OWNER'S MANUAL

English **133**

IMPORTANT SAFETY RULES
Read, understand, and follow all instructions carefully before installing and using this product.

Krystal Clear Saltwater System® & Filter Pump
Model CS8111

For illustrative purposes only.

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INTEX®

IMPORTANT!
DO NOT RETURN PRODUCT TO STORE

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1-800-234-6839
Monday through Friday, 8:30am to 5:00pm Pacific Time

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SAFETY RULES

IMPORTANT SAFETY RULES
Read, Understand and Follow All Instructions Carefully Before Installing and Using this Product.

READ AND FOLLOW ALL INSTRUCTIONS

⚠ WARNING

- To reduce the risk of injury, do not permit children to use this product. Always supervise children and those with disabilities.
- Children must stay away from this product and electrical cord(s).
- Assembly and disassembly by adults only.
- Risk of electric shock. Connect only to a grounding type receptacle, this product is provided with a ground-fault circuit interrupter. If replacement of the plug or cord is needed, use only identical replacement parts.
- Always unplug this product from the electrical outlet before removing, cleaning, servicing or making any adjustment to the product.
- The unit is provided with a ground-fault circuit interrupter (GFCI). To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button, power should be restored. If the GFCI fails to operate in this manner. The GFCI is defective. If the GFCI interrupts power to the pump without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this pump. Disconnect the pump and have the problem corrected by a qualified service representative before using.
- Do not bury the electrical cord. Locate the cord where it will not be damaged by lawn mowers, hedge trimmers and other equipment.
- To reduce the risk of electric shock, replace damaged cord immediately. Use a qualified electrician to replace the cord.
- To reduce the risk of electric shock, do not use extension cords, timers, plug adaptors or converter plugs to connect unit to electric supply; provide a properly located outlet.
- Do not attempt to plug in or unplug this product while standing in water or when your hands are wet.
- Do not use an appliance leakage current interrupter (ALCI) in place of a GFCI since the ALCI will not protect people.
- Position this product away from the pool, so as to prevent children from climbing on it and accessing the pool.
- Do not operate this product when the pool is occupied.
- Never use the pool if indicated chlorine level is more than 3ppm.
- This product is intended to be used only for the purposes described in the manual!
- Operating this product without water flowing through the system can cause a build up of flammable gases which can result in FIRE OR EXPLOSION.
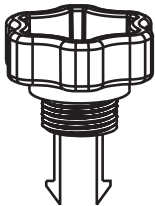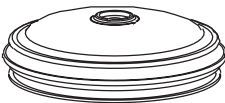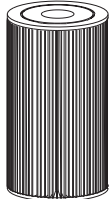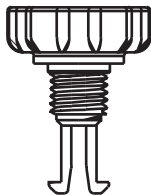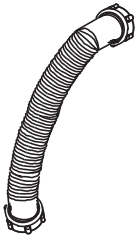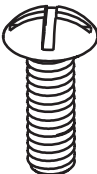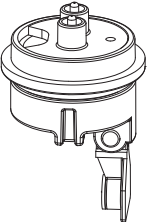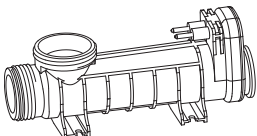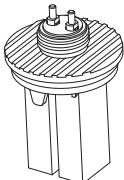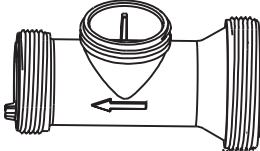
FAILURE TO FOLLOW THESE WARNINGS MAY RESULT IN PROPERTY DAMAGE, ELECTRIC SHOCK, ENTANGLEMENT OR OTHER SERIOUS INJURY OR DEATH.

⚠ CAUTION

This product is for use with storable pools only. Do not use with permanently-installed pools. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage.

These product warnings, instructions and safety rules provided with the product represent some common risks of water recreation devices and do not cover all instances of risk and danger. Please use common sense and good judgement when enjoying any water activity.

SAVE THESE INSTRUCTIONS

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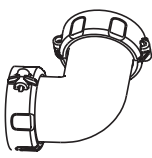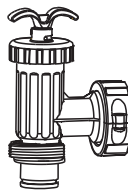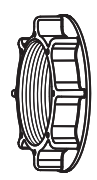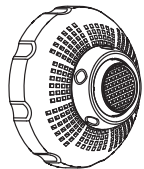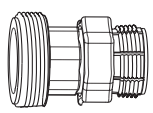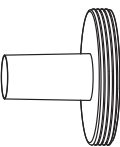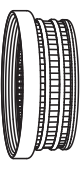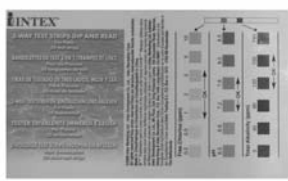
PARTS LIST

PARTS LIST

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15

NOTE: Drawings for illustration purpose only. Actual product may vary. Not to scale.

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PARTS LIST

PARTS LIST (continued)

16	17	18
19	20	21
22	23	24
25	26 * Optional	27 * Optional
28 * Optional	29 * Optional	30
31	32	33

NOTE: Drawings for illustration purpose only. Actual product may vary. Not to scale.

SAVE THESE INSTRUCTIONS

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PARTS REFERENCE

Before assembling your product, please take a few minutes to check the contents
and become familiar with all the parts.
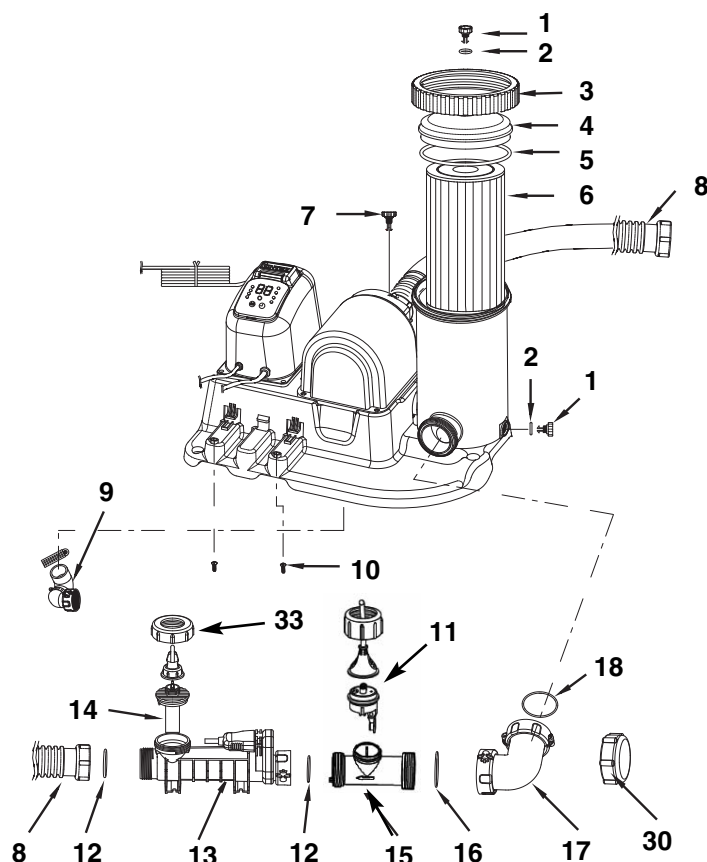
NOTE: Drawings for illustration purpose only. Actual product may vary. Not to scale.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and the receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

PARTS REFERENCE

SAVE THESE INSTRUCTIONS

PARTS REFERENCE (continued)

Before assembling your product, please take a few minutes to check the contents
and become familiar with all the parts.

REF. NO.	DESCRIPTION	QTY.	SPARE PART NO.
1	AIR RELEASE VALVE/SEDIMENT RELEASE VALVE	2	10460
2	VALVE O-RING	2	10264
3	THREADED FILTER HOUSING COLLAR	1	10491
4	FILTER HOUSING COVER	1	10490
5	FILTER HOUSING O-RING	1	11330
6	FILTER CARTRIDGE (59905)	1	
7	AIR RELEASE VALVE B (WITH O-RING)	1	10725
8	PUMP HOSE WITH NUTS	2	10493
9	WATER TRANSFER HOSE (WITH COLLAR AND 2 HOSE CLAMPS)	1	10726
10	SCREW	2	10713
11	FLOW SENSOR	1	11460
12	O-RING A	2	10712
13	ELECTROLYTIC CELL WITH 2 SCREWS (O-RING A INCLUDED)	1	11233
14	COPPER ELECTRODE	1	11234
15	FLOW SENSOR CONDUIT	1	11251
16	O-RING C	1	10717
17	ANGLE JOINT (O-RING D INCLUDED)	1	10724
18	O-RING D	1	10743
33	COPPER ELECTRODE NUT	1	11488

When ordering parts, be sure to quote the model number and part numbers.

PARTS REFERENCE

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PARTS REFERENCE (continued)

Before assembling your product, please take a few minutes to check the contents and become familiar with all the parts.

NOTE: Drawings for illustration purpose only. Actual product may vary. Not to scale.

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PARTS REFERENCE

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PARTS REFERENCE
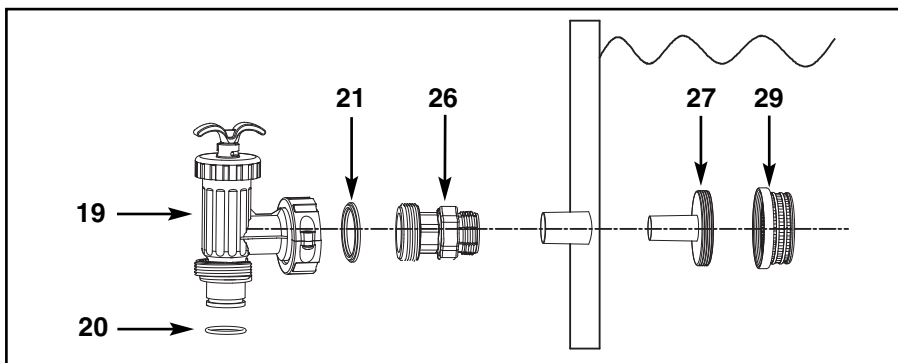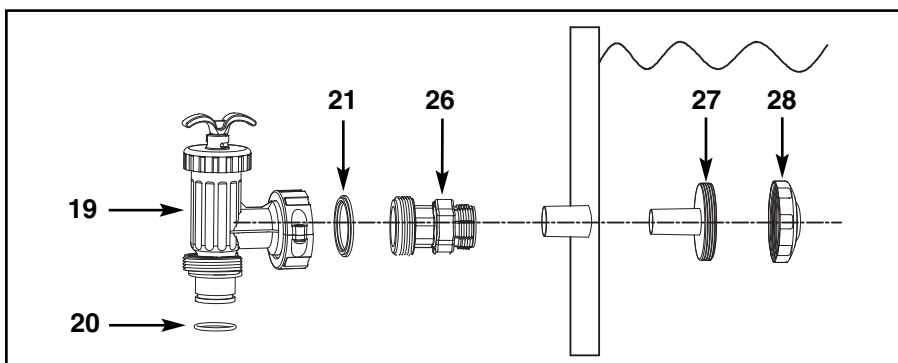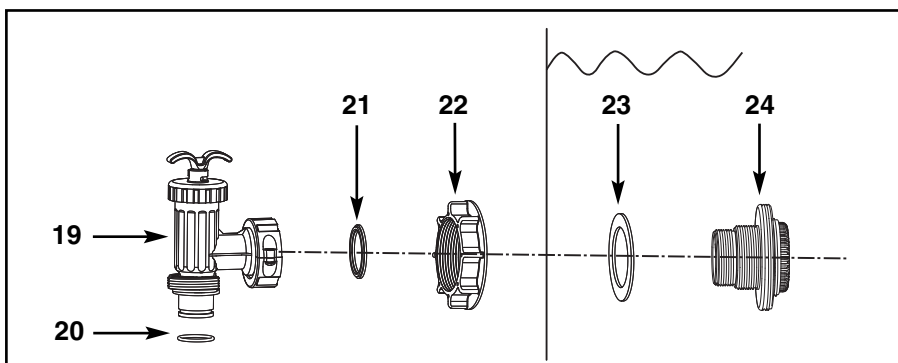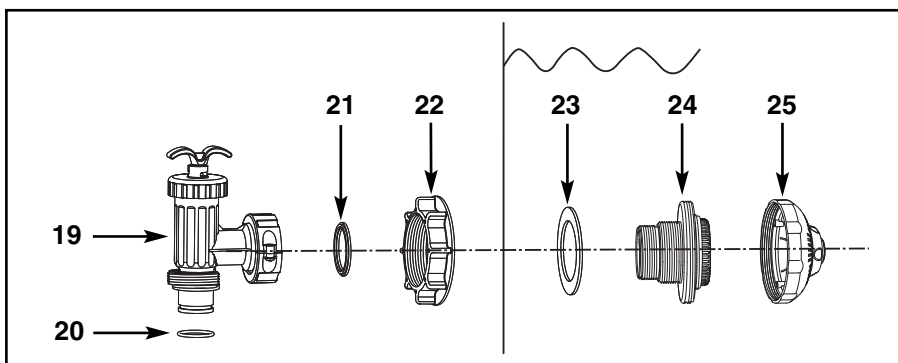
SMALL AGP	LARGE AGP	COMMON PARTS	DESCRIPTION	QTY.	SPARE PART NO.
		19	PLUNGER VALVE (HOSE O-RING & STEP WASHER INCLUDED)	2	10747
		20	HOSE O-RING		10262
		21	STEP WASHER		10745
	22		STRAINER NUT	2	10256
	23		FLAT STRAINER RUBBER WASHER	2	10255
	24		THREADED STRAINER CONNECTOR	2	11235
	25		ADJUSTABLE POOL INLET NOZZLE	1	11074
26			ADAPTOR B (OPTIONAL)	2	10722
27			STRAINER CONNECTOR (OPTIONAL)	2	11070
28			POOL INLET NOZZLE (OPTIONAL)	1	11071
29			STRAINER GRID (OPTIONAL)	1	11072
		30	CELL COVER	1	11131
		31	CHLORINE TEST STRIPS	1	19635
		32	COPPER TEST STRIPS	1	11254

HOW SANITIZER IS GENERATED

This product is specially designed for above ground pools. It will destroy the bacteria, oxidize bather organics and control algae, which provide a safe, clean and comfortable swimming pool.

Common salt (sodium chloride) is made up of two elements, sodium and chlorine. During the installation of your Saltwater System/Filter Pump, a measured quantity of salt is dissolved in the pool water to make it slightly salty. The pool water flows through the saltwater system's electrolytic cell to produce HCLO. The HCLO dissolves in the water and instantly starts destroying bacteria and algae. It also oxidizes all other organic materials.

HOW COPPER IONS ARE GENERATED

Low voltage direct current is applied to the copper electrode, and copper ions are generated and dissolved instantly in the water. Copper is an effective algaecide, which will prevent algae from growing in the pool.

PRODUCT SPECIFICATIONS

Power:	110 - 120 Volt
Amperage:	Saltwater System - 1.1 A; Filter Pump - 2.4 A
Wattage:	Saltwater System - 125 W; Filter Pump - 275 W
Ideal Salt Level:	3000 ppm (parts per million)
Maximum Sanitizer Output/hour:	12 grams/hour
Copper Ionizer Output Current:	175 mA
Limited Warranty:	see "Limited Warranty"

Electronic Control Station

Water Outlet **Electrolytic Cell** **Flow Sensor**

PRODUCT INFORMATION/SPECS

SETUP INSTRUCTIONS
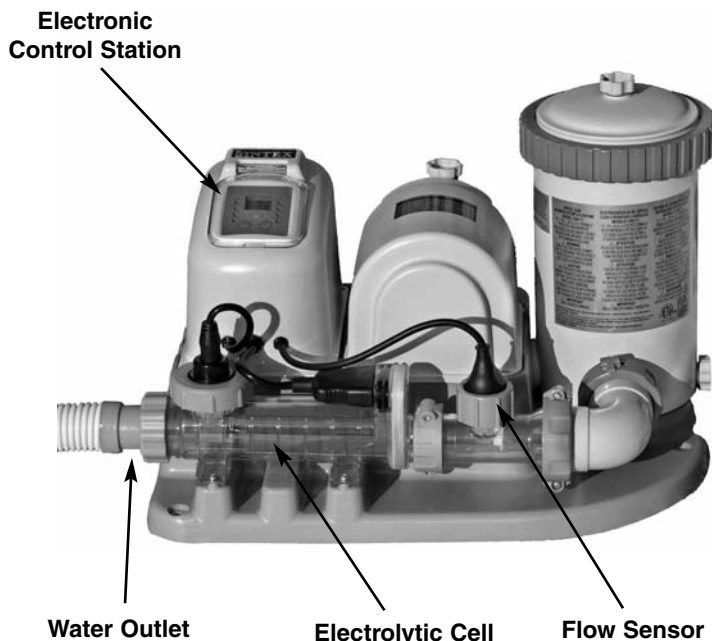
STRAINER & PLUNGER VALVE SETUP

IMPORTANT

The Saltwater System/Filter Pump must be installed as the last piece of pool equipment in the water return line to the pool. This location extends the life of the titanium plates.

Strainer & Plunger Valve Setup (small AGP)
The strainer grid prevents large objects from jamming and/or damaging the filter pump. The plunger valve assembly prevents water from flowing into the filter pump while the filter cartridge is being placed or cleaned. If your pool has an inflatable top ring, install the strainer, nozzle and plunger valve before inflating the pool liner top ring. The parts numbers here onward, refer to the parts depicted in the Parts List section of this manual. To install, do the following:
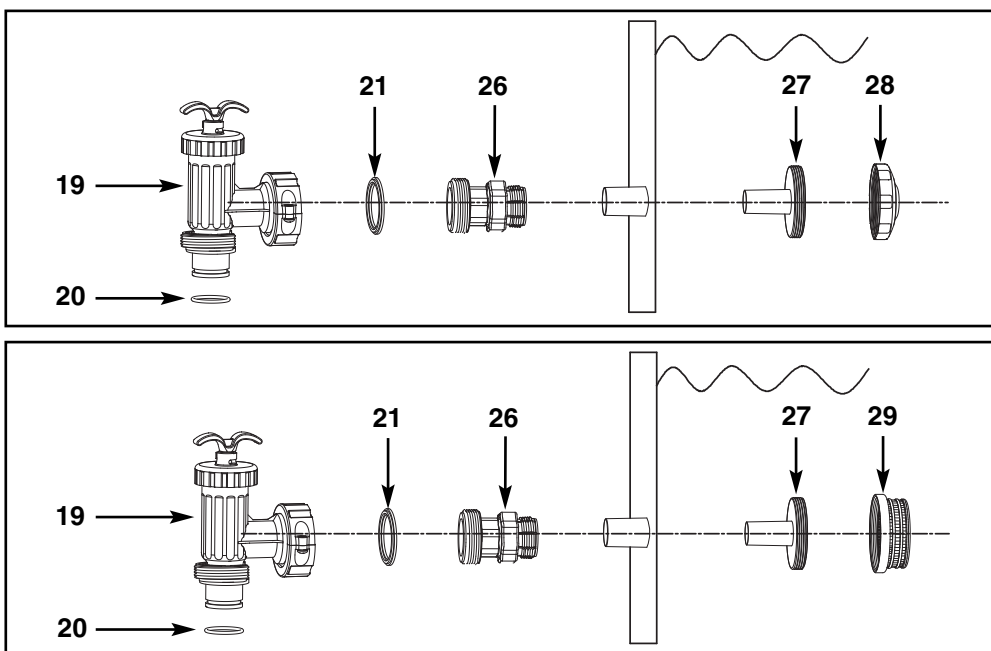
1. Grasp the strainer and plunger valve mechanism.
2. In a counter-clockwise motion unscrew plunger valve union from the threaded strainer connector **(24)**. Be careful not to lose the step rubber washer **(21)**.
3. Grasp the plunger valve assembly. Make sure the step washer **(21)** is in place. Connect adaptor B **(26)** to plunger valve union.
4. Repeat steps 1 through 3 for nozzle and plunger valve mechanism.
5. Remove wall plug and then insert the strainer **(27 & 29)** into the lower position of protruding hose connection, and the nozzle **(27 & 28)** into the upper position of protruding hose connection. Adaptor B **(26)** fits over the strainer connection **(27)** inserted into the connection.
6. Examine the plunger valve to see if the handle is pushed fully down to the "0/1" position. If not, then grasp the handle at the top and push down turning the handle in a clockwise direction until the plastic protruding notch anchor is in the "0/1" position. This will prevent water from flowing out during filling.
7. The pool liner is now ready to fill with water. Consult the above-ground-pool owner's manual for filling instructions.

STRAINER & PLUNGER VALVE SETUP (continued)

The strainer grid prevents large objects from jamming and/or damaging the filter pump. If your pool has an inflatable top ring, install the strainer, nozzle and plunger valve before inflating the pool liner top ring. The part numbers here onward refer to the parts depicted in the Parts List section of this manual. To install, do the following:

1. In a counter-clockwise motion unscrew plunger valve union from the threaded strainer connector **(24) (see drawing 1).** Be careful not to lose the step rubber washer **(21)**. Place the plunger valve on the ground in a safe place.
2. In a counter-clockwise motion unscrew the strainer nut **(22)** from the threaded connector **(24).** Leave the flat washer **(23)** on the connector **(24)**.
3. Install the strainer and plunger valve at the lower position of pool outlet (marked "+"). From the inside of the pool liner insert the connector **(24)** into one of the pre-cut holes with the washer remaining on the connector to be placed against the inside of the liner wall.
4. Before assembly, lubricate the threads with a petroleum jelly. Then, with the flat side of the strainer nut **(22)** facing the outside wall of the liner in a clockwise motion screw the strainer nut **(22)** back onto the threaded connector **(24) (see drawing 2)**.
5. Finger tighten the strainer nut **(22)** onto the threaded connector **(24)**.
6. Grasp the plunger valve assembly. Make sure the step washer **(21)** is in place.
7. In a clockwise motion screw the plunger valve union back onto the threaded connector **(24) (see drawing 3)**.
8. Examine the plunger valve to see if the handle is pushed fully down to the "0/1" position. If not, grasp the handle at the top and push down, turning the handle in a clockwise direction until the plastic protruding notch anchors in the "0/1" position. This will prevent water from flowing out during filling of the pool **(see drawings 4.1 & 4.2)**.

1

2

21

2

INSIDE LINER WALL

22   **23**   **24**

3

1

2

4.1

1

2

INSIDE LINER WALL

4.2

SETUP INSTRUCTIONS

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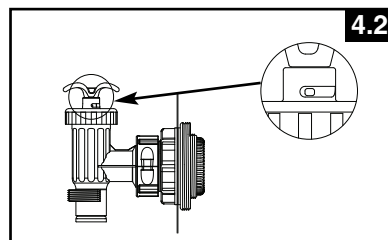
NOZZLE & PLUNGER VALVE SETUP

1. Grasp the nozzle and plunger valve mechanism.
2. In a counter-clockwise motion unscrew plunger valve union from the threaded strainer connector **(24) (see drawing 5).** Be careful not to lose the step rubber washer **(21)**. Place the plunger valve on the ground in a safe place.
3. In a counter-clockwise motion unscrew the strainer nut **(22)** from the threaded connector **(24).** Leave the flat washer **(23)** on the connector **(24)**.
4. Install the nozzle and plunger valve at the upper position of the pool inlet. From the inside of the pool liner insert the connector **(24)** into one of the pre-cut holes with the washer remaining on the connector to be placed against the inside of the liner wall.
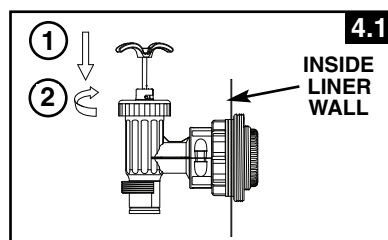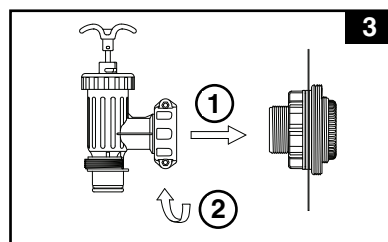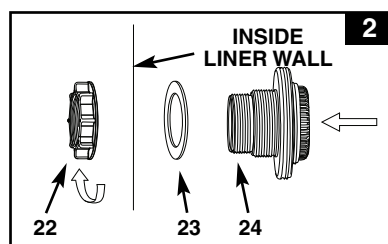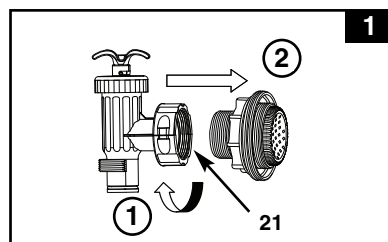5. Before assembly, lubricate the threads with a petroleum jelly. Then, with the flat side of the strainer nut **(22)** facing the outside wall of the liner in a clockwise motion screw the strainer nut **(22)** back onto the threaded connector **(24) (see drawing 6)**.
6. Finger tighten the adjustable pool inlet nozzle **(25)** and the strainer nut **(22)** onto the threaded connector **(24)**.
7. Grasp the plunger valve assembly. Make sure the step washer **(21)** is in place.
8. In a clockwise motion screw the plunger valve union back onto the threaded connector **(24) (see drawing 7)**.
9. Examine the plunger valve to see if the handle is pushed fully down to the "0/1" position. If not, then grasp the handle at the top and push down turning the handle in a clockwise direction until the plastic protruding notch anchors in the "0/1" position. This will prevent water from flowing out during filling of the pool **(see drawings 8.1 & 8.2)**.
10. Adjust the direction of the nozzle head pointing away from the pool outlet for a better circulation result **(see drawing 9)**.
11. The pool liner is now ready to be filled with water. Consult the above-ground-pool owner's manual for filling instructions.

SETUP INSTRUCTIONS
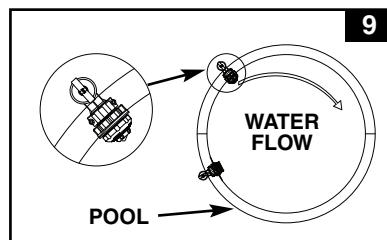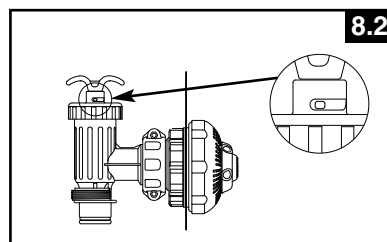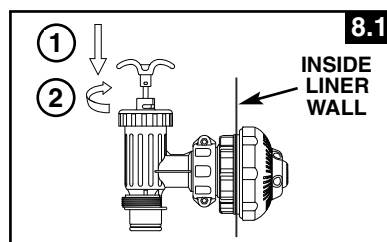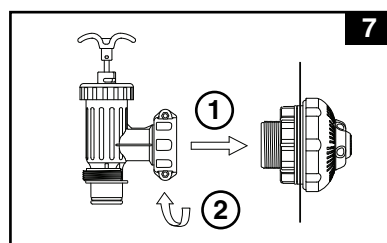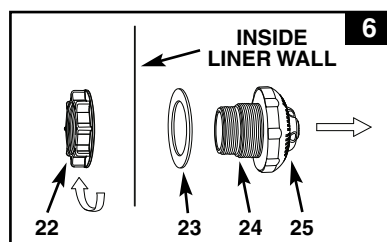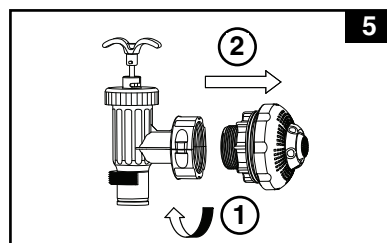
SALTWATER SYSTEM/FILTER PUMP

Saltwater System/Filter Pump

1. Remove the Saltwater System/Filter Pump and hoses from the packaging.
2. Place the Saltwater System/Filter Pump in a location for hose **(8)** connections to the plunger valve assemblies.
   NOTE: Some regional regulations may require the filter pump to be mounted on a stationary platform. There are two mounting holes located in the pump base for this reason. Consult your local authorities for filter pump mounting requirements.
3. Grasp the two pump hoses **(8)** and connect the hose nuts to the Saltwater System/Filter Pump.
4. In a counter-clockwise motion unscrew the threaded filter housing collar **(3)** from the filter housing. Place it in a safe place.
5. The Saltwater System/Filter Pump is an airtight system. In a counter-clockwise motion turn both air release valves **(1 & 7)** 1 - 2 turns to open. **DO NOT remove air release valves as water will expel with force if the motor is turned on and injury may occur.**
6. Grasp and remove the filter housing cover **(4)**. Check to see if a cartridge is inside the housing. If yes, replace the cover, finger tighten the housing collar **(3)** back onto the filter housing.
7. Gently finger tighten the sediment release valve located at the bottom of the housing to be sure that water does not leak out.
8. When the pool is filled connect the hose from the electrolytic cell outlet to the highest strainer assembly. You will find the hose connection at the bottom of the plunger valve assembly. Use the hose nut to attach the hose.
9. Connect the second hose to the middle of the motor housing and to the remaining liner connection.

IMPORTANT

To prevent air lock, open the lower plunger valve (connected inlet hose) first and then the upper plunger valve (connected outlet hose). Open air release valves, lift and lower the inlet hose until water starts to flow out of the air release valves, close air release valves.

SETUP INSTRUCTIONS

SALT & POOL WATER VOLUMES

• Which kind of salt to use:
Use only Sodium Chloride Salts
Use only sodium chloride (NaCl) salt that is at least 99.8% pure. It is also acceptable to use water conditioning salt pellets (the compressed forms of evaporated salt). However, it will take a longer time for them to dissolve. **Do not use iodized or yellow (yellow prussiate of soda) colored salt.** Salt is added to the pool water and the electrolytic cell uses this salt to create the sanitizer. The purer the salt the better the performance of the electrolytic cell.

• Optimum Salt Levels
The ideal salt level in the pool water is between 2500-3500 ppm (parts per million). The optimal level is 3000 ppm.
A too low salt level will reduce the efficiency of the saltwater system and result in low sanitizer production. A high salt level may generate a salty taste to the pool water (this may occur at a salt level above 3500-4000ppm). Too high of a salt level may damage the power supply and cause corrosion to pool metal fixtures and accessories. The Salt Table page of this manual, shows the correct dosage of salt needed. The salt in the pool is constantly recycled. Salt loss occurs only when pool water is physically removed from the pool. Salt is not lost due to evaporation.

• Adding Salt
1. Switch on the unit, then press and hold both ⊛ and ⏱ button for 5 seconds, the LED flashes "FP". The unit is now in a Filter pump working mode and switch the filter pump on to start the water circulation.
2. Keep the saltwater system turned off.
3. Determine the amount of salt to be added (see "Salt Table").
4. Evenly spread the proper amount of salt around the inside perimeter of the pool.
5. Avoid clogging the filter by not adding salt through the skimmer.
6. Brush the pool bottom to speed up the dissolving process. Do not allow salt to pile up on the bottom of the pool. Run the filter pump 24 consecutive hours to thoroughly dissolve the salt.
7. After 24 hours and if all the salt is dissolved, turn on the Saltwater System, press ⊛ button until you hear a "beep", code "00" flashing (see "System Operation" section steps 2 to 4) and set the saltwater system to desired operating time (see "Operating Time Table").

• Removing Salt
If too much salt has been added, the unit will beep and display "code 92" (see "Alarm Codes"). You will need to lower the salt concentration. The only way to do so, is to partially drain the pool and refill it with fresh water. Drain and refill approximately 20% of the pool's water until the "Code 92" disappears.

• Pool Volume Calculation

Types of Pool	Gallons (pool size in feet)	Cubic Meters (pool size in meters)
Rectangular	Length x Width x Average Depth x 7.5	Length x Width x Average Depth
Circular	Length x Width x Average Depth x 5.9	Length x Width x Average Depth x 0.79
Oval	Length x Width x Average Depth x 6.0	Length x Width x Average Depth x 0.80

SALT & POOL WATER VOLUMES

INTEX POOLS SALT TABLE

This table shows the amount of salt needed to achieve and maintain the optimal 3000 ppm salt level.

Pool Size		Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool)		Salt Needed for Startup 3.0g/L (3000ppm)		Salt Needed when Low Salt Detected (CODE "91")	
		(Gals)	(Liters)	(Lbs)	(Kgs)	(Lbs)	(Kgs)
INTEX ABOVE GROUND POOLS (AGP's)							
EASY SET® POOL	15' x 33" (457cm x 84cm)	2587	9792	65	30	20	10
	15' x 36" (457cm x 91cm)	2822	10681	65	30	20	10
	15' x 42" (457cm x 107cm)	3284	12430	80	35	20	10
	15' x 48" (457cm x 122cm)	3736	14141	95	45	20	10
	16' x 42" (488cm x 107cm)	3754	14209	95	45	20	10
	16' x 48" (488cm x 122cm)	4273	16173	110	50	30	15
	18' x 42" (549cm x 107cm)	4786	18115	120	55	30	15
	18' x 48" (549cm x 122cm)	5455	20647	135	60	35	15
	18' x 52" (549cm x 132cm)	5894	22309	150	65	40	20
CIRCULAR METAL FRAME POOL	15' x 36" (457cm x 91cm)	3282	12422	80	35	20	10
	15' x 42" (457cm x 107cm)	3861	14614	100	45	20	10
	15' x 48" (457cm x 122cm)	4440	16805	110	50	30	15
	16' x 48" (488cm x 122cm)	5061	19156	125	55	30	15
	18' x 48" (549cm x 122cm)	6423	24311	160	75	40	20
	18' x 52" (549cm x 132cm)	6981	26423	175	80	45	20
	20' x 52" (610cm x 132cm)	8638	32695	220	100	60	25
	24' x 48" (732cm x 122cm)	11483	43462	290	130	75	35
	24' x 52" (732cm x 132cm)	12481	47241	310	140	85	40
ULTRA FRAME® POOL	16' x 48" (488cm x 122cm)	5061	19156	125	55	35	15
	18' x 52" (549cm x 132cm)	6981	26423	175	80	45	20
SEQUOIA SPIRIT® POOL SET	16'8" x 49" (508cm x 124cm)	5061	19156	125	55	35	15
	18'8" x 53" (569cm x 135cm)	6981	26423	175	80	45	20
OVAL FRAME POOL	18' x 10' x 42" (549cm x 305cm x 107cm)	2885	10920	65	30	20	10
	20' x 12' x 48" (610cm x 366cm x 122cm)	4393	16628	110	50	30	15
	24' x 12' x 48" (732cm x 366cm x 122cm)	5407	20465	135	60	35	15
	28' x 12' x 48" (853cm x 366cm x 122cm)	6420	24300	160	75	40	20
RECT. ULTRA FRAME POOL	18' x 9' x 52" (549cm x 274cm x 132cm)	4545	17203	115	50	30	15
	24' x 12' x 52" (732cm x 366cm x 132cm)	8403	31805	210	100	55	25
	32' x 16' x 52" (975cm x 488cm x 132cm)	14364	54368	360	165	95	45

INTEX POOLS OPERATING TIME TABLE (WITH CYANURIC ACID)

Pool Size		Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool)		Operating Time (hours) at different ambient/air temperatures		
		(Gals)	(Liters)	10 - 19°C (50 - 66°F)	20 - 28°C (68 - 82°F)	29 - 36°C (84 - 97°F)
INTEX ABOVE GROUND POOLS (AGP's)						
EASY SET® POOL	15' x 33" (457cm x 84cm)	2587	9792	1	1	1
	15' x 36" (457cm x 91cm)	2822	10681	1	1	1
	15' x 42" (457cm x 107cm)	3284	12430	1	1	2
	15' x 48" (457cm x 122cm)	3736	14141	1	2	2
	16' x 42" (488cm x 107cm)	3754	14209	1	2	2
	16' x 48" (488cm x 122cm)	4273	16173	2	2	2
	18' x 42" (549cm x 107cm)	4786	18115	2	2	2
	18' x 48" (549cm x 122cm)	5455	20647	2	2	3
	18' x 52" (549cm x 132cm)	5894	22309	2	2	3
CIRCULAR METAL FRAME POOL	15' x 36" (457cm x 91cm)	3282	12422	1	1	2
	15' x 42" (457cm x 107cm)	3861	14614	1	2	2
	15' x 48" (457cm x 122cm)	4440	16805	2	2	2
	16' x 48" (488cm x 122cm)	5061	19156	2	2	2
	18' x 48" (549cm x 122cm)	6423	24311	2	2	3
	18' x 52" (549cm x 132cm)	6981	26423	2	2	3
	20' x 52" (610cm x 132cm)	8638	32695	3	3	4
	24' x 48" (732cm x 122cm)	11483	43462	4	4	5
	24' x 52" (732cm x 132cm)	12481	47241	5	5	6
ULTRA FRAME® POOL	16' x 48" (488cm x 122cm)	5061	19156	2	2	2
	18' x 52" (549cm x 132cm)	6981	26423	2	2	3
SEQUOIA SPIRIT® POOL SET	16'8" x 49" (508cm x 124cm)	5061	19156	2	2	2
	18'8" x 53" (569cm x 135cm)	6981	26423	2	2	3
OVAL FRAME POOL	18' x 10' x 42" (549cm x 305cm x 107cm)	2885	10920	1	1	1
	20' x 12' x 48" (610cm x 366cm x 122cm)	4393	16628	2	2	2
	24' x 12' x 48" (732cm x 366cm x 122cm)	5407	20465	2	2	3
	28' x 12' x 48" (853cm x 366cm x 122cm)	6420	24300	2	2	3
RECT. ULTRA FRAME POOL	18' x 9' x 52" (549cm x 274cm x 132cm)	4545	17203	2	2	2
	24' x 12' x 52" (732cm x 366cm x 132cm)	8403	31805	3	3	4
	32' x 16' x 52" (975cm x 488cm x 132cm)	14364	54368	6	6	7

INTEX POOLS CYANURIC ACID TABLE

Cyanuric acid is a chemical that reduces the loss of chlorine in water due to ultraviolet rays. To maintain maximum performance, we recommend that the cyanuric acid level be maintained at approximately 1% of the salt, i.e. 100 Lbs (45 Kgs) salt x1% = 1 Lbs (0.45 Kgs) cyanuric acid.

Pool Size		Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool)		Cyanuric Acid Needed for Startup 0.03g/L (30ppm)	
		(Gals)	(Liters)	(Lbs)	(Kgs)
INTEX ABOVE GROUND POOLS (AGP's)					
EASY SET® POOL	15' x 33" (457cm x 84cm)	2587	9792	0.6	0.3
	15' x 36" (457cm x 91cm)	2822	10681	0.7	0.3
	15' x 42" (457cm x 107cm)	3284	12430	0.8	0.4
	15' x 48" (457cm x 122cm)	3736	14141	0.9	0.4
	16' x 42" (488cm x 107cm)	3754	14209	0.9	0.4
	16' x 48" (488cm x 122cm)	4273	16173	1.1	0.5
	18' x 42" (549cm x 107cm)	4786	18115	1.2	0.5
	18' x 48" (549cm x 122cm)	5455	20647	1.4	0.6
	18' x 52" (549cm x 132cm)	5894	22309	1.5	0.7
CIRCULAR METAL FRAME POOL	15' x 36" (457cm x 91cm)	3282	12422	0.8	0.4
	15' x 42" (457cm x 107cm)	3861	14614	1.0	0.4
	15' x 48" (457cm x 122cm)	4440	16805	1.1	0.5
	16' x 48" (488cm x 122cm)	5061	19156	1.3	0.6
	18' x 48" (549cm x 122cm)	6423	24311	1.6	0.7
	18' x 52" (549cm x 132cm)	6981	26423	1.7	0.8
	20' x 52" (610cm x 132cm)	8638	32695	2.2	1.0
	24' x 48" (732cm x 122cm)	11483	43462	2.9	1.3
	24' x 52" (732cm x 132cm)	12481	47241	3.1	1.4
ULTRA FRAME® POOL	16' x 48" (488cm x 122cm)	5061	19156	1.3	0.6
	18' x 52" (549cm x 132cm)	6981	26423	1.7	0.8
SEQUOIA SPIRIT® POOL SET	16'8" x 49" (508cm x 124cm)	5061	19156	1.3	0.6
	18'8" x 53" (569cm x 135cm)	6981	26423	1.7	0.8
OVAL FRAME POOL	18' x 10' x 42" (549cm x 305cm x 107cm)	2885	10920	0.7	0.3
	20' x 12' x 48" (610cm x 366cm x 122cm)	4393	16628	1.1	0.5
	24' x 12' x 48" (732cm x 366cm x 122cm)	5407	20465	1.4	0.6
	28' x 12' x 48" (853cm x 366cm x 122cm)	6420	24300	1.6	0.7
RECT. ULTRA FRAME POOL	18' x 9' x 52" (549cm x 274cm x 132cm)	4545	17203	1.1	0.5
	24' x 12' x 52" (732cm x 366cm x 132cm)	8403	31805	2.1	1.0
	32' x 16' x 52" (975cm x 488cm x 132cm)	14364	54368	3.6	1.6

SALT CALCULATION FORMULA FOR ALL POOLS

Salt Needed for Startup (Lbs)	Salt Needed for Startup (Kgs)	Salt Needed when Low Salt Detected (Lbs)	Salt Needed when Low Salt Detected (Kgs)
Water Capacity (Gals) x 0.025	Water Capacity (Liters) x 0.003	Water Capacity (Gals) x 0.0067	Water Capacity (Liters) x 0.0008

SALT TABLE FOR COMMON NON-INTEX POOLS

Water Capacity		Salt Needed for Startup		Salt Needed when Low Salt Detected (CODE "91")	
(Gals)	(Liters)	(Lbs)	(Kgs)	(Lbs)	(Kgs)
2000	7500	50	20	10	5
4000	15000	100	45	25	10
6000	22500	150	65	40	20
8000	30000	200	90	55	25
10000	37500	250	110	70	30
12000	45500	300	135	80	35
14000	53000	350	160	95	45

OPERATING TIME TABLE FOR COMMON NON-INTEX POOLS

Water Capacity		Operating Time (hours) at different ambient/air temperatures		
(Gals)	(Liters)	10 - 19°C (50 - 66°F)	20 - 28°C (68 - 82°F)	29 - 36°C (84 - 97°F)
2000	7500	1	1	1
4000	15000	2	2	2
6000	22500	2	2	3
8000	30000	3	3	4
10000	37500	4	4	5
12000	45500	5	5	6
14000	53000	6	6	7

CYANURIC ACID TABLE FOR COMMON NON-INTEX POOLS

Water Capacity		Cyanuric Acid Needed for Startup 0.03g/L (30ppm)	
(Gals)	(Liters)	(Lbs)	(Kgs)
2000	7500	0.5	0.23
4000	15000	1.0	0.45
6000	22500	1.5	0.68
8000	30000	2.0	0.90
10000	37500	2.5	1.13
12000	45500	3.0	1.37
14000	53000	3.5	1.59

SAVE THESE INSTRUCTIONS

English   **133**

FILTER PUMP OPERATION

1. Make sure the unit is switched off. The switch is located on the control station.
2. Connect the power cord to a GFCI protected electrical outlet.

⚠ WARNING

Risk of electric shock. Connect this product only to a grounding type receptacle protected by a ground-fault circuit interrupter (GFCI). Contact a qualified electrician if you cannot verify that the receptacle is protected by a GFCI.

IMPORTANT

To prevent air lock, open the lower plunger valve (connected inlet hose) first and then the upper plunger valve (connected outlet hose). Open air release valves, lift and lower the inlet hose until water starts to flow out of the air release valves, close air release valves.

3. Grasp a plunger valve handle. Turn the handle counter-clockwise, pull up until it stops, and then turn it clockwise until the metal protruding notch anchor is in the "0/1" position. Repeat for the second plunger valve. This opens the valves, allowing water to flow into the unit.
4. With water flowing into unit, the water pressure will allow the air trapped inside to escape from the air release valves **(1 & 7)**. When all the air has escaped water will flow out of the valves **(1 & 7)**. When this occurs gently finger tighten the valves in a clockwise direction.
5. Turn on the switch. The filter pump is now filtering the water.
6. The green "Pump" light on the control panel will light up, that indicates the filter pump is running.

OPERATING INSTRUCTIONS
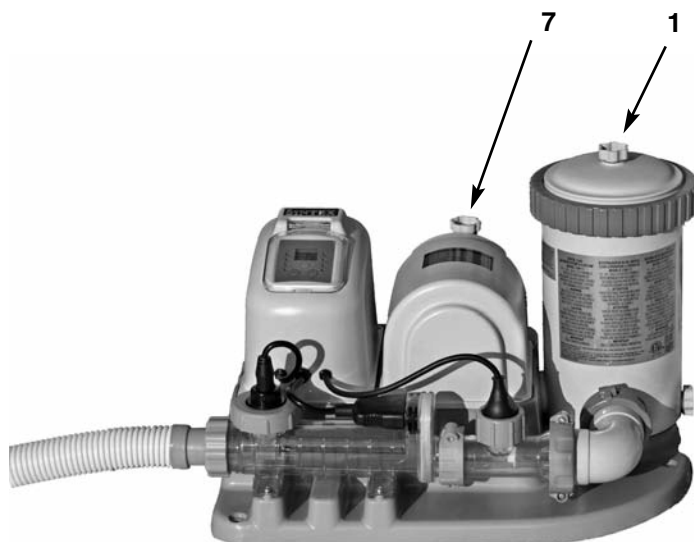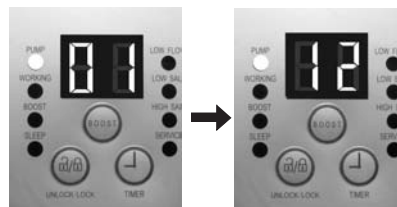
SALTWATER SYSTEM OPERATION

1. **Start up the unit:**
   Plug the power cord into the electrical outlet and test the GFCI/RCD (circuit breaker). Switch on the unit.
   With the Filter Pump turned "ON" and operating. The green "Pump" light on the control panel will be on and flashing code "00" appears on the electronic control station's LED, indicating that the unit is ready to be programmed. This is normal.

2. **Set operating hours for Saltwater System:**
   With code "00" flashing, press ⏱ button to set the desired operating hours. See the "Operating Time Table" for the required operating hours related to each pool size. Pressing ⏱ will increase the time from 01 to 12 hours maximum. If you have selected too many hours keep pressing ⏱ to repeat the cycle. The built-in timer will now activate your Saltwater System, at the same time each day, for the number of hours you have set.

   (1 to 12 hours max per cycle)

   NOTE: The Saltwater System will not operate if the filter pump is not operating.

3. **Lock keypad controls:**
   With the desired hour value showing, press 🔒 button until you hear a "beep". The green "WORKING" indicator on the control panel will light up within a few seconds to indicate that the saltwater system has started sanitizer production. Locking the control buttons into this setting prevents unauthorized changing of the operating cycle.
   NOTE: If you forget to lock the keypad controls, the system will automatically lock it and start working 1 minute later.

4. **Unlock & Readjust operating time if necessary:**
   The operating hours can be re-adjusted if necessary. Press 🔒 button until you hear a "beep" to unlock the keypad and the current programmed time will flash. Repeat steps 2 to 3.

5. **Test the copper concentration in the pool water.**
   The Saltwater System recommends a copper level of 0.1 to 0.2 ppm. This is easily tested by the copper ion test strips provided. If the test result is 0.1~0.2ppm, go directly to step 7.

Copper (ppm)					
0	0.1	0.2	0.5	0.9	1.3
☐	☐	☐	☐	☐	☐

   ← OK →
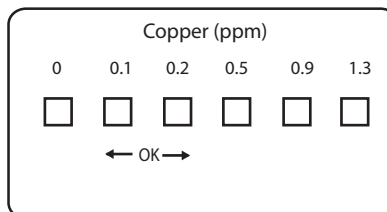
OPERATING INSTRUCTIONS

SALTWATER SYSTEM OPERATION (continued)

6. Boost cycle

•   If the test result is below 0.1ppm, press and hold "BOOST" button for 5 seconds until the indicator lights up and the LED display display "80". This indicates that the saltwater system has started copper ion and more chlorine sanitizer production.
You can press and hold the "BOOST" button for another 5 seconds until the indicator is off, which will cancel the Boost cycle.
Note: Once the system has started copper ion and more chlorine sanitizer production, the boost button can't be re-set until the power switch is off.

•   The boost operating hours is 4 times the amount of time programmed into the system, i.e. if your saltwater system operating time is 2 hours, the boost procedure will run 4 x 2 = 8 hours. After boost procedure has been completed, the system will automatically switch to the normal working mode.

•   After a heavy rain or if the pool is dirty, press the "BOOST" button to shock the pool again.

7. Test pool water regularly:
Once the copper level appears to be balanced, test the pool water every week to maintain the proper sanitizer level.
It's very important that the free chlorine is between 0.4-1.5 ppm and copper ion concentration is between 0.1~0.2 ppm. When the copper level is below 0.1 ppm, repeat step 6.
NOTE: A High copper ion concentration may cause blonde hair to exhibit a green hair. To prevent this, wear a swimming cap during swimming, and wash hair with special shampoo after using the pool.
See "Troubleshooting Guide".

8. Stand-by/power saving mode:

•   When the cycle ends, the green "SLEEP" indicator on the control panel lights up and the LED display flashes "93". The system is now in Stand-By mode. After a while, it shuts down and sets itself in a Power Saving mode. The system will automatically turn itself back on in 24 hours, starting its daily cycle of chlorine production.

•   The "SLEEP" indicator stays on, while the system is in the Power Saving mode. The LED display however, goes blank after 1 hour. Press any button (🕐 or 🔒) to view the last LED code.

9. Running the pump alone without the Saltwater System:
To run the pump alone without the Saltwater System function, press and hold both 🔒 and 🕐 buttons until you hear a "beep", the LED display will show "FP". The pump is now operating alone. NOTE: The pump cannot be operated alone under an automatic timer mode. To stop the pump, manually turn the switch OFF.
IMPORTANT: To keep the initial automatic operating cycle setting of the Saltwater System, turn the switch ON, the LED display will show "FP", and then press 🔒 until you hear a "beep".
The LED display will now show the initial input hours and the Saltwater System cycle will repeat again.

OPERATING INSTRUCTIONS

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LED CODE CHART

LED Reading	Definitions
FP	Filter Pump Working Mode
80	Boost Mode
00	Stand-By Mode (Start-up)
01	Minimum Operating Hour (1 hour remaining)
02	Operating Hours (2 hours remaining)
03	Operating Hours (3 hours remaining)
04	Operating Hours (4 hours remaining)
05	Operating Hours (5 hours remaining)
06	Operating Hours (6 hours remaining)
07	Operating Hours (7 hours remaining)
08	Operating Hours (8 hours remaining)
09	Operating Hours (9 hours remaining)
10	Operating Hours (10 hours remaining)
11	Operating Hours (11 hours remaining)
12	Maximum Operating Hours (12 hours remaining)
90	Alarm Code (Low Water Flow / No Flow)
91	Alarm Code (Low Salt Level)
92	Alarm Code (High Salt Level)
93	Stand-By Mode (Operating Process finished)
"BLANK"	No Power or "Power Saving Mode" waiting to start next Saltwater System cycle.

LED CODE CHART

SAVE THESE INSTRUCTIONS

MAINTENANCE

MAINTENANCE

⚠ WARNING

Always unplug this product from the electrical outlet before removing, cleaning, servicing or making any adjustment to the product.

IMPORTANT

Close plunger valves on your pool or insert black hat-like plugs in strainer opening to prevent water spillage. Open plunger valves or remove plugs when maintenance is completed.

FLOW SENSOR CLEANING

1. In a counter-clockwise motion unscrew the collar of the flow sensor **(11)** and remove it from the flow sensor conduit **(15)**. See "Part Reference".
2. If deposits and debris are seen on the surface of the flow sensor, then use a garden hose to wash it off.

Locator Notch

Hinge

Connection Ridge
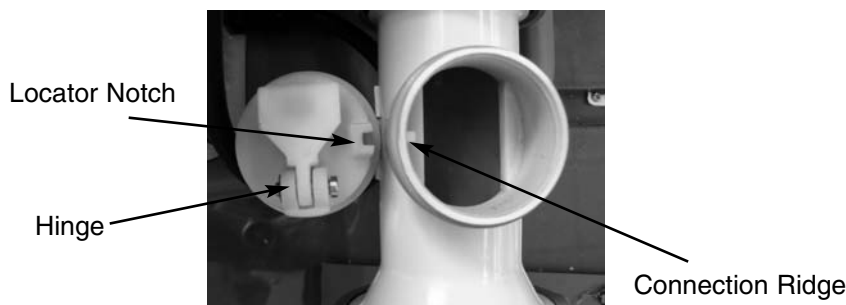
3. If flushing with water does not remove the deposits, use a plastic brush to clean the surface and the hinge if necessary. Do not use a metal brush.
4. After the flow sensor has been inspected and cleaned, align the locator notch on the flow sensor to the connection ridge in the conduit. Now turn the collar in a clockwise motion, tightening the sensor back into its position. Do not over tighten.
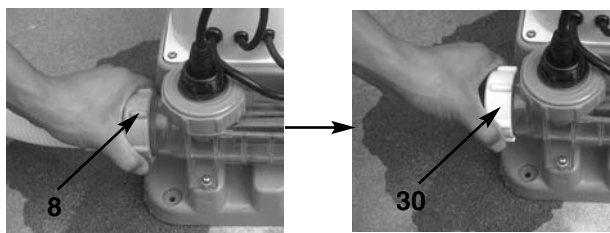
ELECTROLYTIC CELL CLEANING

The electrolytic cell **(13)** has a self cleaning function incorporated into the electronic control's programming. In most cases this self cleaning action will keep the cell working at optimum efficiency. If the pool water is hard (high mineral content) the cell may require periodic manual cleaning. To maintain maximum performance, we recommend that you open and visually inspect the electrolytic cell **(13)** once every month.
The following steps provide instructions on how to clean your cell.
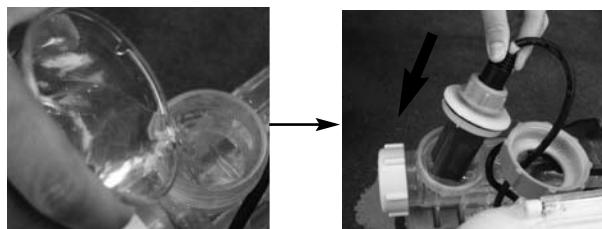
MAINTENANCE (continued)

1. Switch off the unit, unplug the power cord from the electrical socket.
2. Grasp a plunger valve handle. Turn the handle counter-clockwise, push down until it stops and then turn it clockwise until the plastic protruding notch anchor is in the "0/I" position. Repeat for the second plunger valve. This prevents the water from flowing out of the pool.
3. Disconnect the hose with nut **(8)** from the Saltwater System, and assemble the cell cover **(30)** at the side of the cell.

4. In a counter-clockwise motion, unscrew the collar of the copper electrode **(14)** and remove it from the electrolytic cell **(13)**. Lift up the copper electrode.
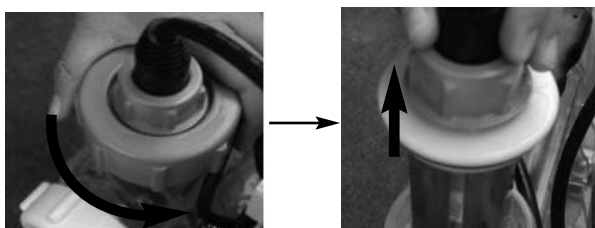
5. Pour kitchen grade vinegar into the cell to immerse the titanium plates. Then put the copper electrode back in the cell, soak them for about one hour until no colored areas remain.

6. Open one side of the cell cover **(30)**, drain and properly dispose of the vinegar. Connect the hose which goes from the pool to the cell. Flush the cell with the pool water.

7. Reverse steps 3, 4, 5 and 6 to reconnect the electrolytic cell.

SAVE THESE INSTRUCTIONS

MAINTENANCE

CLEANING OR REPLACING FILTER CARTRIDGES

It is recommended that the filter cartridge be replaced at least every 2 weeks.

1. Make sure the unit is turned off, and disconnect the power cord from the electrical outlet.

2. Grasp a plunger valve handle. Turn the handle counter-clockwise, push down until it stops and then turn it clockwise until the plastic protruding notch anchor is in the "0/1" position. Repeat for the second plunger valve. This prevents the water from flowing out of the pool.

3. Gently turn both air release valves **(1 & 7)** once or twice in a counter-clockwise direction. The housing cover can now be easily removed.

4. In a counter-clockwise direction remove the filter housing collar **(3)**. Place it in a safe location.

5. Remove the housing cover **(4)**.

6. Now remove the used filter cartridge.

7. Examine the inside of the filter housing.

8. If dirt or sediment is located on the bottom of the housing then:

   A. In a counter-clockwise motion gently unscrew and remove the sediment valve **(1)** located at the bottom of the housing. Place it in a safe place.

   B. With a bucket of water or a garden hose pour water into the housing flushing out the sediment.

   C. Screw back the sediment valve **(1)** in a gentle clockwise motion. Do not over-tighten.

9. Place a new cartridge filter in the housing.

10. Return the housing cover **(4)** to its installed position and in a clockwise direction rescrew the housing collar **(3)** onto the filter housing.

11. Turn both plunger valve handles in a counter-clockwise direction, pull up until they stop, and then turn them clockwise until the metal protruding notch anchor is in the "0/1" position.

12. Reconnect the power cord.

13. Turn on the unit.

14. When the trapped air has escaped through the air release valves gently retighten the valves **(1 & 7)** in a clockwise direction.

MAINTENANCE

English   **133**

MAINTENANCE

MAINTENANCE (continued)

INTEX® COPPER   TEST STRIPS (PACKED WITH THE PRODUCT)

The Copper Ion Test Strips can be used to test the copper ion concentration in the water.

Directions and Use
1. Dip the entire strip into the water for 3 seconds, then remove it
2. Hold the strip level for 15 seconds. Do not shake excess water from the strip.
3. Now compare the copper ion strip pad to the color chart on the packaging label.

INTEX® 3-WAY TEST STRIPS (PACKED WITH THE PRODUCT)

The 3-Way Test Strips can test the "Free Chlorine", "pH", and "Total Alkalinity" levels at the same time. We recommend that you test the water chemistry weekly, and maintain the chlorine concentration at 0.4-1.5 ppm.

Directions and Use
1. Dip the entire strip into the water and remove immediately.
2. Hold the strip level for 15 seconds. Do not shake excess water from the strip.
3. Now compare the strip pad to the color chart on the packaging label. If necessary, adjust the chemical level in the pool water. It is very important, to use the proper technique when testing the water's chemical level. Read and follow the written strip instructions carefully.

LONG TERM STORAGE

1. Disconnect the power cord from the electrical outlet.
2. After the pool is completely empty, disconnect the Saltwater System from the hoses by reversing the installation instructions.
3. Air-dry the unit before you store it. This might be a good time to visually inspect and clean the electrolytic cell.
4. Store the unit and accessories in a dry place. The temperature should be controlled, between 32 degrees Fahrenheit (0 degrees Celsius) and 97 degrees Fahrenheit (36 degrees Celsius).
5. The original package can be used for storage.

POOL MAINTENANCE & CHEMICAL DEFINITIONS

Preferred Water Chemistry Reading			
	Minimum	Ideal	Maximum
Copper Ions	0	0.1 - 0.2 ppm	0.2 ppm
Free Chlorine	0	0.4 - 1.5 ppm	3.0 ppm
Combined Chlorine	0	0 ppm	0.2 ppm
pH	7.2	7.4 - 7.6	7.8
Total Alkalinity	100 ppm	100 - 140 ppm	140 ppm
Calcium Hardness	150 ppm	200 - 400 ppm	500 - 1000 ppm
Stabilizer (Cyanuric Acid)	10 ppm	30 - 50 ppm	100 ppm

HCLO - A very effective killer of algae and bacteria known as hypochlorous acid.

Free Chlorine - Is the sanitizer (HCLO) present in pool water.

Combined Chlorine - Is formed by the reaction of free Chlorine with ammonia wastes.
Result if too high - Sharp chlorinous odor, eye irritation.

pH - A value that indicates how acidic or basic a solution is.
Result if too low - Corroded metals, eye & skin irritation, destruction of total alkalinity.
Result if too high - Scale formation, cloudy water, shorter filter runs, eye & skin irritation, poor Chlorine efficiency.

Total Alkalinity - Indicates the degree of the water's resistance to change in pH. It determines the speed and ease of pH change, so always adjust total alkalinity before adjusting the pH level.
Result if too low - Corroded metals, eye & skin irritation. Low alkalinity will cause the pH to be unstable. Any chemical added to the water will have an affect on pH.
Result if too high - Scale formation, cloudy water, eye & skin irritation, poor Chlorine efficiency.

Calcium Hardness - Refers to the amount of calcium and magnesium dissolved in the water.
Result if too high - Scale will form and will cause the water to become cloudy.

Stabilizer - (Cyanuric Acid) Stabilizers extend the life of Chlorine in swimming pools.

- Do not add pool chemicals directly to the skimmer. This may damage the cell.
- Maintaining a high salt and sanitizer levels above recommended range can contribute to corrosion of pool equipment.
- Check the expiry date of the test kit as the test results may be inaccurate if the kit is used after that date.
- If, due to heavy pool usage, it is required to increase the sanitizer level, then use a chemical based on Trichloro-s-triazinetrione or sodium dichloro-s-triazinetrione dihydrate.

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
FILTER MOTOR FAILS TO START	• The motor is not plugged in. • Switch is not turn on. • The GFCI circuit breaker is tripped. • Motor too hot and overload protection is shut off.	• Filter cord must be plugged into a 3 wire outlet that is protected by a Class A Ground Fault Circuit Interrupter, or RCD. • Reset circuit breaker. If circuit breaker trips repeatedly, your electrical system may have a defect. Turn off circuit breaker and call an electrician to correct the problem. • Let motor cool down.
FILTER DOESN'T CLEAN POOL	• Improper sanitizer or pH levels. • Filter cartridge is dirty. • Damaged cartridge. • Excessively dirty pool. • The strainer screen is restricting the water flow.	• Adjust the sanitizer and pH level. Consult your local swimming pool supply stores. • Clean or replace cartridge. • Check the cartridge for holes. Replace if damaged. • Operate the filter for longer periods. • Clean the strainer screen at the inlet.
FILTER DOESN'T PUMP WATER OR FLOW IS VERY SLOW	• Clogged inlet or discharge. • An air leak on the intake line. • Scale or buildup on cartridge. • Excessively dirty pool. • Dirty filter cartridge.	• Clear any obstructions in the intake hose by discharging it inside pool wall. • Tighten hose nuts, check hoses for damage, check pool water level. • Replace cartridge. • Clean cartridge more often. • Clean inside the plunger valve. • Pull valve handle to full upright position.
PUMP DOESN'T WORK	• Low water level. • Strainer screen plugged up. • An air leak on the intake hose. • An air lock inside the cartridge chamber and motor chamber. • Service light on.	• Fill pool to correct water level. • Clean strainer screens at pool inlet. • Tighten hose nuts, check hose for damage. • Clear any sticks or leaves in the intake hose. • Turn and pull valve handle to full upright position. • Unscrew two air release valve on the chamber to fullfill water. • Contact Intex Service Center.
TOP COVER LEAKING	• O-ring missing. • Cover is not tight. • Filter cartridge is dirty.	• Remove cover & check for O-ring. • Tighten cover (Manually). • Replace or clean cartridge.
HOSE LEAKING	• Hose nuts are not well-fitted.	• Tighten or reinstall hose nut.
AIR LOCK	• There's air trapped in the pump housing and inlet hose. • The inlet and outlet hoses connection are reversed.	• Open air release valves, lift and lower the inlet hose until water starts to flow out of the valve, then close it. • The lower position of pool outlet connects to filter pump water inlet. The upper position of pool inlet connects to filter pump water outlet.

TROUBLESHOOTING GUIDE

SAVE THESE INSTRUCTIONS

TROUBLESHOOTING GUIDE (continued)

PROBLEM	CAUSE	SOLUTION
INSUFFICIENT CHLORINE	• Insufficient operating hours of the Saltwater System. • The salt level in the pool water is less than 2000ppm. This is insufficient. • Chlorine loss due to intense sunlight exposure. • The bather load has increased. • Clogged or dirty electrolytic cell.	• Increase the daily Saltwater System operating time. See "Operating Instructions". • Check the salt level with the Test Kit. Adjust as needed. See "Salt & Pool Water Volumes". • Use a pool cover when the pool is not in use and/or when the unit is operating. • Increase the daily Saltwater System operating time. See "Operating Instructions". • Remove the cell for inspection, clean it if necessary. See "Maintenance".
INSUFFICIENT COPPER ION LEVEL	• Insufficient operating hours. • The PH is too high. • The bather load has increased. • Clogged or dirty copper electrode. • Copper electrode defective.	• Increase operating time per day. See "Operating Instructions". • Use PH decrease chemical to adjust, contact your local pool chemical store. • Increase the operating time per day. See "Operating Instructions". • Remove the cell for inspection, clean it if necessary. See "Maintenance". • Contact Intex Service Center.
POOL IS STAINED	• High copper ion concentration.	• Drain about 20% of the pool water and add fresh water to decrease the copper ion concentration below 0.2ppm. • Add aluminum sulfate: 1000 liters water need around 2g (1000 gals need 0.27 ounce) or aluminum potassium sulfate: 1000 liters water need around 3g (1000 gals need 0.4 ounce) to pool. • Use a lemon based cleaning product (preferably containing citric acid). Don't scrub with aggressive cleaning products because this might etch the underlying surface.
WHITE FLAKES IN THE WATER	• Excessive calcium hardness is present in pool water.	• Drain about 20 to 25% of the pool water and add fresh water to decrease the calcium hardness. Inspect the electrolytic cell for scale buildup. Clean the electrolytic cell if necessary.
NO LED DISPLAY	• No power supply. • RCD/GFCI has not reseted. • A power fuse has blown. • LED failure. • Incorrect switching, press two buttons (and) together.	• Plug the cell cord firmly into the cell housing receptacle. • Reset the RCD/GFCI. • Contact Intex Service Center. • Contact Intex Service Center. • Shut down and turn on the power again, re-set the time. See "Operating Instructions".
GREEN HAIR	• High copper ion concentration.	• Drain about 20% of the pool water and add fresh water to decrease the copper ion concentration below 0.2ppm. • Add aluminum sulfate: 1000 liters water need around 2g (1000 gals need 0.27 ounce) or aluminum potassium sulfate: 1000 liters water need around 3g (1000 gals need 0.4 ounce) to pool. • Use 'Ultra-Swim' shampoo, or shampoo containing chelating agents.

IMPORTANT

If you continue to experience difficulty, please contact our Consumer Service Department for assistance. See back cover for contact information.

TROUBLESHOOTING GUIDE

SAVE THESE INSTRUCTIONS

TROUBLESHOOTING GUIDE (continued)

LED PANEL CODE	PROBLEM	SOLUTION
LED Panel Code Flash & Alarm On (**NOTE**: Always turn off the power before cleaning and servicing).		
[90]	**1**. Circulation line is blocked.	• If your unit has plunger valves, ensure that they are open. • Clear your filter cartridge and cell from debris and dirt. See "Maintenance". • Release all trapped air in the circulation line. See the filter pump manual.
	2. Incorrect inlet and outlet hose direction.	• Check the direction of the inlet and the outlet hose. Reverse the hoses if necessary. See "Set Up Instructions".
	3. Incorrectly installed flow sensor conduit.	• Check that the arrow on the flow sensor conduit, points in the same direction as the one on the cell. Reverse the flow sensor conduit if necessary.
	4. Scale on the flow sensor.	• Clean the flow sensor, paying special attention to the hinge. See "Maintenance".
	5. Flow sensor cord is loose.	• Plug the flow sensor firmly into the flow sensor receptacle.
	6. Inner timer confliction between filter pump and saltwater system.	• Reset both timers on the filter pump and saltwater system.See "Boost Cycle".
	7. Flow sensor failure.	• Contact Intex Service Center.
[91]	**1**. Dirt or scale on titanium plates.	• Remove the electrolytic cell for inspection. Clean it if necessary. See "Maintenance".
	2. Low salt level / No salt.	• Add salt. See "Salt & Pool Water Volumes".
	3. Electrolytic cell cord is loose.	• Ensure that the cell cord is plugged firmly into the cell housing receptacle.
	4. Possible electrolytic cell failure.	• Contact Intex Service Center. Replace the cell if needed.
[92]	**1**. High salt level.	• Partially drain the pool and refill it with fresh water. See "Salt & Pool Water Volumes".
[blank]	**1**. Display and all lights are off - the system does not power up.	• Household voltage is too high or too low ($\pm$ 20%). Check the voltage is within the range stated on the device housing. • Contact Intex Service Center.

SAVE THESE INSTRUCTIONS

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SAFETY GUIDELINES

GENERAL AQUATIC SAFETY

Water recreation is both fun and therapeutic. However, it involves inherent risks of injury and death. To reduce your risk of injury, read and follow all product, package and package insert warnings and instructions. Remember, however, that product warnings, instructions and safety guidelines cover some common risks of water recreation, but do not cover all risks and dangers.

For additional safeguards, also familiarize yourself with the following general guidelines as well as guidelines provided by nationally recognized Safety Organizations:

- Demand constant supervision. A competent adult should be appointed as a "lifeguard" or water watcher, especially when children are in and around the pool.
- Learn to swim.
- Take the time to learn CPR and first aid.
- Instruct anyone who is supervising pool users about potential pool hazards and about the use of protective devices such as locked doors, barriers, etc.
- Instruct all pool users, including children what to do in case of an emergency.
- Always use common sense and good judgement when enjoying any water activity.
- Supervise, supervise, supervise.

For additional information on safety, please visit
- **The Association of Pool and Spa Professionals: The Sensible Way to Enjoy Your Aboveground/Onground Swimming Pool   www.nspi.org**
- **American Academy of Pediatrics: Pool Safety for Children www.aap.org**
- **Red Cross   www.redcross.org**
- **Safe Kids   www.safekids.org**
- **Home Safety Council: Safety Guide   www.homesafetycouncil.org**
- **Toy Industry Association: Toy Safety   www.toy-tia.org**

SAFETY IN YOUR POOL

Safe swimming depends on constant attention to the rules. The "NO DIVING" sign within this manual can be posted near your pool to help keep everyone alert to the danger. You may also wish to copy and laminate the sign for protection from the elements.

SAVE THESE INSTRUCTIONS

LIMITED WARRANTY

Your Krystal Clear Saltwater System® has been manufactured using the highest quality materials and workmanship. All Intex products have been inspected and found free of defects prior to leaving the factory. This Limited Warranty applies only to the Krystal Clear Saltwater System® and accessories listed below.

The provisions of this Limited Warranty apply only to the original purchaser and is not transferable. This Limited Warranty is valid for the period noted below from the date of the initial retail purchase. Keep your original sales receipt with this manual, as proof of purchase will be required and must accompany warranty claims or the Limited Warranty is invalid.

> Krystal Clear Saltwater System® Warranty – 2 Years
> Hoses, Plunger Valves & Fittings Warranty – 180 days

If a manufacturing defect is found within the periods noted above, please contact the appropriate Intex Service Center listed in this manual. The Service Center will determine the validity of the claim. If the Service Center directs you to return the product, please carefully package the product and send with shipping and insurance prepaid to the Service Center. Upon receipt of the returned product, the Intex Service Center will inspect the item and determine the validity of the claim. If the provisions of this warranty cover the item, the item will be repaired or replaced at no charge.

Any and all disputes regarding the provisions of this Limited Warranty shall be brought before an informal dispute settlement board and unless and until the provisions of these paragraphs are carried forth, no civil action may be instituted. The methods and procedures of this settlement board shall be subject to the rules and regulations set forth by the Federal Trade Commission (F.T.C.). IMPLIED WARRANTIES ARE LIMITED TO THE TERMS OF THIS WARRANTY AND IN NO EVENT SHALL INTEX, THEIR AUTHORIZED AGENTS OR EMPLOYEES BE LIABLE TO THE BUYER OR ANY OTHER PARTY FOR DIRECT OR CONSEQUENTIAL DAMAGES OR LIABILITIES. Some states, or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Limited Warranty does not apply if the products are subject to negligence, abnormal use or operation, accident, improper operation, improper voltage or current contrary to operating instructions, or to damage by circumstances beyond Intex's control, including but not limited to, ordinary wear and tear and damage caused by exposure to fire, flood, freezing, rain, or other external environmental forces. This Limited Warranty applies only to those parts and components sold by Intex. The Limited Warranty does not cover unauthorized alterations, repairs or disassembly by anyone other than Intex Service Center personnel.

DO NOT GO BACK TO THE PLACE OF PURCHASE FOR RETURN OR REPLACEMENT. IF YOU ARE MISSING PARTS OR NEED ASSISTANCE, PLEASE CALL US TOLL-FREE (FOR U.S. AND CANADIAN RESIDENTS): 1-800-234-6839 OR VISIT OUR WEBSITE: WWW.INTEXSTORE.COM.

Proof of Purchase must accompany all returns or the warranty claim will be invalid.

SAVE THESE INSTRUCTIONS

COUNTRIES/REGIONS	SERVICE CENTER LOCATIONS
• UNITED STATES • CANADA	**INTEX RECREATION CORP.** 1665 Hughes Way Long Beach, CA 90801 Tel: 1-800-234-6839 Fax: 310-549-2900 Website: www.intexcorp.com (U.S./Canada only) Consumer Service Hours: 8:30 am to 5:00 pm Pacific Time, Mon. thru Fʀɪ. only.
• MEXICO	**KAY INTERNACIONAL, S.A. DE C.V.** SAN JERONIMO # 550- INT.501 Y 502. COL. JARDINES DEL PEDREGAL. C.P. 01900 MÉXICO D.F. Tel: 01-800-347-4020 (Collect Call) Tel: 55-9172-8035 Fax: 55-9172-8047 E-mail: servicenter@kayinternacional.com Website: www.intexmexico.com.mx
• PANAMA • PARAGUAY • ECUADOR • HONDURAS • EL SALVADOR • NICARAGUA	**SUPRO MUNDIAL S.A./** **PRODUCTOS SUPERIORES S.A.** Boulevard Andrews, Albrook, Panama, Rep. of Panama Tel: 507-300-3800 Fax: 507-300-3813 E-mail: suproadmin@supropanama.com
• COSTA RICA • DOMINICAN REPUBLIC • GUATEMALA • COLOMBIA • VENEZUELA	**CENTURY USA, LLC** 4731 W. Atlantic Ave., Suite B-3 Delray Beach, FL 33445, USA Tel: 561-495-0648 Fax: 561-495-4782 E-mail: sales@centuryusa.com
• MIDDLE EAST REGION REGION	**FIRST GROUP INTERNATIONAL** AL MOOSA GROUP BUILDING, 1ST FLOOR, OFFICE 102 & 103, UMM HURAIR ROAD, KARAMA, DUBAI, UAE TEL: 00971-4-800INTEX(46839) / +971-4-3373322 FAX: 00971-4-3375115 E-mail: intex@firstgroupinternational.com. Website: www.firstgroupinternational.com
• ASIA	**INTEX DEVELOPMENT CO. LTD.** 9th Floor, Dah Sing Financial Centre 108 Gloucester Road, Wanchai, Hong Kong Tel: 852-28270000 Fax: 852-23118200 E-mail: xmservicesupport@intexcorp.com.cn Website: www.intexdevelopment.com

For answers to most frequently asked questions, please visit **www.intexcorp.com.**
Non U.S. Residents, please visit **www.intexdevelopment.com.**

SAVE THESE INSTRUCTIONS

English

For Residents of the U.S. & Canada:

INTEX RECREATION CORP.
Attn: Consumer Service
1665 Hughes Way
Long Beach, CA 90801
Phone: 1-800-234-6839
Fax: (310) 549-2900

Consumer Service Hours:
8:30 am to 5:00 pm Pacific time
Monday thru Friday only
Website: www.intexcorp.com

For Residents outside of the U.S. and Canada:
Please refer to the Service Center Locations

INTEX®