges are not considered replacement parts. They may be purchased at your local Marineland retail outlet. Replacement lamps are not available from Marineland.*

## Parts Diagram & Identification



## Assembly/Operational Instructions

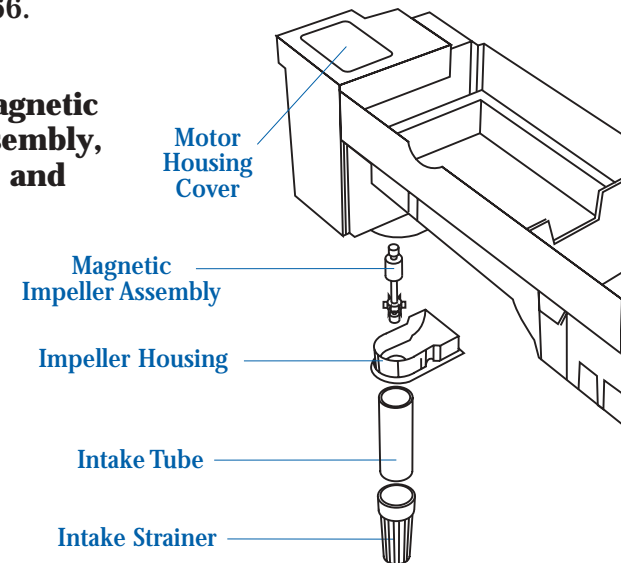
**HANDLE WITH CARE** To prevent scratching, be careful when you handle your Hex 5 or when you add gravel, rocks or decorations. Clean the aquarium surface with a damp terrycloth towel. Never use glass cleaners or abrasives of any kind.

### STEP 1:

**Remove and inspect all parts.** If any are missing or damaged, there is no need to return the entire Hex 5 unit. Replacement parts may be obtained from the store where purchased, or by calling Marineland Customer Service - (800) 322-1266.

### STEP 2:

**Assemble Magnetic Impeller Assembly, Intake Tube, and Strainer.**



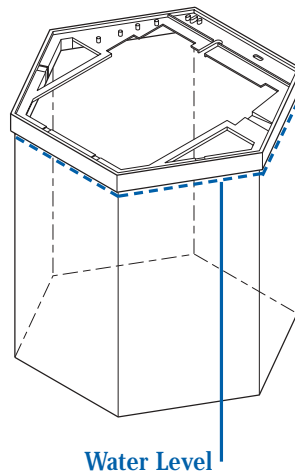
**NOTE:** Be sure **Intake Tube** fits securely into **Impeller Housing** and does not wobble. Do not try to remove the **Pump Motor Housing Cover**.

**STEP 3:**

**Set up your aquarium.**

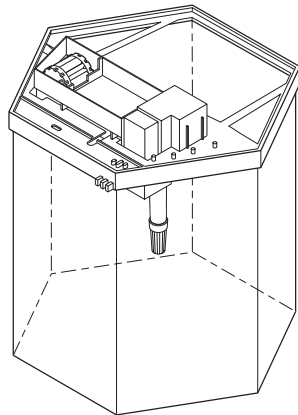
After adding gravel, rock and decorations, fill the Hex 5 with water to just below the level of the **Aquarium Frame**.

*NOTE: Never try to remove the Aquarium Frame when your Hex 5 is full of water. If the frame comes off, press it firmly back into place by starting at one corner and continuing around the edge until the frame is level and secure.*



**STEP 4:**

**Reinstall Filtration Assembly.**

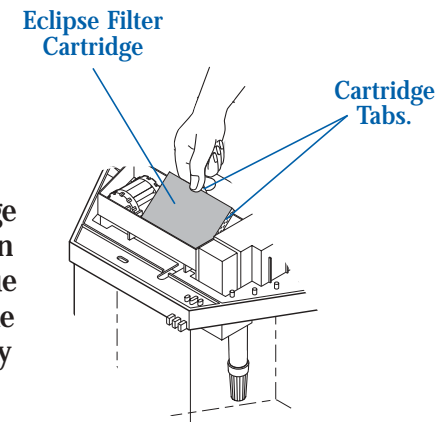


*NOTE: If the Pump/Filtration Assembly is not securely seated, your Eclipse filter will not operate correctly.*

**STEP 5:**

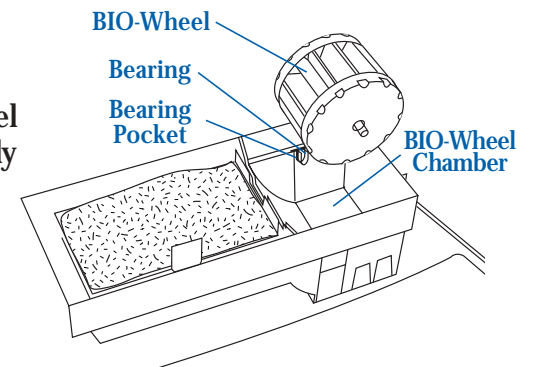
**Install Filter Cartridge.**

Rinse the **Eclipse Filter Cartridge** thoroughly under cold water. Shake the Cartridge to evenly distribute the carbon inside. Install the cartridge blue side up, black side down. Make sure **Cartridge Tabs** fit snugly in position.



**STEP 6:**

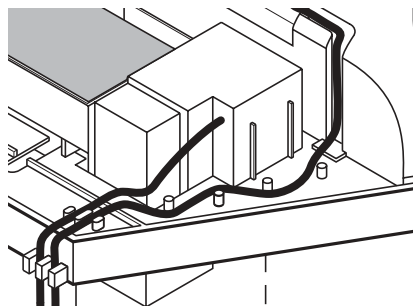
**Inspect BIO-Wheel.** Make sure that **BIO-Wheel Bearings** are seated snugly into **Bearing Pockets** and that the **BIO-Wheel** rotates freely.



**STEP 7:**

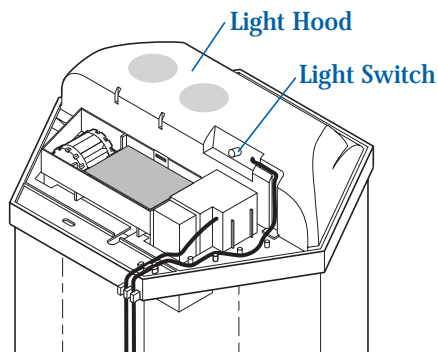
**Add Accessories.**

If you wish to install any optional accessories - like a submersible heater or air stone - this is the best time to do so. There is a slot behind the Pump/Filtration Assembly through which you may rout any accessory cords.



**STEP 8:**

**Replace Light Hood.**

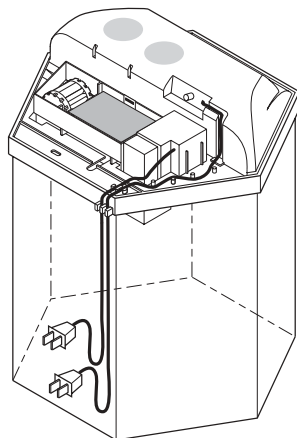


**STEP 9:**

**Rout filtration and lighting power cords.**

**CAUTION**

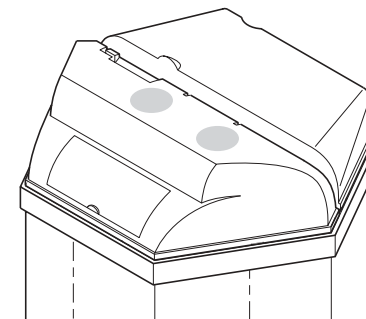
*Be sure to keep power cords out of the water at all times.*



**STEP 10:**

**Replace Filtration Hood.**

**START YOUR SYSTEM!**



**IMPORTANT:** Do not allow the Eclipse Hex 5 to operate without water at any time.

**NOTE:** Use a drip loop (shown on pages 2-3). Never force a plug into a non-polarized receptacle. Adapters are available at most hardware stores.

**CAUTION**

**IF YOU CHOOSE TO USE AN OUTLET STRIP**

Use only one that is properly approved and equipped with fuse or circuit breaker. Place outlet strip away from Hex 5 tank and make sure all receptacles are protected from water splash, spillage or vapor. Frequently check electrical equipment and connections for signs of moisture, greenish corrosion or black sooty residue (arcing). If evident, turn the power off IMMEDIATELY and correct the problem.

## Maintenance

### CAUTION

- NEVER submerge Pump/Filtration Assembly in water.
- NEVER use soaps, detergents, abrasives or any other cleaning agent on or around filter or aquarium.
- ALWAYS take care to avoid scratching aquarium surface - inside *and* out.
- ALWAYS unplug power cords *before* performing maintenance.

BASIC AQUARIUM MAINTENANCE requires the following every 2-4 weeks:

- Change 25% - 30% of your aquarium water. Partial water changes are vital to maintaining a healthy aquarium.
- Clean your aquarium gravel regularly. Use a Marineland Mini Siphon-Kleen Gravel Washer to suction out grunge and debris. You will need to unplug the Eclipse Hex 5 and remove the Light Hood, Filtration Hood and Pump/Filtration Assembly before vacuuming.
- Remove and clean the Magnetic Impeller Assembly and Impeller Housing.
- Replace your Eclipse Filter Cartridge. Make sure the replacement cartridge package reads "Fits Eclipse System Three and Explorer" or "Custom designed for Explorer, Hex 5 and System Three." If the water ever appears cloudy and/or bad smelling, change the cartridge immediately.

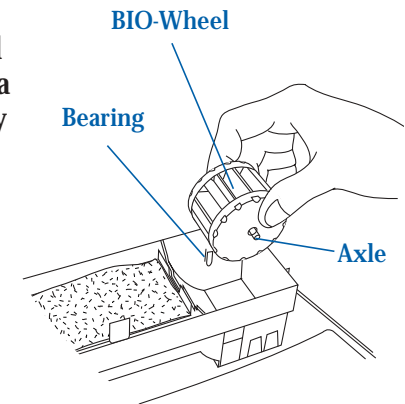
*NOTE: Every time you add water to your Eclipse Hex 5, the water should be treated with a chlorine neutralizer. It's easy to do. Just purchase some at your local pet store and follow the simple usage instructions.*

## Filtration

*To keep your Hex 5 running smoothly, we recommend the following maintenance procedure as needed (at least every month):*

**Before you begin, unplug the Hex 5 and remove its power cord from the Cord Organizer. Then remove the Light Hood and Filtration Hood and set them aside.**

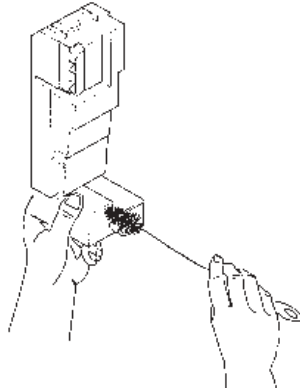
1. Remove the BIO-Wheel. To avoid disturbing the beneficial bacteria culture, handle a BIO-Wheel by the Ends and/or Axle. Gently rinse the BIO-Wheel Bearings with room temperature water and check them for wear. You don't have to remove them. If the Bearings look worn, remove and replace them.



**IMPORTANT: Every BIO-Wheel is preassembled at the factory. Do not try to take yours apart for any reason. Unless a BIO-Wheel is damaged it does not need to be replaced. Never clean your BIO-Wheel. When the pleated part of the BIO-Wheel turns brown, it means that good bacteria are growing and thriving. This is normal.**

**Bacteria eliminate ammonia. The more there are, the cleaner your water. If the BIO-Wheel becomes so heavy with bacteria that it stops moving, you can gently rinse the surface to remove the heaviest buildup. Be sure to use treated (dechlorinated), room temperature tap water only.**

2. Using Lift Tab, remove used Eclipse Filter Cartridge and throw it away.
3. Remove the Magnetic Impeller Assembly, Impeller Housing and Intake Tube from Pump Motor Housing.
4. Clean all parts thoroughly with a brush and rinse with cold water. Look carefully at the Impeller Assembly. Purchase a new part if you find damage or excessive wear. After cleaning, set the Filtration Assembly aside until you're ready to put it back together.



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Do not submerge Pump/Filtration Assembly in water. Do not pour water on top of Motor Housing Cover (near power cord exit). If water gets into motor housing, consult Troubleshooting section immediately.

5. Using cold water and a clean cloth, wipe down inside and outside surface of Filtration Assembly Light Hood and Filtration Hood.
6. Reassemble Filtration Assembly parts. Refer to Parts Diagram (pg. 8) and Assembly Steps 3 and 5. Remember, the Impeller should rotate freely and silently - without wobbling or “sticking.”

7. Rinse a new Eclipse Filter Cartridge thoroughly and install it.  
*NOTE: Use only a genuine Eclipse Filter Cartridge that is custom designed for the Eclipse Hex 5. Substitutions often contain lower grades and/or quantities of carbon and may not fit properly. This can result in reduced filtration effectiveness.*
8. Reinstall Pump/Filtration Assembly.
9. Replace the Light Hood and Filtration Hood. Route power cords. Restart your filter. Make sure water is flowing and the BIO-Wheel is turning.

## Lighting

Illumination is provided by a 15-watt incandescent lamp with a molded moisture-resistant collar that prevents corrosion at the socket. Contact your dealer to obtain a replacement lamp.  
*NOTE: When replacing lamp, use only tubular incandescent lamps designated “15 watt” or “25 watt” (maximum).*

**CAUTION:** Handle Light Hood with dry hands only. Do not allow any water to seep into Hood Vents - electrical damage may result. **DRY UNDERSIDE OF HOOD BEFORE PERFORMING ANY MAINTENANCE OR REPLACEMENT.**

### To change lamp:

Unplug all power cords. NEVER change lamp while power is on. Allow lamp to cool for 2-3 minutes before continuing. Carefully unscrew old lamp, remove from socket and replace with new lamp.

# Troubleshooting Guidelines

**IMPORTANT:**

*Always unplug the Eclipse Hex 5 when inspecting or disassembling for any reason.*

SYMPTOM	COMMENTS/SOLUTION
If your system does not start (or stops) pumping water...	<p><i>Make certain</i> the outlet has power and is functioning properly.</p> <p>Check aquarium water level (recommended fill level - Step 5, pg. 10).</p> <p>Make sure the Intake Tube and Strainer are not clogged.</p> <p>Remove the Magnetic Impeller Assembly. Check for wear and/or blockage.</p>
If your system makes mechanical noise...	<p>Remove the Intake Flow Diffuser and Magnetic Impeller Assembly. Make sure the Magnetic Impeller Assembly is unobstructed and free to rotate.</p> <p>Replace the Magnetic Impeller Assembly if it looks worn or damaged. (Refer to your manuals parts list for the part number.)</p>
If BIO-Wheel splashes and/or makes excessive water noise...	<p>Allow 24-28 hours for a “breaking in” period. The material in a new BIO-Wheel wets slowly. The BIO-Wheel will turn faster and may splash until it becomes saturated with water.</p> <p>Check the aquarium water level. If level is too low, water will make more noise as it fall into the tank.</p>

SYMPTOM	COMMENTS/SOLUTION
If your aquarium water becomes cloudy or smells bad...	<p><i>Change</i> your Eclipse Filter Cartridge immediately. <i>Perform</i> a 25-30% water change.</p>
If BIO-Wheel seems to stop...	<p><i>Don't Panic.</i> Chances are, the wheel is not permanently stopped. As long as the wheel continues to move occasionally and stays wet, it is functioning properly.</p>
If BIO-Wheel stops and doesn't move at all...	<p><i>Inspect</i> the BIO-Wheel Bearings and Axle for dirt or mineral deposits. You may need to clean these areas carefully.</p> <p>Make sure all parts are installed properly and that nothing is blocking the BIO-Wheel.</p> <p>Examine the Intake Tube for flow interference.</p> <p>Lift the Eclipse Filter Cartridge and check for blockage.</p> <p>Perform regular filter maintenance.</p>
If BIO-Wheel starts to look “dirty”...	<p>This is not a problem. Don't try to clean the BIO-Wheel pleats.</p>
If water gets into Motor Housing...	<p>Shake water out at the power cord exit.</p>

**Marineland Customer Service:**

**(800) 322-1266**

**M-F, 8<sup>AM</sup> - 5<sup>PM</sup> (Pacific Time)**