SandPRO™ 50 & 75 POOL FILTER SYSTEMS OWNER'S MANUAL

MODELS 4510 AND 4511

IMPORTANT SAFETY RULES

Read all instructions BEFORE assembling and using this product. KEEP THIS MANUAL.



MODEL 4510 MODEL 4511

Sand not included. USE ONLY No. 20 Silica Sand with a particle size of 0.45 mm — 0.55 mm

IMPORTANT DO NOT RETURN PRODUCT TO STORE

For technical assistance and missing parts, call Customer Service toll-free

1.888.339.2546

(press 135 at any time)

Monday through Friday, 8:00 am to 5:00 pm MST

Please visit our website, www.game-group.com, for potential updates to these instructions.



Your Pool Filter System has been engineered and manufactured to our highest standard for dependability, ease of operation and safety. With proper care, it will give you years of durable, trouble-free performance.

Thank you for your purchase.

PRIOR TO ASSEMBLING AND USING THIS PRODUCT, CAREFULLY READ AND ADHERE TO ALL CAUTION AND IMPORTANT NOTICES LOCATED THROUGHOUT THIS MANUAL. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY DAMAGE TO THE PRODUCT OR CAUSE SERIOUS PERSONAL INJURY OR DEATH.

In this manual, some of the following callouts may be used. Please pay special attention to these.

CAUTION, IMPORTANT and STOP have the following meanings:

CAUTION

Used when injury or accidents may occur if the operating instructions, work instructions, work procedures, etc.

are either NOT strictly adhered to or not carried out at all.

IMPORTANT

Used when damage to the device may occur if the operating instructions, work instructions, work procedures, etc.

are either NOT strictly adhered to or not carried out at all.

STOP

Calls attention to special details or information.

IMPORTANT DO NOT RETURN PRODUCT TO STORE

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TABLE OF CONTENTS

1.	Safety Warnings
2.	General Information
	How Sand Filtration Works
	Powering the Filter Pump5
	Sand & Initial Preparation
	Installation
3.	Technical Specifications
4.	Parts List/Reference
5.	Getting Started
	Unpacking Your Filter System
	Tools & Equipment Required
	Know Your Pool
	Filter Location
	Power Source Requirements
6.	Assembly Instructions
	Water Pump Assembly
	Filter Tank Assembly
7.	Connecting the Filter System
	For pools with 1¼" or 1½" Diameter Unthreaded Hose
	For pools with 2¼" Diameter Threaded Hose Connectors
8.	Valve Operations
	Filter Valve Settings & Functions
	Changing Valve Positions
9.	Filter Operations
	Start Up
	Cleaning Sand
	Backwash Process
	Backwash Do's & Don't's
10.	Maintenance
	Adding Sand
	Cleaning the Hair & Lint Filter
	Winterizing the System
	Safety Notes
11.	Troubleshooting
	Limited Warranty Statement
13.	Appendix: Exploded parts diagram

3

SAVE THESE INSTRUCTIONS

READ ALL WARNINGS BELOW. FAILURE TO DO SO COULD RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

- RISK OF SUCTION ENTRAPMENT HAZARD, WHICH, IF NOT AVOIDED CAN RESULT IN SERIOUS INJURY
 OR DEATH.
- Do not block pump suction at the pump or in the pool as this can cause severe injury or death.
- Electrical wiring MUST be installed by a trained professional and adhere to local code and regulations.
- Avoid electric shock. DO NOT USE power extension cords.
- Connect ONLY to a Ground-Fault Circuit Interrupter (GFCI) power outlet. Consult a qualified, professional electrician for safe and proper installation of the required electrical outlet.
- Incorrectly installed equipment may fail, causing severe injuries or damage to the pump-filter system.
- Never place or submerge the filter and/or pump in water.
- Trapped air in the pump-filter system may cause the tank cover to be blown off which can result in death, serious injury, or damage to the pump-filter system. Ensure all air is out of system before operating.
- NEVER use the valve lever as a handle to carry or lift the filter.
- NEVER change the position of the Multi-Port Valve while the system is operating. ALWAYS unplug the system first.
- Install this product at least 10 feet away from the pool to prevent children from using the system to access the pool.
- Never PLUG or UNPLUG this unit from an electrical source while standing in water or with wet hands.
- NEVER service this unit with the electrical power cord connected.
- Do not use any petroleum based lubricant. Petroleum based products will destroy plastic parts.
- Do NOT operate the system while the pool is in use.
- KEEP CHILDREN AWAY from all electrical equipment.
- NEVER ALLOW CHILDREN TO OPERATE THIS EQUIPMENT.

THESE SAFETY WARNINGS ARE NOT INTENDED TO INCORPORATE ALL POSSIBLE INSTANCES FOR RISK AND/OR SEVERE INJURY.

2. GENERAL INFORMATION

This manual provides information relating to the installation, utilization and maintenance of the Pool Filter System. The pump included with the filtration system is a horizontal, self-priming centrifugal pump. For the pump to function correctly, the water temperature must not exceed 95°F/35°C. The filter included in the filtration system is equipped with a container drainage system, pressure gauge and built-in container components. The filter container comes ready to plug-in and is supplied with a user-friendly 7 Position Multi-Port Valve integrated into the tank cover, an approved filter pump with hair and lint basket, and a plastic base for ready on-site mounting.

How Sand Filtration Works

The Pool Filter System is designed to use special silica sand to remove dirt particles from pool water. Filter sand is loaded into the filter tank and functions as a permanent dirt and debris removing medium. Pool water, which contains dirt particles, is pumped through the intake hose leading from the pool to the filter tank and is directed by the filter control valve to the top of the filter tank. As water is pumped through the filter sand, dirt particles are trapped by the bed of sand and filtered out. The cleaned/filtered water is then returned from the bottom of the filter tank, through the control valve and back to the pool through the return hose. This sequence is continuous and automatic and provides total recirculation of pool water through your filter and hose connections.

After a period of time, the accumulated dirt in the filter causes a resistance to the flow of water and an increase in pump pressure (psi). When this happens, it is time to clean (backwash) the filter. To backwash the system, you must change the valve to the backwash position. When in backwash mode, the water flow is automatically reversed through the filter so that it is directed to the bottom of the tank, up through the sand, which flushes any trapped dirt and debris out through the waste line. Once the filter is backwashed and cleaned of dirt, the control valve should be moved into the rinse position to allow the sand to settle. After rinsing, the filter valve should be changed back to the filtration position to resume normal filtering.

Powering The Filter Pump

It should be noted that the Pool Filter System does not have an on/off switch. Rather, power to the filter pump is connected and disconnected by means of plugging in and unplugging the power cord from the power source. It is important that you read and follow the instructions on proper power supply sources (see Section 5, Power Source Requirements) to avoid overloading the pump motor and/or electric shock.

Sand & Initial Preparation

The Pool Filter System requires a specific type of sand (not included) for optimum operation: namely, Number 20 Silica Sand with a particle size of 0.45 mm - 0.55 mm. You can purchase this sand at most pool supply stores. While the sand will come packaged, it is important that the sand be cleaned prior to running the filter system in filtration mode (see Section 9, Filter Operations).

Installation

Read and understand this manual carefully before installation. Failure to follow all instructions may result in electric shock, serious personal injury or death.

3. TECHNICAL SPECIFICATIONS

Model 4510 (1/2 Horsepower Model)				
ltem	U.S. Units	Metric Units		
Flow Rate	2,375 GPH	9 m³/hr		
MAX Operating Pressure	22 psi	1.5 Bar		
Filtration Area	1.4 ft ²	0.13 m ²		
Rated Voltage	110 VAC	110 VAC		
Sand Volume	38 lbs	17 kg		

Model 4511 (3/4 Horsepower Model)

Item	U.S. Units	Metric Units
Flow Rate	2,650 GPH	10 m³/hr
MAX Operating Pressure	22 psi	1.5 Bar
Filtration Area	1.4 ft ²	0.13 m ²
Rated Voltage	110 VAC	110 VAC
Sand Volume	76 lbs	34 kg

PARTS LIST/REFERENCE

Before starting installation, check to make sure all parts are present in package.

Primary Components

BASE PLATE (1)

WATER PUMP (1)

FILTER TANK (1)







TANK COVER / VALVE ASSEMBLY (1)

TANK COVER LOCK RING ASSEMBLY (1)

FILTER-PUMP HOSE







(Model 4510 has threaded end)

TANK SEPARATOR PLATE (1)







OWNER'S MANUAL

Parts Bag A

1 1/4"-1 1/2" HOSE CONNECTOR - 4510 (1) 4511 (2)

O-RING A (1) 2 1/2" Dia

O-RING B (1) 3.0" Dia







O-RING C (1) 1 1/2" Dia

HAIR & LINT STRAINER COVER (1)





Parts Bag B

SHORT INTEX® CONNECTOR (1)

LONG INTEX® CONNECTOR (1)

PUMP MOUNTING HARDWARE







HOSE CLAMP (2)



FLAT GASKET (2)



Note: Some parts may be pre-installed at the factory. Parts not shown to scale.

5. GETTING STARTED

Unpacking Your Filter System

This product requires assembly.

Carefully remove the product and all parts. Make sure all items listed in the Parts List/Reference are included. Please note that some parts may be pre-assembled.

Inspect everything carefully to make sure nothing is damaged.

Do not discard packing material until you have satisfactorily operated the product.

If any parts are missing or damaged, please call the number listed on the front page of this manual.

NOTE: Some parts may be located within the filter tank. To access these parts you must remove the tank cover.

Refer to Appendix for a complete EXPLODED VIEW PARTS DIAGRAM

Tools & Equipment Required

The following items are not included with your new filter system, but will be required for proper installation and operation:

- ¼" Blade Screwdriver
- #2 Phillips Screwdriver
- Rubber Mallet
- A small container of silicone based lubricant
- G.F.C.I. (Ground Fault Circuit Interrupter) Must be installed by a certified electrician
- One 1½" backwash hose

IMPORTANT

No. 20 Silica Sand (Model 4510 requires 38 lbs of sand; Model 4511 requires 76 lbs of sand.)

The above equipment list is based on the assumption that your above-ground pool is assembled, filled with water, and that your pool is equipped with the necessary filtration hoses needed to operate with a filter (cartridge or otherwise). If your pool is not assembled, please refer to the pool's installation manual for details. If you do not have hoses for your pool's intake and return, you will need to purchase the hoses from a pool supply store.

This Pool Filter System is designed to connect to pools with standard 1½" or 1½" diameter hose connectors and has 2¼" hose adapters for INTEX® pools. If your pool has a hose connector with a different size and/or type, you may need to purchase an adapter at your local pool supply store or hardware retailer.

Know Your Pool

Before you begin installation, it is a good idea to know certain specifications of your pool:

- How big is your pool?
- How many gallons does it hold?
- What size hose does it use? (i.e. 1¼" dia, 1½" dia or 2¼" dia)
- What kind of hose connection does it use? (i.e. threaded/unthreaded)

Filter Location

The Pool Filter System needs to be located on a 2'x 3' completely level, hard surface lower than the pool's water level and away from the pool to prenvent access to children. The hard surface may be made of concrete, gravel, patio pavers, etc.

Power Source Requirements

The Pool Filter System is equipped with a US standard electrical cord and plug which should only be connected to a power outlet protected by a qualified Ground-Fault Circuit Interrupter (GFCI) that has been installed by a professional electrician and adheres to local codes and regulations. To AVOID electric shock, serious personal injury or death, power cord extensions should NOT BE USED. DO NOT handle power cords or equipment with wet hands or while standing in water or while wet.

6. ASSEMBLY INSTRUCTIONS

Water Pump Assembly

- 1. Secure the water pump to the base plate with the provided pump mounting hardware as shown in illustration to the right.
- 2. Screw the 1¼"-1½" hose connector into the center port of the water pump. Ensure that O-Ring A (2¼" dia) is installed between the port and the connector.

NOTE: If your system came with a threaded filter-pump hose (Model 4510), you will not need the $1\frac{1}{4}$ " – $1\frac{1}{2}$ " hose connector. Instead, screw the hose into the center port of the water pump directly with O-Ring ($2\frac{1}{4}$ " dia) in between.

- 3. Remove the threaded ring (collar) on the outer opening of the pump.
- 4. Place O-Ring B (3" dia) in the groove around the hair and lint strainer basket.
- 5. Place the transparent hair & lint strainer cover in place and then screw the threaded ring (collar) back on securely over the cover.
- 6. Insert O-Ring C (11/2" dia) inside the outward facing opening of the transparent hair & lint strainer cover.
- 7. Place the base plate and pump in your selected site where the Pool Filter System will be located for normal operation. This site should be within the reach of the pool filter and return hoses but no closer than 10 feet to the pool (see Section 1, Safety Warnings).



- 1. Place the filter tank on the base plate as shown. The feet on the bottom of the filter tank fit within the holes provided on the base plate.
- 2. Insert the tank separator plate inside the main tank in the guides provided. The plate divides the tank into two compartments, the Filtered Water Chamber and the Sand Filter Chamber.
- 3. Filling Sand Chamber with Sand

Note: The filter pump assembly should be in its permanent location before filling the chamber with sand. Otherwise, the unit will be heavy and difficult to move around.

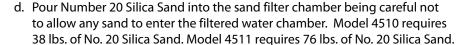
- a. Check to ensure that the bottom strainer is correctly positioned.
- b. Check to ensure that the tank separator plate is seated properly.
- c. Fill the sand chamber half full with water.

CAUTION

Use breathing filter/mask approved for dust & sand and adequate eye protection while filling the tank. Avoid breathing dust.

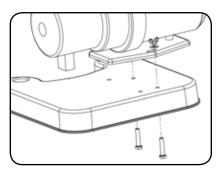
IMPORTANT

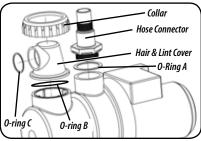
To prevent damage to the container and the bottom strainer, fill the tank halfway with water before adding the filter sand.

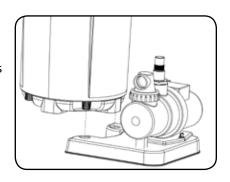


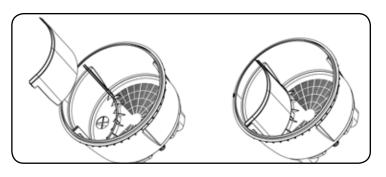
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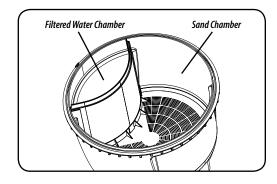
It is important to ensure that sand does not exceed the recommended quantity/weight.







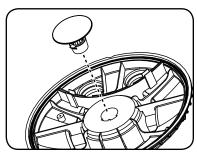


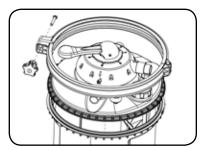


4. Securing Filter Assembly

- a. Ensure the main tank seal around the top of the filter tank is in good condition and securely seated in the groove. Be sure groove is free of sand and seal is properly lubricated.
- b. Locate the upper distributor and press it into the center hole located under the tank cover.
- c. Carefully place the tank cover onto the filter tank. The tank cover should be oriented so that the notch on the cover is aligned with the matching tab on the filter tank this ensures proper alignment.
- d. To secure the tank cover and filter tank, use the tank cover lock ring assembly. **Make** certain that the head of the hinge pin is facing up on the ring assembly. Align the bolt with the receiving hole and squeeze the gap closed as far as you can. When tight, the gap between the clamp halves at the tightening screw should be approximately 1/16" to 1/4".

NOTE: Using a rubber mallet to lightly tap the ring during assembly eases the installation and promotes a better seal. DO NOT use a hammer or other hard striking implement on the lock ring as damage may result.

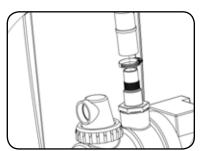




5. Hooking Up the Hoses

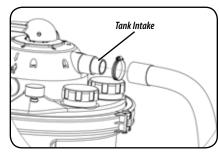
- a. Attach the filter-pump hose to the $1\frac{1}{4}$ " hose connector on the water pump.
- b. Secure with a hose clamp.

NOTE: If your system came with a threaded filter-pump hose (Model 4510), you will not need the $1\frac{1}{4}$ " – $1\frac{1}{2}$ " hose connector. Rather screw the hose into the center port of the water pump directly with o-ring "A" in between.



6. Connecting Filter Hose to the Tank

- a. Place a hose clamp (do not tighten) on the loose end of the filter-pump hose and connect to the tank intake port on the tank cover.
- b. Tighten hose clamp.

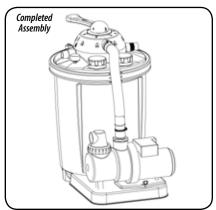


7. Completed Assembly

The basic Filter-to-Pump Assembly should resemble the figure shown at right.

CAUTION

Ensure ALL hose connections are tight and the hoses are NOT kinked or bent at severe angles. If the hoses are leaking, check to make sure ALL of the parts that have O-Rings have them attached and are screwed on tightly. DO NOT over tighten hose clamps (35 in/lb max torque)



7. CONNECTING THE FILTER SYSTEM

The next section outlines installation instructions for connecting the Pool Filter System to your pool. Since the hoses utilized for filtration and return lines differ for various types of above-ground pools, the pool-filter connection section is broken down by pool hose size and type. For pools with 1½" or 1½" diameter unthreaded hoses, see "A" below. For pools with 2¼" threaded hose connectors, see "B" on following page.

STOP

Before you begin to connect hoses to the filter and pump, make certain that no water can flow through the intake or return hoses connected to the pool. Some pools have shut off valves in their intake and return ports, others do not. If you do not have a shut off valve, block the ports with a removable plug to prevent water from passing into and through the hoses.

A. For Pools with 1¼" or 1½ "Diameter Unthreaded Hoses

These instructions assume that the pool is already assembled with hoses attached to the water intake and return ports on the pool.

- 1. Adapter Installation
 - a. Screw the $1\frac{1}{4}$ " $1\frac{1}{2}$ " hose connector into the transparent hair & lint strainer cover. Make certain that O-Ring C ($1\frac{1}{2}$ " dia) is in place before securing.
- 2. Pool "Skimmer Hose" Attachment
 - a. Attach the hose coming from your pool's skimmer (outlet of pool) to the $1\frac{1}{4}$ " $1\frac{1}{2}$ " hose connector extending from the hair & lint strainer cover.
 - b. Secure with a hose clamp.
- 3. Pool "Return Hose" Attachment
 - a. Attach the pool return hose (inlet of pool) to the pool return port on the tank cover.

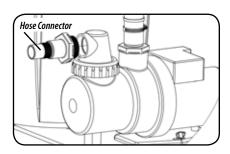
Note: Be sure not to secure the return hose to the waste/backwash port.

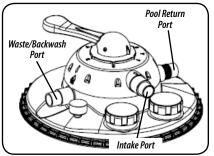
c. Secure with a hose clamp.

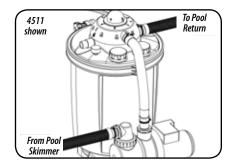
IMPORTANT

Ensure that all HOSE connections are tight and that the hoses are NOT kinked or bent at severe angles.

4. Completed Filter-Pump Installation should resemble the figure shown at right.



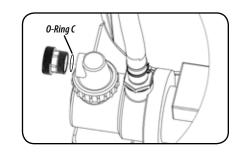




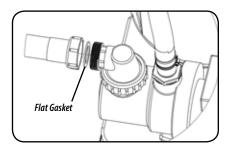
B. For Pools with 21/4" Diameter Threaded Hose Connectors

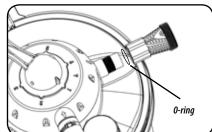
These instructions assume that the pool is already assembled with hoses attached to the water intake and return ports on the pool.

- 1. Short INTEX® Adapter Installation
 - a. Screw the short INTEX® adapter into the transparent hair & lint strainer cover on the water pump.
 - b. Make certain that O-Ring C (11/2" dia) is in place before securing.



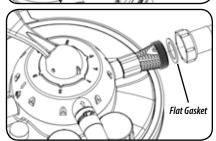
- 2. Pool "Skimmer Hose" Attachment
 - a. Attach the pool skimmer hose (outlet of pool) to the short INTEX® adapter.
 - b. Ensure that the flat gasket is installed between the short adapter and the face of the hose.
- 3. Long INTEX® Adapter Installation
 - a. Verify there is a O-Ring inside of the adapter. If not, insert O-Ring.
 - b. Screw the long INTEX® adapter onto the pool return port on the tank cover.





- 4. Pool Return Hose Attachment
 - a. Screw the pool return hose (inlet of pool) to the long INTEX® adapter on the tank cover.
 - b. Ensure that the flat gasket is inserted between the adapter and the face of the hose.

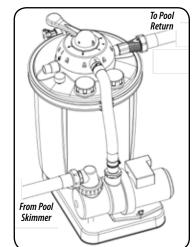
Note: Be careful not to secure return hose to the waste/backwash port.



IMPORTANT

Ensure that all hose connections are tight and that the hoses are NOT kinked or bent at severe angles.

5. Completed Filter-Pump Installation should resemble the figure shown at right.



CAUTION

Do not power pump at this point.

8. VALVE OPERATIONS

Make yourself familiar with your filter system's valve settings and functions.

Filter Valve Settings & Functions

Setting	Complete Water Flow/Function	Valve Diagram
Filtration Position 1	Function: Vacuum, regular pool filter action. This is the setting the filter will be set to most of the time. In this position, water is directed through the top of the filter where it compresses and flattens down the sand. Contaminants are trapped by the sand as water makes it way to the bottom strainer, out of the filter and back to the pool.	
Rinse Position 2	Function: Use after backwashing to clean and resettle filter bed. This should always be done immediately after backwashing, new sand addition or filter start-up. In this position, water is directed to the top of the tank where it reseats the sand and flushes the valve while sending water out the waste line. This reduces the chance of contaminant blow back to the pool when the valve is moved back to the filtration position after backwashing.	2
Circulation Position 3	Function: circulate water after chemical treatment. This position is used during certain pool cleanups and chemical treatments when you don't want the water contaminating the sand. In this position, water is only directed through the valve back to the pool and does not filter through the sand.	3
Backwash Position 4	Function: clean filter of captured debris. This is the position needed to clean the filter and sand. You'll know it is time to backwash when the pressure gauge rises 5 to 10 psi above what it normally reads when the filter is clean. In this position, water is directed through the bottom strainer, reversing the flow through the tank. This causes the sand to separate and lift while releasing trapped debris out the waste line.	

Closed Position 5	Function: Cleaning the hair and lint strainer. This position stops the flow of water into the pump and filter. CAUTION: Do not run pump with valve in this position.	
Purge/ Drain Position 6	Function: bypass the filter. This position is ideal for vacuuming pools with large amounts of debris or after an algae treatment. In this position, water bypasses the filter and sends all the water and contaminates out the waste line. CAUTION: Running the pump in this position will drain water from your pool. Observe water level to prevent running the pump dry.	
Winterize Position 7	Function: winterizing and storage. In this position, the valve lever is between positions which removes pressure from internal valve components for winter (off-season) storage. CAUTION: Do not run pump with valve in this position.	

Changing Valve Positions

The 7 Position Multi-Port Valve is designed to give the required flow rate for each action that is described above. Always make sure the power source to the filter is unplugged before changing valve positions. In other words, the pump should not be running when you change valve settings (i.e. moving from Filtration position to the Backwash position). Changing valve positions while the pump is running could result in irreparable damage to the valve and its inner workings. To change valve positions, press down firmly on the valve lever and rotate to the desired setting.

	IMPORTANT
	ALWAYS unplug power source to pump before changing valve positions.
Changing valve p	ositions while the pump is running could result in irreparable damage to the valve and its inner workings.
	CAUTION

9. FILTER OPERATIONS

Start Up

Once the filter system has been properly assembled, the sand chamber filled with sand and the hoses connected, you may begin with filtration. However, we recommend that you clean and prepare the new sand that is in the sand chamber first. Cleaning the sand prior to filtering your pool will remove most of the dust and tiny sand particles that may exist in the sand. If you move straight to filtering, these particles will end up in your pool. To clean the sand, please follow the instructions below.

Cleaning Sand

- 1. Make certain the pump is not plugged in to a power supply.
- 2. Start with the valve in the "5" Closed" position.
- 3. If you haven't done so already, fill your pool with water. Ensure that the water level is at least 1 2 inches above the top of the hose intake and return ports in the pool.
- 4. Release the shut off valve at the intake port in the pool. If you plugged the intake port, remove the plug to allow the water to flow into the intake hose.
- 5. With the filter-pump system installed in a location level lower than your pool's water level water will automatically flow into the pump-filter system.
- 6. Allow the filter tank to fill with water.
- 7. Check for leaks and make any necessary adjustments.
- 8. Follow the backwash process below.

Backwash Process

- 1. Disconnect the motor/pump from the power source.
- 2. Attach backwash hose (not included) to backwash port.
- 3. Place the multi-port valve in the "4 Backwash" position.
- 4. Reconnect to power source.
- 5. Run filter in backwash mode until discharge water is clear.
- 6. Disconnect the motor/pump from the power source.
- 7. Place the multi-port valve in the "2 Rinse" position.

CAUTION

See Section 5, Power Source Requirements

- 8. Reconnect to power source.
- 9. Allow filter to run for 60 seconds to remove any remaining residue from pump and valve.
- 10. Disconnect the motor/pump from the power source.
- 11. Place the multi-port valve in the "1 Filtration" position.
- 12. Reconnect to power source.

Your filtration system is running and ready for further operation.

NOTE: When the filter pump is properly connected to the power supply, the pump will begin to push the water through the bed of sand and out the backwash hose. In this process, water will be drained from your pool as it cleans the bed of sand within the tank. You may want to put a garden hose in the pool to add water in while the pump is pulling water out so that the water level does not go below the intake return ports. While the sand is being cleaned, run your fingers through the water exiting the backwash hose. When you can no longer feel or see sandy grit in the water, the sand cleaning process should be complete.

Backwash Do's and Don't's

Be aware and make note of the filter pressure when the sand is clean. Backwash when you see an increase of 5 – 10 psi on the pressure gauge.

- Do backwash long enough to get the job done right. Let the system backwash until the water exiting the waste line is clear. Note that backwashing can remove 50 -300 gallons of water from your pool so pay attention. Also, be aware of local codes regarding pool water disposal as some communities outlaw drainage.
- Don't backwash excessively. Sand filters operate more efficiently during mid-cycle. Some level of debris in the sand bed actually helps filtration and makes the filter more effective. Too much backwashing will reduce efficiency.
- Don't vacuum the pool in backwash mode. You can plug up the strainer at the bottom of the filter which will result in inefficient operation. Plus you may have to remove all of the sand to get it unclogged.

10. MAINTENANCE

The chart below outlines the recommended maintenance schedule for your Pool Filter System.

Intervals	Maintenance Items		
Weekly	Backwashing, regardless of the pressure or how dirty the filter might be		
	Cleaning of the Debris/Lint filter in the pump hair and lint strainer (directions below)		
Annually	Winterize the system before the first frost (directions below)		
	Add sand at the beginning of each swim season as necessary		

Adding New Sand

CAUTION

Use breathing filter/mask approved for dust & sand and adequate eye protection while filling sand container. Avoid breathing dust.

- Protect the bottom strainer by filling the tank with a foot of water and covering the clean water chamber to avoid getting sand inside.
- Start filter in rinse mode for 1 3 minutes after initial start up or after adding new sand. By doing this you can avoid blowing small particles and impurities from the new sand into your pool. If some debris from the new sand does go into your pool, vacuum it up with the system in purge mode, otherwise you may keep sending it back to the pool.

CAUTION

Before loosening any threaded connections on the filtration system, be sure that the intake and return hoses are closed or plugged to prevent water flow over the motor.

Cleaning the Hair and Lint Filter

- 1. Unplug the pump from the power source.
- 2. Close the shutoff valves or block the water flow at the pool inlet port.
- 3. Place valve in the "5 Closed" position.
- 4. Remove the hair & lint strainer cover on the pump by unscrewing the threaded collar. Take out the strainer basket, clean it, and replace it. Replace the hair & lint strainer cover and tighten the threaded collar. DO NOT OVER TIGHTEN.
- 5. Open the shutoff valves or unblock the water flow at the pool inlet port.
- 6. Place valve in the "1 Filtration" position.
- 7. Reconnect to power source.

IMPORTANT

NEVER operate the pump without the hair and lint strainer basket in place — this can cause damage to the motor and pump assembly.

Winterizing the System

- 1. Unplug the pump from the power source.
- 2. Close the shut off valves or block the flow of water at the pool inlet and return ports.
- 3. Disconnect the filtration system from the pool, drain the tank and hoses.
- 4. Place the handle on the central valve in position "7- Winterize" to relieve the tension on the spring and internal valve components.
- 5. Store the filter system in a location protected from frost and freezing temperatures.

Safety Notes

If there is any indication that safe operation is no longer possible, the device is to be disconnected from the power supply and secured against accidental use.

This is the case when:

- The device has visible damage
- · The device no longer appears functional
- After long periods of storage in poor conditions
- Electrical components, cords, etc appear frayed, worn or broken
- · Guards or shields are missing or broken

11. TROUBLESHOOTING

Problem	Cause	Solution		
Pressure gauge has reading over 15 psi	Dirty filter bed	Backwash the filter (position 4)		
Pressure is too low	Hair and lint strainer basket is dirty	Clean the hair and lint strainer		
Air in the pump	Poor seal on the intake side of the pump.	Tighten hose clamps and connecting fittings.		
Water flows into the drainpipe	Dirt around the seal of the Central Valve	Unscrew the central valve from tank cover and clean the seal		
Leaking filter	Faulty Seal	Check the seal, replace if needed		
	Clamp not tight	Tighten clamp. DO NOT over tighten hose clamps (35 in/lb max torque).		
Pump does not	Not plugged in	Check the socket and power cord		
run	G.F.C.I/ or main circuit breaker tripped	Switch on the breaker (if it is immediately tripped again, there is a defect in pump or controls)		
	Faulty P ump Motor	Replace the pump/motor assembly		
Sand in Pool	If the sand is newly replaced, the undersized grains are still present	Backwash several times until the backwash water is clear (position 4)		
	Sand in central valve (from backwash)	Purge into drainpipe for 30 seconds (position 6)		
	Separation wall in filter is improperly installed	Check the separation wall for proper positioning		
	Filter bottom strainer is damaged	Replace the filter bottom strainer		
Air in system	Water level low or system recently opened for service.	While pump is running, loosen, but do not remove, one of the screw-on transparent covers on the filter tank to allow any trapped air to escape. Tighten the cover once all of the air has escaped.		

STOP			
Repairs on the pump should only be performed by professionally			
trained, qualified technicians.			

12. LIMITED WARRANTY STATEMENT

The manufacturer warranties safe operation and reliability only under the following conditions:

The filter system is installed and operated according to the assembly and operating instructions.

Only original replacement parts are used.

Consumable parts do NOT fall under the warranty

Expendable parts do NOT fall under the warranty. These include:

- All O-rings (40x5 mm O-ring for tank cover, 105x5 mm O-ring for pump cover, 58x6 mm O-ring for housing, 50x3 mm O-rings for hose connections, 6x2 mm O-rings for screws)
- Pressure Gauge
 Hair & Lint Strainer Basket
- Mechanical Seal, Complete
 Filter-to-Pump Hose

General Terms

This Limited Warranty applies to the enclosed product (the "Product") distributed by Great American Duck Races, Inc., an Arizona corporation (doing business as Great American Merchandising and Events) ("GAME").

GAME warrants that the Product will be free from defects in materials and workmanship under normal use for a period of ninety (90) days from the date of purchase. (Your dated sales or delivery receipt, showing the date of your Product purchase, is your proof of the purchase date.) During the warranty period, GAME will repair or replace any defective parts at no charge.

All defective parts that are replaced by GAME will be replaced, at GAME's discretion, with either new parts or used parts that meet or exceed performance specifications for new parts. All parts removed from the Product under this warranty will become the property of GAME. Repair or replacement of any parts will not serve to extend the ninety (90) day warranty period.

This Limited Warranty does not apply to expendable parts. This Limited Warranty does not extend to any product (a) from which the serial number has been removed or (b) that has been damaged or rendered defective (i) as a result of accident, misuse, abuse or other external causes; (ii) by operation outside the usage parameters stated in the manual that shipped with the Product; (iii) by the use of parts not manufactured or sold by GAME; or (iv) by modification or service by anyone other than GAME or an authorized GAME distributor.

If a defect is identified within the warranty period, please contact GAME.

EXCEPT FOR THE LIMITED WARRANTY SET FORTH ABOVE, GAME EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, ORAL OR STATUTORY (INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE). ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY LAW ARE LIMITED TO THE TERMS OF THE ABOVE LIMITED WARRANTY.

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TO OBTAIN WARRANTY SERVICE, PLEASE CALL, WRITE, OR EMAIL US DIRECTLY AT THE ADDRESS SHOWN BELOW.

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Severability

Any provision of this Limited Warranty which is prohibited or unenforceable in any jurisdiction will, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining portions hereof or affecting the validity or enforceability of such provision in any other jurisdiction.

Venue and Choice of Law

This Limited Warranty is applicable in all countries. This Limited Warranty will be governed by the laws of the State of Arizona (regardless of any conflict of laws rules), and any disputes arising from this Limited Warranty will be resolved in Phoenix, Arizona.

Entire Agreement

This Limited Warranty is understood to be the complete and exclusive agreement between GAME and the purchaser of the Product, superseding all prior agreements, oral or written, and all other communications between such parties relating to the Product. No employee or representative of GAME or any other party is authorized to make any warranty in addition to the limited warranty set forth above.

To obtain warranty service, please call, write, or email us directly at the address shown below.

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

IMPORTANT DO NOT RETURN PRODUCT TO STORE

For technical assistance and missing parts, call Customer Service toll-free

1.888.339.2546

(press 135 at any time)

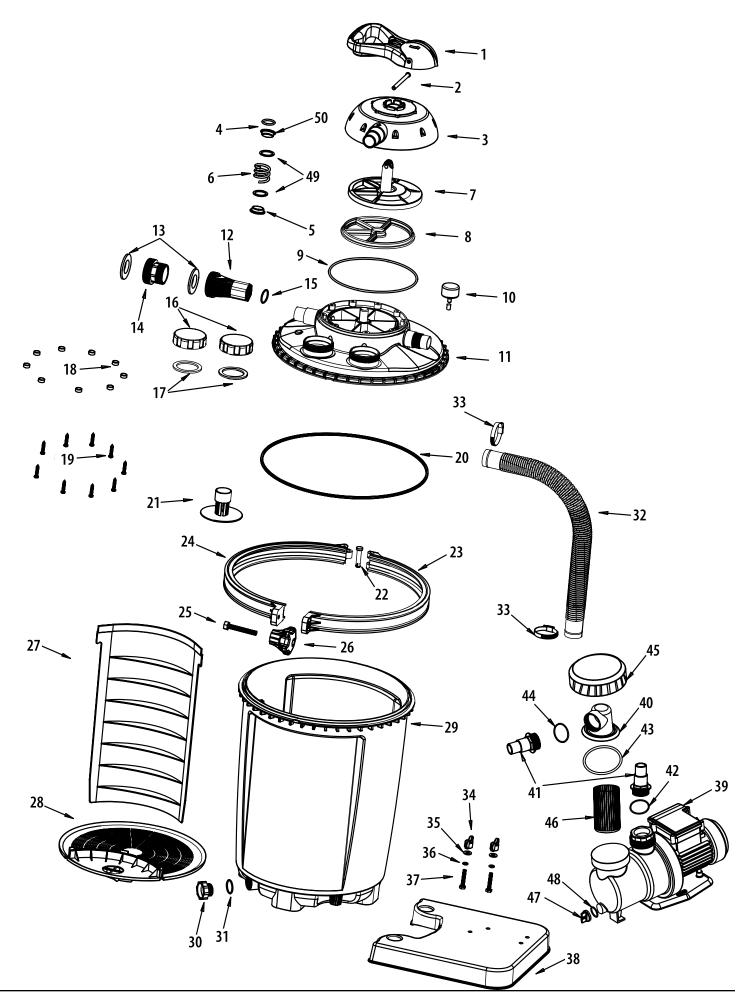
Monday through Friday, 8:00 am to 5:00 pm MST

Please visit our website, www.game-group.com, for potential updates to these instructions.

13. APPENDDIX: EXPLODED PARTS DIAGRAM

Key	Part Name	Qty	GAME Part#	For Model #
1	Valve Handle	1	V1000	Both
2	Valve Stem Pin	1	V1001	Both
3	Valve Cover	1	V1002	Both
4	Diverter Stem Spool	1	V1003	Both
5	Diverter Stem Gasket	2	V1004	Both
6	Diverter Stem Spring	1	V1005	Both
7	Diverter	1	V1006	Both
8	Diverter Gasket	1	V1007	Both
9	Valve Cover Seal	1	V1008	Both
10	Pressure Gauge	1	G5001	Both
11	Tank Cover	1	T2001	Both
12	Long INTEX Connector	1	13001	Both
13	Flat Gasket for INTEX Connector	2	13002	Both
14	Short INTEX Connector	1	13003	Both
15	1 1/4" O-ring for long INTEX Connector	1	13004	Both
16	View Port Cover	2	T2002	Both
17	Gasket for View Port Cover	2	T2003	Both
18	Seal Washer for Valve Cover Stems	9	V1009	Both
19	Valve Cover Screws	9	V1010	Both
20	Tank Seal	1	T2005	Both
21	Upper Distributor	1	T2006	Both
22	Lock Ring Pin TANK COVER LOCK RING AS	1 Seme	L4001 BLY	Both
23	Left Side Lock Ring TANK COVER LOCK RING AS	1 SEME	L4002 BLY	Both
24	Right Side Lock Ring TANK COVER LOCK RING AS	1 SEME	L4003 BLY	Both
25	Lock Ring Bolt TANK COVER LOCK RING AS	1 SEME	L4004 BLY	Both
26	Lock Ring Knob TANK COVER LOCK RING AS	1 Seme	L4005 BLY	Both

Кеу	Part Name	Qty	GAME Part#	For Model #
27	Tank Separator Plate	1	T2007	4510
27	Tank Separator Plate	1	T2008	4511
28	Tank Bottom Strainer	1	T2009	Both
29	Filter Tank	1	T2010	4510
29	Filter Tank	1	T2011	4511
30	Drain Cap	1	T2012	Both
31	Drain Cap Gasket	1	T2013	Both
32	Filter Pump Hose	1	P6001	4510
32	Filter Pump Hose	1	P6002	4511
33	Hose Clamp	2	P6003	Both
34	Pump Bolt Wing Nut PUMP MOUNTING HARDW	2 ARE	P6004	Both
35	Pump Bolt Flat Water PUMP MOUNTING HARDW	2 ARE	P6005	Both
36	Pump Bolt Lock Washer PUMP MOUNTING HARDW	2 ARE	P6006	Both
37	Pump Bolt PUMP MOUNTING HARDW	2 ARE	P6007	Both
38	Base Plate	1	B7001	Both
39	Water Pump / Motor	1	P6010	4510
39	Water Pump / Motor	1	P6011	4511
40	Transparent Hair & Lint Strainer Cover	1	P6012	Both
41	1¼" - 1½" Hose Connector	2	P6013	Both
42	0-RING "A" - 21/4"	1	P6014	Both
43	0-RING "B" - 3"	1	P6015	Both
44	0-Ring "C" -11/2"	1	P6016	Both
45	Strainer Collar	1	P6017	Both
46	Strainer Basket	1	P6018	Both
47	Pump Drain Valve	1	P6019	Both
48	Drain Valve O-Ring	1	P6020	Both
49	Stainless Steel Gasket	2	P6021	Both
50	Spring Seat	1	P6022	Both



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For technical assistance and missing parts, call Customer Service toll-free

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