

SandPRO™ 550 POOL FILTER SYSTEMS

OWNER'S MANUAL

ENGLISH

IMPORTANT SAFETY RULES

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



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.

READ ALL INSTRUCTIONS BEFORE ASSEMBLING AND USING THIS PRODUCT. FAILURE TO FOLLOW INSTRUCTIONS CAN CAUSE SEVERE AND/OR FATAL INJURY.

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1. SAFETY WARNINGS

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, No. 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.

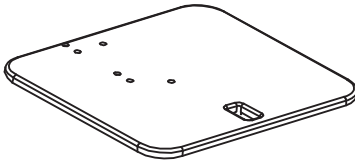
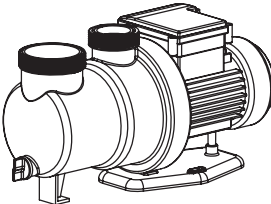
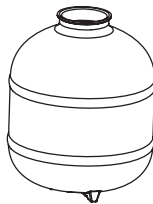
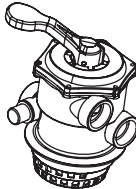
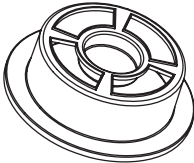
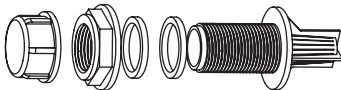
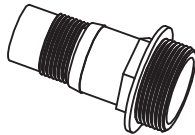
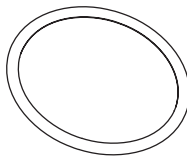
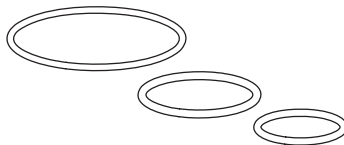
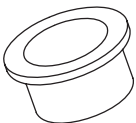
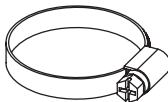
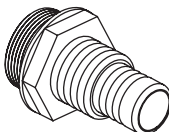
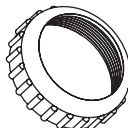
3. TECHNICAL SPECIFICATIONS

Model 4528 (1/2 Horsepower Model)

Item	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 ft²	0.13 m²
Rated Voltage	110 VAC	110 VAC
Sand Volume	30 lbs	13.6 kg

4. PARTS LIST/REFERENCE

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

Base Plate (1)	Water Pump (1)	Filter Tank (1)	
			
7 Position Multi-Port Valve (1)	Spigot	Clamp Ring Assembly (1)	
			
Drain Valve Assembly (1)	Filter Pump Hose (1)	Threaded Connector with O-Ring (3)	
			
Main Tank Seal (1)	O-Ring (3): A-2¼" dia, B-3" dia, C-1½" dia	Manifold Tube (1)	
			
Rubber Reducer (2)	Hose Clamp (2)	Hair & Lint Strainer Cover (1)	Manifold Basket
			
1½"-1¼" Hose Connector (2)	Pump Mounting Hardware (2 sets)	Threaded Collar (1)	Flat Gasket (2)
			
Short Connector for INTEX® Pools(1)	Long Connector for INTEX® Pools(1)	5mm Hex key	Owner's Manual
			

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.

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
- Ground-Fault Circuit Interrupter (GFCI) power outlet – Must be installed by a certified electrician
- One 1½" backwash hose

IMPORTANT: Requires 30 lbs of No. 20 Silica Sand (not included)

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 1¼" 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 prevent 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, 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. See Figure 1.
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.
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 (1½" dia) inside the outward facing opening of the transparent hair & lint strainer cover. Then attach the hose connector to the strainer cover. See Figure 2.
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).

Filter Tank Assembly

1. Installing the drain valve. See Figure 3.
 - a. Install one gasket onto the main body of the drain valve. Place this valve through the drain hole in the bottom of the filter.
 - b. Place the other gasket on the outside of the tank onto the main body and secure it with the plastic collar.
 - c. Install the drain cap for the valve and ensure all of the components are tight.
2. Installing the manifold assembly. See Figure 4.
3. Place the filter tank into the corresponding groove located in the filter base plate. See Figure 5.
4. Filling the filter tank with sand.

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

- a. Install the spigot on the mouth of the filter tank, making sure that the spigot is holding the manifold tube securely. This will ensure that when filling the tank, no sand will enter the manifold assembly. NOTE: The spigot is only used when adding sand to the tank. Remove the spigot after adding sand.
- b. Carefully fill the filter tank with 30 lbs of No. 20 silica sand.

CAUTION: USE BREATHING FILTER/MASK APPROVED FOR DUST & SAND AND ADEQUATE EYE PROTECTION WHILE FILLING THE TANK. AVOID BREATHING IN DUST.

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

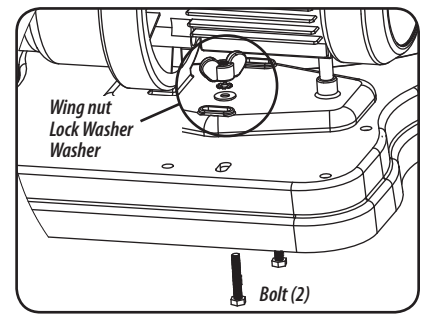


Figure 1

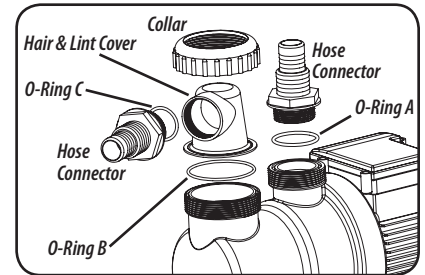


Figure 2

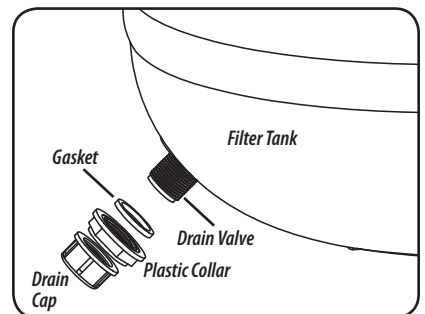


Figure 3

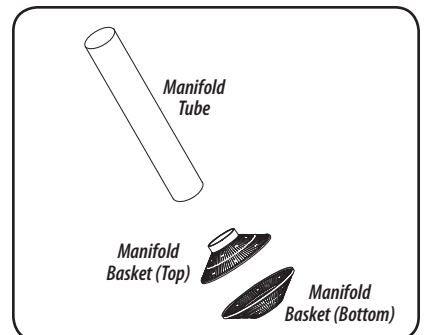


Figure 4

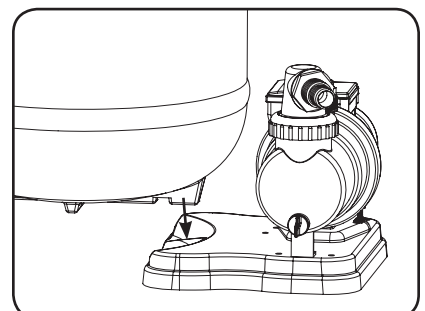


Figure 5

5. Securing the filter assembly.

- a. Install the main tank seal around the bottom of the 6 position multi-port valve.
See Figure 6.

NOTE: Apply a good amount of silicone grease or pool lube around the seal before installing it onto the valve. This will allow for an easier installation and provide a better seal.

- b. Install the valve onto the filter tank using the clamp ring and securing it with the included 5mm hex key. Make sure that the top of the manifold assembly fits into the bottom of the valve. Tighten clamp until there is less than a $\frac{1}{8}$ " gap between the 2 halves of the clamp.
- c. Install all 3 threaded connectors (with o-rings) onto the valve. See Figure 6.
- d. Install the pressure gauge. Do not to over tighten.
See Figure 6.
- e. Install the included hose from the pump outlet port to the filter intake port. Secure with the provided hose clamps.
NOTE: For smaller hoses a rubber reducer may be used.
See Figure 7.

6. Completed Assembly

The basic Filter-to-Pump Assembly should resemble Figure 7.

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 WITH O-RINGS HAVE THEM ATTACHED AND ARE SCREWED ON TIGHTLY. DO NOT OVER TIGHTEN HOSE CLAMPS (35 IN/LB MAX TORQUE).

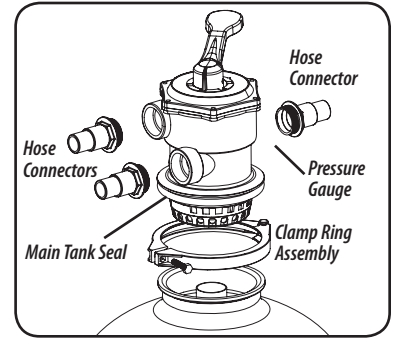


Figure 6

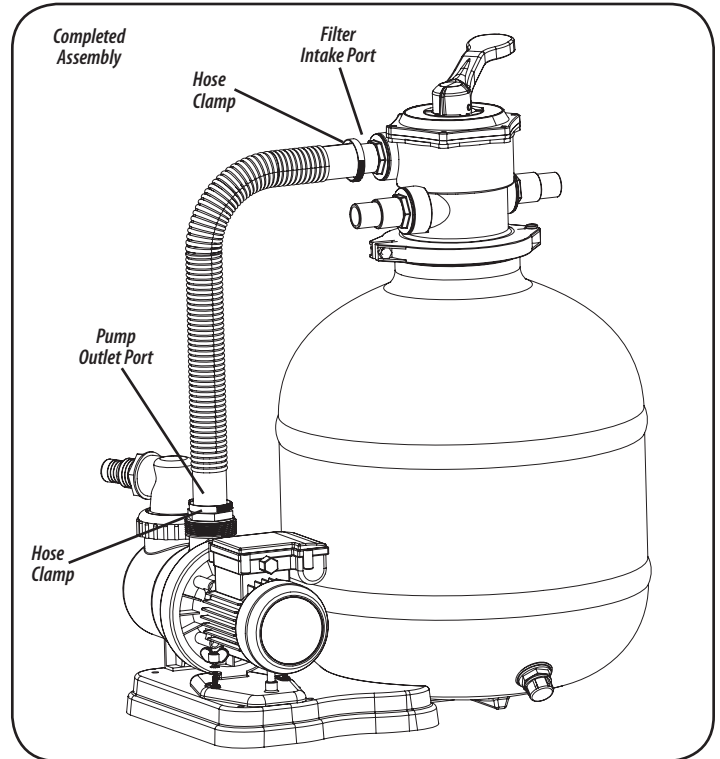


Figure 7

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 1¼" 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 1¼" – 1½" hose connector into the transparent hair & lint strainer cover. Make certain that O-Ring C (1½" 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 1¼" – 1½" hose connector extending from the hair & lint strainer cover.
- b. Secure with a hose clamp.

3. Pool "Return Hose" Attachment

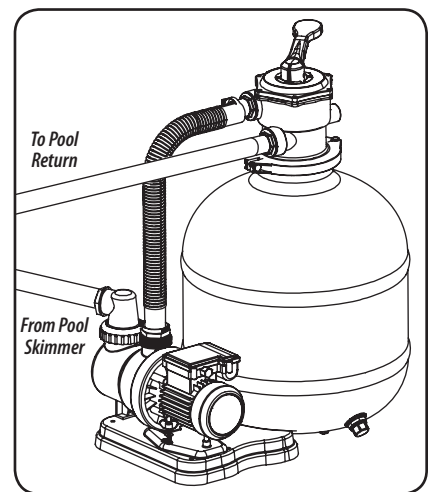
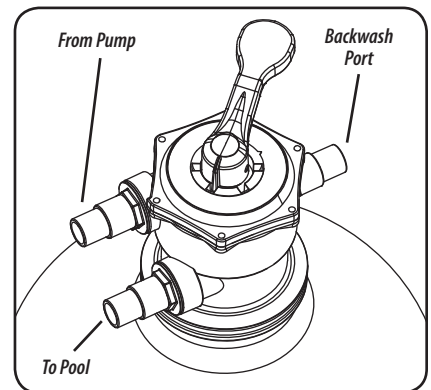
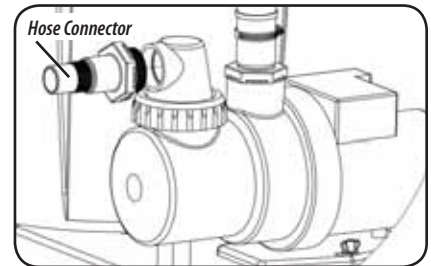
- a. Attach the pool return hose (inlet of pool) to the pool return port on the tank cover.

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

- c. Secure with a hose clamp.

IMPORTANT: nsure 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.

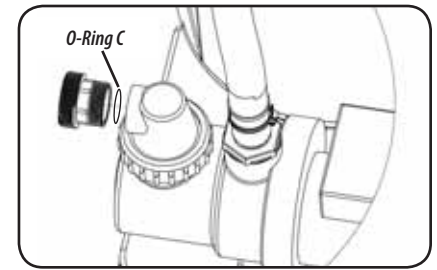


B. For Pools with 2¼" Diameter Threaded Hose Connectors

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

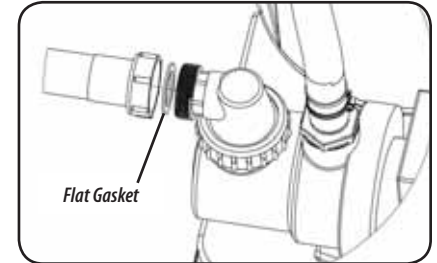
1. Short INTEX® Adapter Installation

- Screw the short INTEX® adapter into the transparent hair & lint strainer cover on the water pump.
- Make certain that O-Ring C (1½" dia) is in place before securing.



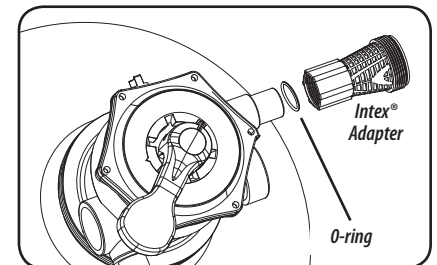
2. Pool "Skimmer Hose" Attachment

- Attach the pool skimmer hose (outlet of pool) to the short INTEX® adapter.
- Ensure that the flat gasket is installed between the short adapter and the face of the hose.



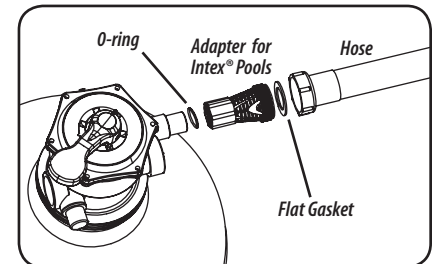
3. Long INTEX® Adapter Installation

- Verify there is a O-Ring inside of the adapter. If not, insert O-Ring.
- Screw the long INTEX® adapter onto the pool return port on the tank cover.



4. Pool Return Hose Attachment

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

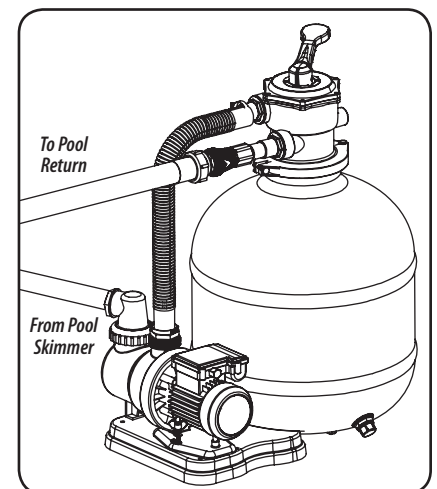


Note: Be careful not to secure return hose to the waste/backwash port.

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
Filtration	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 the sand. Contaminants are trapped by the sand as water makes its way to the bottom strainer, out of the filter and back to the pool.
Rinse	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 of the waste line. This reduces the chance of contaminant blow back to the pool when the valve is switched back to the filtration setting after backwashing.
Circulation	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.
Backwash	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 its normal reading 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	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	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 contaminants out of 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.

Changing Valve Positions

The 6 position multi-port valve is designed to provide the required flow rate for each action 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 positions while the pump is running could result in irreparable damage to the valve and its inner workings.

CAUTION: NEVER USE THE VALVE LEVER AS A HANDLE TO CARRY OR LIFT THE FILTER.

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.

Cleaning the Sand

1. Disconnect the pump from the power source.
2. Start with the multi-port valve in the "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 pump from the power source (if not disconnected already).
2. Attach backwash hose (not included) to backwash port.
3. Place the multi-port valve in the "Backwash" position.
4. Reconnect to the power source.

CAUTION: SEE SECTION 5, POWER SOURCE REQUIREMENTS

5. Run filter in backwash mode until discharge water is clear.
6. Disconnect the pump from the power source.
7. Place the multi-port valve in the "Rinse" position.
8. Reconnect to the power source.
9. Allow filter to run for 60 seconds to remove any remaining residue from pump and valve.
10. Disconnect the pump from the power source.
11. Place the multi-port valve in the "Filtration" position.
12. Reconnect to the power source.

Your filtration system is running and ready for further operation.

NOTE: When the filter pump is properly connected to the power source, the pump will begin to push the water through the bed of sand and out of 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 while the pump is running so that the water level does not fall 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 is complete.

Backwash Do's and Don'ts

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. This can plug up the strainer at the bottom of the filter which will result in inefficient operation. In addition, 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 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 needed

Adding New Sand

CAUTION: USE BREATHING FILTER/MASK APPROVED FOR DUST & SAND AND ADEQUATE EYE PROTECTION WHILE FILLING SAND CONTAINER. AVOID BREATHING IN DUST.

1. Protect the bottom strainer by filling the tank with a foot of water and covering the clean water chamber to avoid getting sand inside.
2. Place multi-port valve in the "Rinse" position 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. NOTE: If some debris from the new sand does enter your pool, switch the valve to the "Purge" mode to vacuum it out. 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. Disconnect the pump from the power source.
2. Close the shutoff valves or block the water flow at the pool intake and return ports.
3. Place the multi-port valve in the "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 intake and return ports.
6. Place the multi-port valve in the "Filtration" position.
7. Reconnect to the 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. Disconnect the pump from the power source.
2. Close the shut off valves or block the flow of water at the pool intake and return ports.
3. Disconnect the filtration system from the pool, drain the tank and hoses.
4. 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 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 connection fittings.
Water flows into the drainpipe	Dirt around the seal of the multi-port valve	Unscrew the multi-port 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 run	Not plugged in	Check the socket and power cord.
	GFCI/or main circuit breaker tripped	Switch on the breaker. If it is immediately tripped again, there is a defect in pump or controls.
	Faulty Pump 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.
	Sand in central valve (from backwash)	Purge into drainpipe for 30 seconds.
	Separation wall in filter is improperly installed	Check the separation wall for proper positioning.
	Filter's bottom strainer is damaged	Replace the filter bottom strainer.
Air in system	Water level is 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.

**REPAIRS ON THE PUMP SHOULD ONLY BE PERFORMED
BY PROFESSIONALLY TRAINED, QUALIFIED TECHNICIANS.**

12. LIMITED WARRANTY STATEMENT

The manufacturer warrants 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.

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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

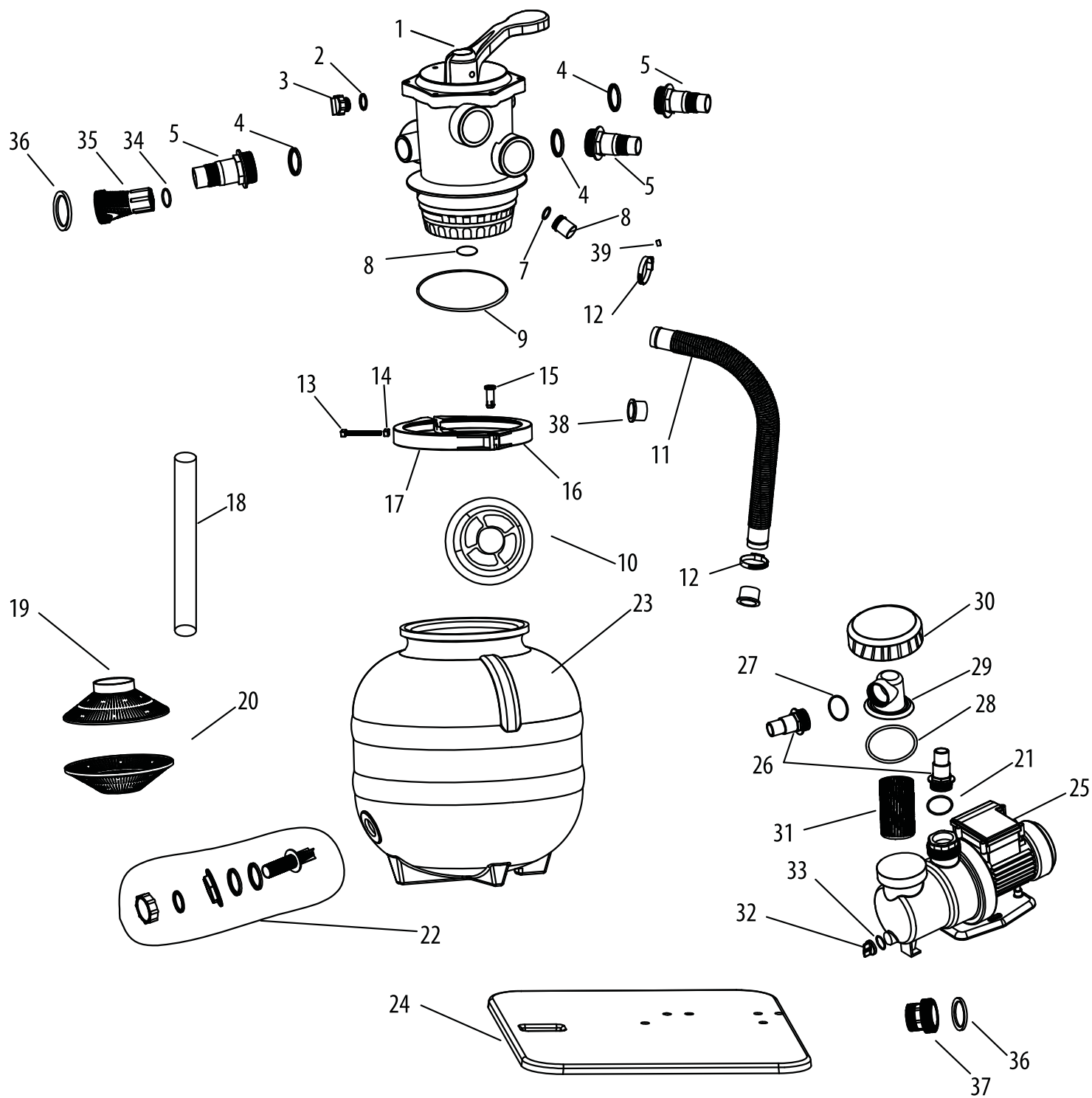
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Please visit our website, www.game-group.com, for potential updates to these instructions.

13. APPENDDIX: EXPLODED PARTS DIAGRAM

Key	Part Name	Qty	Key	Part Name	Qty
1	6 Way Valve	1	22	Drain Valve	1
2	O-Ring	1	23	Filter Tank	1
3	Cap	1	24	Base Plate	1
4	Valve Connector Gasket	3	25	Water Pump	1
5	Valve Connector	3	26	Pump Connector	2
6	Transparent Cap	1	27	Connector O-Ring C	1
7	Gasket	1	28	Transparent Cover O-Ring A	1
8	Valve Gasket	1	29	Transparent Cover	1
9	Valve Big O-Ring	1	30	Strainer Collar	1
10	Sand Funnel	1	31	Strainer Basket	1
11	Short Hose	1	32	Pump Drain Valve	1
12	Hose Clamp	2	33	Drain Valve O-Ring	1
13	Screw	1	34	Seal for Long Adapter for Intex Pools	1
14	Nuts	1	35	Long Adapter for Intex Pools	1
15	Clamp Pin	1	36	Flat Gasket	2
16	Right Clamp	1	37	Short Adapter for Intex Pools	1
17	Left Clamp	1	38	Hose Reducer	2
18	Short Pipe	1	39	Clamp Protector	2
19	Up Filter Basket	1			
20	Down Filter Basket	1			
21	Connector O-Ring B	1			



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