OWNER'S MANUAL

2015-6332
2016-02-09

103
CD

IMPORTANT SAFETY RULES
Read, Understand, and Follow all Instructions Carefully before Installing and using this Product.

Krystal Clear™ Deluxe Saltwater System (salt in pool) & Filter Pump

Model 8111 (Model 8110 + Model 51)

For illustrative purposes only.

To find out more about additonal Intex products, please visit our website.

INTEX®

IMPORTANT!
DO NOT RETURN PRODUCT TO STORE

To purchase parts and accessories or to obtain non-technical assistance,
Visit www.intexcorp.com

For technical assistance and missing parts call us toll-free (for U.S. and Canadian Residents):
1-800-234-6839
Monday through Friday, 8:30am to 5:00pm Pacific Time

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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.
- 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.
- Do not bury electrical cord. Locate 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.
- Assembly and disassembly by adults only.
- 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 pool to prevent a child from climbing on pump to access the pool.
- Children must stay away from this product and electrical cord(s).
- Do not operate this product when pool is occupied.
- Never use the pool if indicated chlorine level is more than 3ppm.
- Always unplug this product from the electrical outlet before removing, cleaning, servicing or making any adjustment to the product.
- 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.

Follow all aspects of the local and National Electrical Code(s) when installing the Krystal Clear™ Deluxe Saltwater System (salt in pool) & Filter Pump Model 8111.

SAVE THESE INSTRUCTIONS

KRYSTAL CLEAR™ DELUXE SALTWATER SYSTEM (SALT IN POOL) & FILTER PUMP MODEL 8111

110 – 120 V~, 60 Hz, 2.5 A
THERMALLY PROTECTED
WEATHERPROOF ENCLOSURE
CSA ENCLOSURE 3
DOUBLE INSULATED AND GROUNDED
FOR USE WITH SWIMMING POOLS ONLY.

⚠ CAUTION

FOR CONTINUED PROTECTION AGAINST POSSIBLE ELECTRIC SHOCK,
USE ONLY IDENTICAL REPLACEMENT PARTS WHEN SERVICING.

⚠ IMPORTANT

READ THE LABEL AND OWNER'S MANUAL BEFORE USING.

KRYSTAL CLEAR™ DELUXE SALTWATER SYSTEM (SALT IN POOL) & FILTER PUMP MODEL 8111

CONTROLS BACTERIA AND ALGAE in Storable Swimming pool Waters.
Domestic.
A Maximum of 55,000 L (14,530 gal) of water can be treated with one Krystal Clear™ Deluxe Saltwater System (salt in pool) & Filter Pump Model 8111.
Maximum output of hypochlorous acid equivalent to 0.225 kg (0.495 lb) of free available chlorine per day.
For swimming pools, a minimum of 1 ppm of free available chlorine must be maintained.
READ THE LABEL AND OPERATING MANUAL BEFORE USING.
KEEP OUT OF REACH OF CHILDREN.
REGISTRATION NO. 28191 *PEST CONTROL PRODUCTS ACT.*
Registrant: Intex Trading (Hong Kong) Ltd., 9th floor Dah Sing Financial Center, 108 Gloucester Road, Wanchai, Hong Kong
Canadian Agent: The Canadian Group, 430 Signet Drive Suite A, Toronto, Ontario M9L2T6, Canada 1-800-234-6839

⚠ WARNING

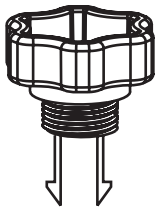
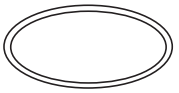
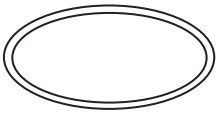
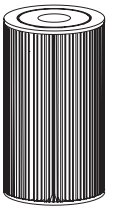
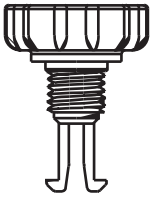
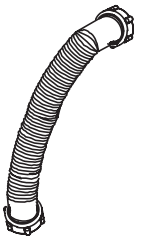
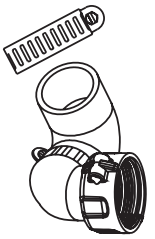
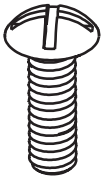
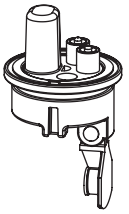
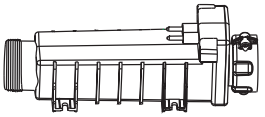
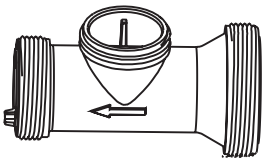
Operating Krystal Clear™ Deluxe Saltwater System (salt in pool) & Filter Pump Model 8111 without water flow through the cell can cause a build up of flammable gases which can result in FIRE OR EXPLOSION.

⚠ WARNING

RISK OF ELECTRIC SHOCK.
CONNECT ONLY TO GROUNDING TYPE RECEPTACLE PROTECTED BY A CLASS A GROUND FAULT CIRCUIT INTERRUPTER (GFCI).

LED	DEFINITIONS
88	Start-up
90	Low Water Flow / No Flow
91	Low Salt Level
92	High Salt Level
93	Operating Process Finished

PARTS LIST

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

NOTE: Drawings for illustration purpose only. May not reflect actual product. Not to scale.

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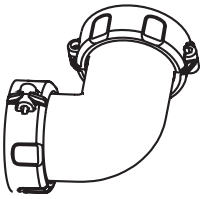
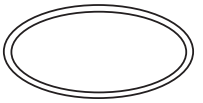
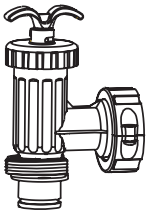
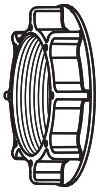
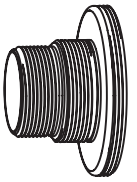
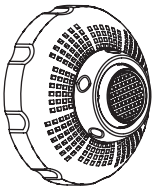
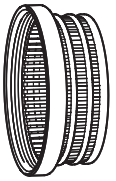
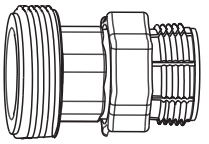
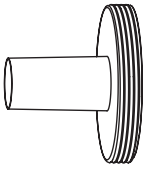
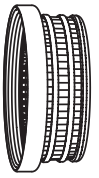
16 	17 	18 
19 	20 	21 
22 	23 	24 
25 	26 	27  * Optional
28  * Optional	29  * Optional	30  * Optional

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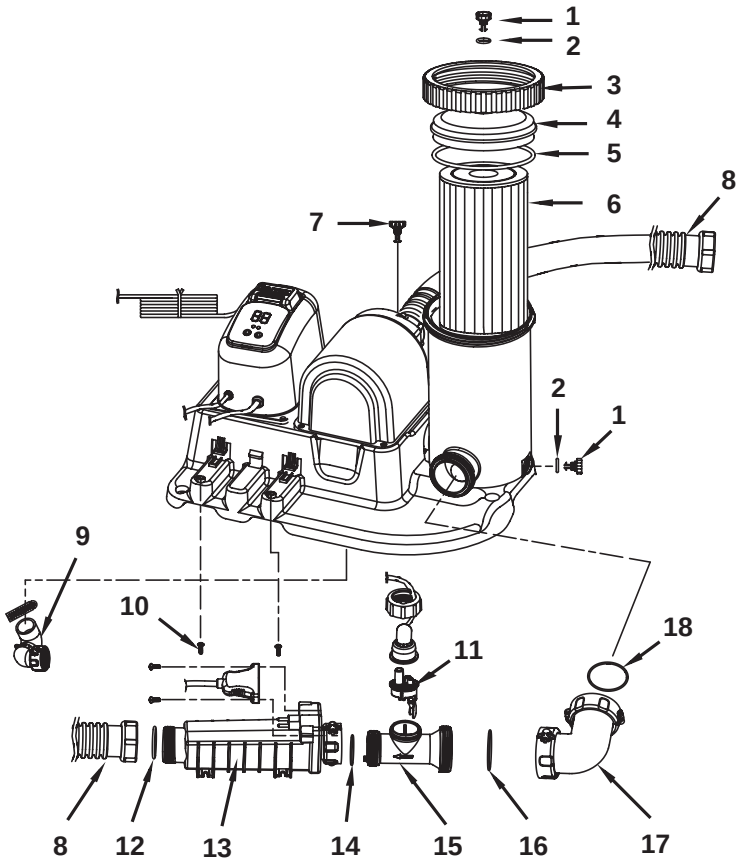
PARTS REFERENCE

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



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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.

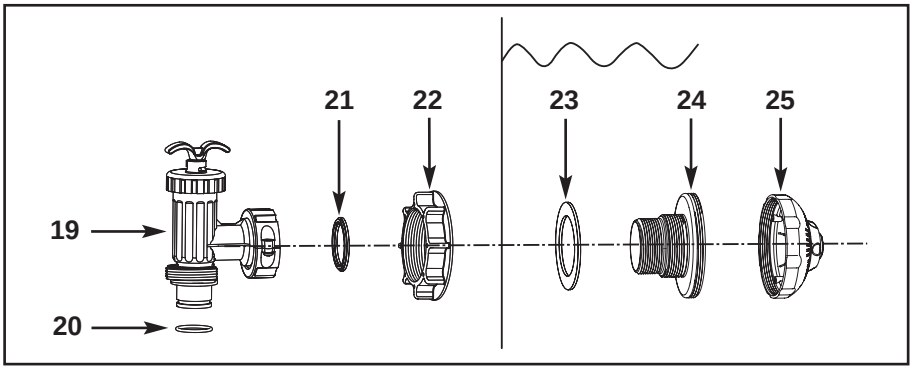
PARTS REFERENCE (continued)

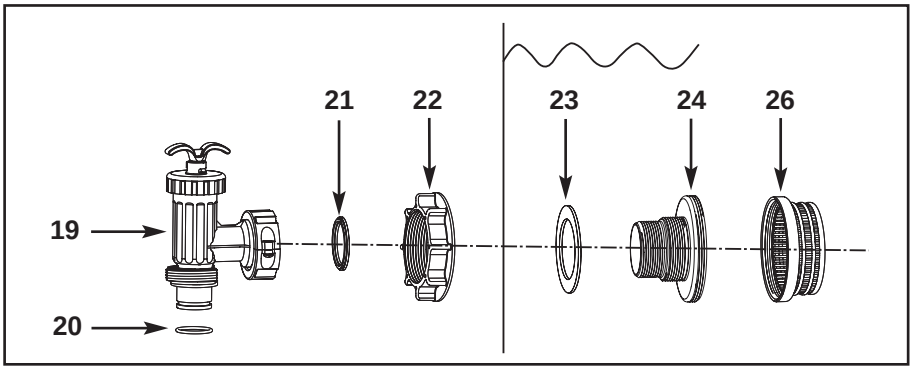
Before assembling your product, please take a few minutes to check the contents and become familiar with all the parts.

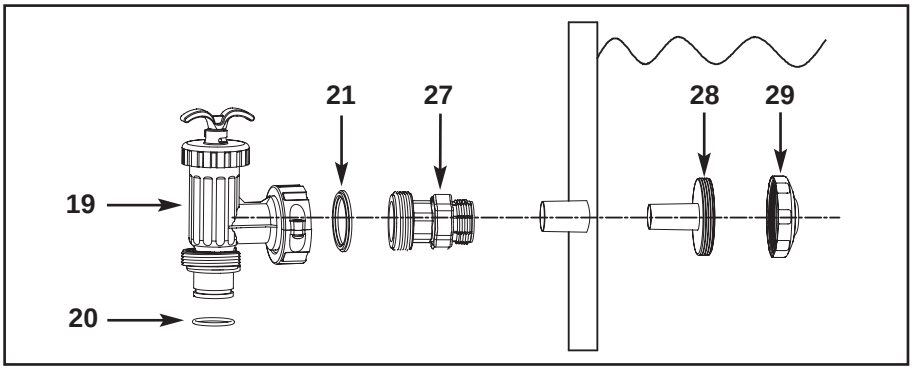
REF. NO.	DESCRIPTION	QTY.	SPARE PART NO.
1	AIR RELEASE VALVE/SEDIMENT RELEASE VALVE	2	10460
2	VALVE O-RING	2	10264
3	THREADED FILTER HOUSING COLLAR	1	10491
4	FILTER HOUSING COVER	1	10490
5	FILTER HOUSING O-RING	1	10492
6	FILTER CARTRIDGE (59905)	1	
7	AIR RELEASE VALVE B (WITH O-RING)	1	10725
8	PUMP HOSE WITH NUTS	2	10493
9	WATER TRANSFER HOSE (WITH COLLAR AND 2 HOSE CLAMPS)	1	10726
10	SCREW	2	10713
11	FLOW SENSOR	1	11143
12	O-RING A	1	10712
13	ELECTROLYTIC CELL WITH 2 SCREWS (O-RING A INCLUDED)	1	10888
14	O-RING B	1	10715
15	FLOW SENSOR CONDUIT (O-RING B & C INCLUDED)	1	10887
16	O-RING C	1	10717
17	ANGLE JOINT (O-RING D INCLUDED)	1	10724
18	O-RING D	1	10743

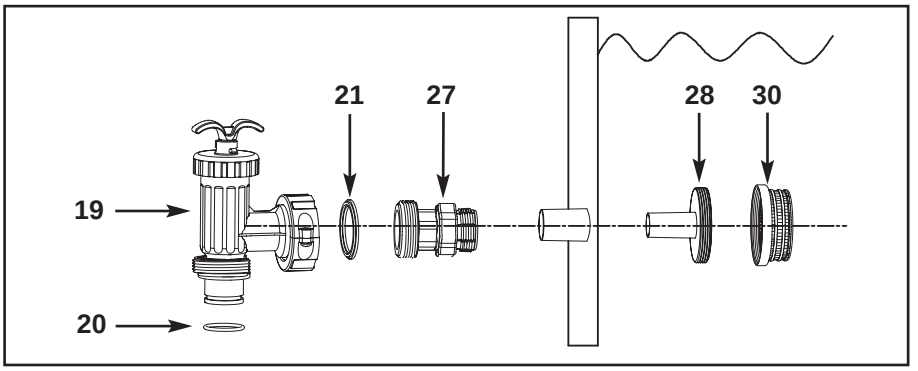
PARTS REFERENCE (continued)

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









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REF. NO.			DESCRIPTION	QTY.	SPARE PART NO.
SMALL AGP	LARGE AGP	COMMON			
		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	10744
	25		ADJUSTABLE POOL INLET NOZZLE	1	11074
	26		STRAINER GRID	1	10253
27			ADAPTOR B (OPTIONAL)	2	10722
28			STRAINER CONNECTOR (OPTIONAL)	2	11070
29			POOL INLET NOZZLE (OPTIONAL)	1	11071
30			STRAINER GRID (OPTIONAL)	1	11072

(103CD) MODEL 8111 (MODEL 8110 + MODEL 51) DELUXE SALTWATER SYSTEM (SALT IN POOL) & FILTER PUMP ENGLISH 7.5" X 10.5" PANTONE 295U 12/25/2007

HOW SANITIZER IS GENERATED

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. This pool water is passed through the saltwater system's electrolytic cell to produce HOCL which is dissolved instantly in the water. The HOCL instantly starts to destroy bacteria, algae and oxidizes other organic materials.

Key Saltwater System Parts:

- **Power Supply**
  The power supply converts AC electrical current to a low voltage DC current. This is required by the cell to perform the electrolysis that creates chlorine.
- **Electrolytic Cell (with Titanium Plates)**
  The electrolytic cell contains bipolar titanium electrodes which perform the electrolysis and produce liquid sanitizer (HOCL) when energized with DC electricity. Sanitizer is generated when pool water containing salt passes through the cell. The sanitizer production can be varied by changing the number of hours the saltwater system is operating each day. The saltwater system has a built-in self cleaning cycle that operates every twenty hours without interrupting sanitizer production.
- **Flow Sensor**
  The flow sensor protects the electrolytic cell and ensures there is adequate water flowing through the cell. When the water flow drops below minimum flow rate, the electrolytic cell will automatically shut down to protect the titanium plates. A safety buzzer will sound and the LED display panel will show a signal code (see "LED Code Chart") indicating the problem.
- **Electronic Control Station**
  The electronic control station contains an LED display panel and a set of pushbuttons to program the saltwater system operating hours. It also monitors the different parameters such as salt level, water flow and the electrolytic cell activity. If any deviation from the norm occurs then a buzzer will sound and the LED display panel will show a signal code (see "LED Code Chart") indicating the problem.

PRODUCT SPECIFICATIONS

Power:	110 - 120 Volt
Amperage:	Saltwater System - 2.5 A; Filter Pump - 2.6 A
Wattage:	Saltwater System - 250 W; Filter Pump - 280 W
Ideal Salt Level:	3000 ppm (parts per million)
Maximum Sanitizer Output/hour:	24 grams/hour
Limited Warranty:	2 Years (see "Limited Warranty")

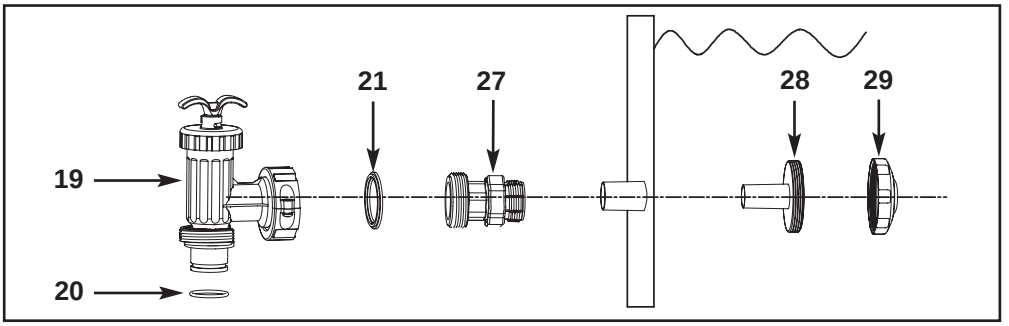
STRAINER & PLUNGER VALVE SET-UP

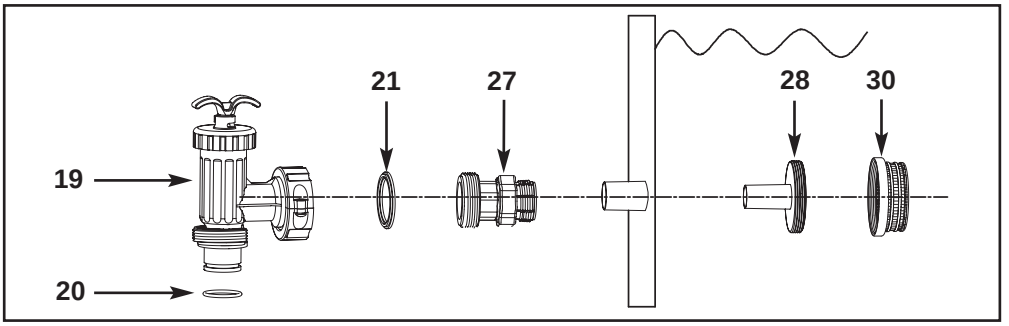
IMPORTANT

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 Set Up (small AGP)

The strainer grid prevents large objects from jamming and/or damaging the filter pump and 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 inflatable top ring, install the strainer, nozzle and plunger valve before inflating the pool liner top ring.





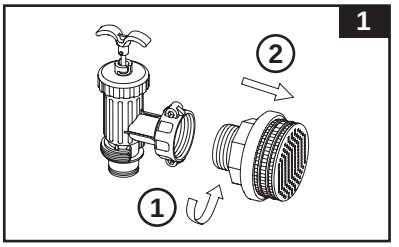
1. Grasp the strainer and plunger valve mechanism.
2. In a counter-clockwise motion unscrew plunger valve union from the threaded strainer connector **(24)**. Be careful not to lose the step rubber washer **(21)**.
3. Grasp the plunger valve assembly. Make sure the step washer **(21)** is in place. Connect adaptor B **(27)** 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 **(28 & 30)** into the lower position of protruding hose connection, and the nozzle **(28 & 29)** into the upper position of protruding hose connection. Adaptor B **(27)** fits over the strainer connection **(28)** 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.

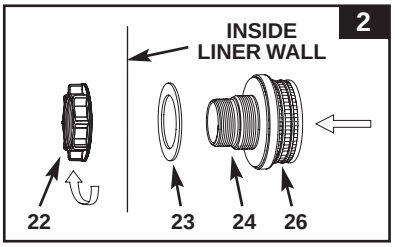
STRAINER & PLUNGER VALVE SET-UP (continued)

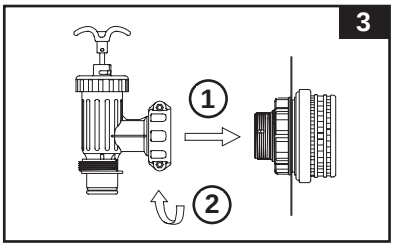
Strainer & Plunger Valve Set Up (large AGP)

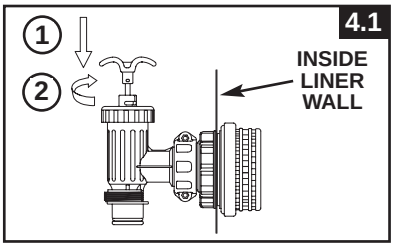
The strainer grid prevents large objects from jamming and/or damaging the filter pump and the plunger valve assembly prevents water from flowing into the filter pump while the filter cartridge is being placed or cleaned. If your pool has inflatable top ring, install the strainer, nozzle and plunger valve before inflating the pool liner top ring.

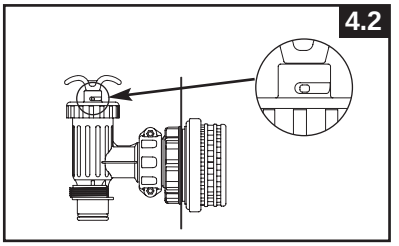
1. Grasp the strainer and plunger valve mechanism.
2. In a counter-clockwise motion unscrew plunger valve union from the threaded strainer connector **(24).** Be careful not to lose the step rubber washer **(21)**. Place the plunger valve on the ground in a safe place **(see drawing 1)**.
3. In a counter-clockwise motion unscrew the strainer nut **(22)** from the threaded connector **(24).** Leave the flat washer **(23)** on the connector **(24)**.
4. Install the 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.
5. 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)**. Before assembly, lubricate the threads with a petroleum jelly.
6. Finger tighten the strainer grid **(26)** 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 3)**.
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 **(see drawings 4.1 & 4.2)**.











NOZZLE & PLUNGER VALVE SET-UP

1. Grasp the nozzle 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)**. Place the plunger valve on the ground in a safe place **(see drawing 5)**.
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 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. 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)**. Before assembly, lubricate the threads with a petroleum jelly.
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 **(see drawings 8.1 & 8.2)**.
10. Adjust the direction of nozzle head pointing away from the pool outlet for a better circulation result **(see drawing 9)**.
11. The pool liner is now ready to fill with water. Consult the above-ground-pool owner's manual for filling instructions.

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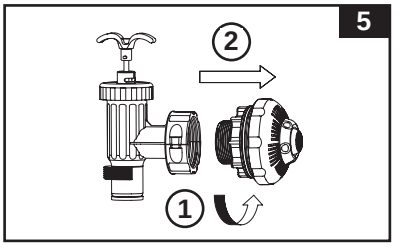

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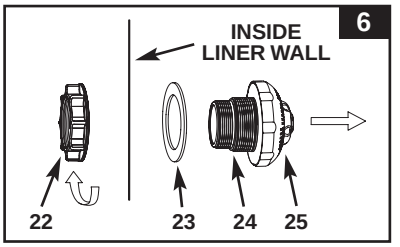

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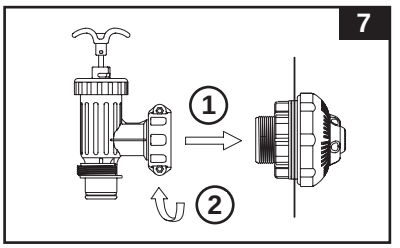

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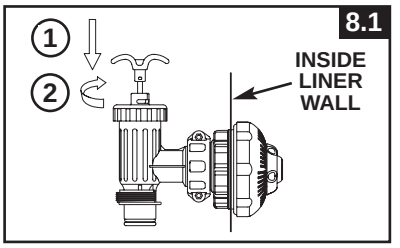

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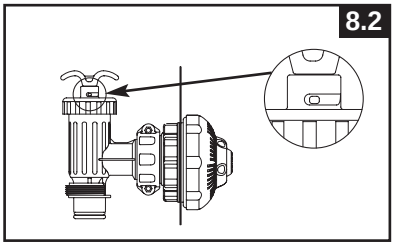

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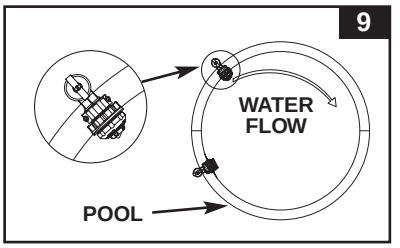


SAVE THESE INSTRUCTIONS

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. The hose connection is made at the bottom of the plunger valve assembly. Use the hose nut to attach the hose.
9. Connect the 2nd 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.

SALT & POOL WATER VOLUMES

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), but it will take longer 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) with 3000 ppm being optimal.

A too low salt level will reduce the efficiency of the saltwater system and result in low sanitizer production. A high salt level may begin to generate a salty taste to your pool water (this may occur at a salt level above 3500-4000 ppm). Too high of a salt level may damage the power supply and cause corrosion to pool metal fixtures and accessories. The following "salt table" shows the quantity of salt to use. 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.

How to Add or Remove Salt

Adding Salt

1. Depress the ON button on the filter pump switch to circulate pool water.
2. Keep the saltwater system "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. To avoid clogging the filter, do not add 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 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 need to lower the salt concentration. The only way to lower the salt concentration is to partially drain the pool and refill 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

INTEX POOLS SALT TABLE

This table shows how much salt to use to achieve the desired 3000 ppm salt level and how much will be needed to maintain this level if it drops below this desired 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 (3000 ppm)		Salt Needed when Low Salt Detected (CODE "91")	
		(Gals)	(Liters)	(Lbs)	(Kgs)	(Lbs)	(Kgs)
INTEX ABOVE GROUND POOLS (AGP's)							
EASY SET® POOL	457cm x 91cm (15' x 36")	2822	10681	65	30	20	10
	457cm x 107cm (15' x 42")	3284	12430	80	35	20	10
	457cm x 122cm (15' x 48")	3736	14141	95	45	20	10
	488cm x 107cm (16' x 42")	3754	14209	95	45	20	10
	488cm x 122cm (16' x 48")	4273	16173	110	50	30	15
	549cm x 107cm (18' x 42")	4786	18115	120	55	30	15
	549cm x 122cm (18' x 48")	5455	20647	135	60	30	15
	549cm x 132cm (18' x 52")	5894	22309	150	65	40	20
CIRCULAR METAL FRAME POOL	457cm x 91cm (15' x 36")	3282	12422	80	35	20	10
	457cm x 107cm (15' x 42")	3861	14614	100	45	20	10
	457cm x 122cm (15' x 48")	4440	16805	110	50	30	15
	488cm x 122cm (16' x 48")	5061	19156	125	55	30	15
	488cm x 132cm (16' x 52")	5501	20821	135	60	30	15
	549cm x 122cm (18' x 48")	6423	24311	160	75	40	20
	549cm x 132cm (18' x 52")	6981	26423	175	80	40	20
	732cm x 122cm (24' x 48")	11483	43462	290	130	75	35
	732cm x 132cm (24' x 52")	12481	47241	310	140	85	40
ULTRA FRAME POOL	488cm x 122cm (16' x 48")	5061	19156	125	55	30	15
	549cm x 132cm (18' x 52")	6981	26423	175	80	40	20
SEQUOIA SPIRIT™ POOL SET	508cm x 124cm (16'8" x 49")	5061	19156	125	55	30	15
	549cm x 135cm (18'8" x 53")	6981	26423	175	80	40	20
OVAL FRAME POOL	549cm x 305cm x 107cm (18' x 10' x 42")	2885	10920	75	35	20	10
	610cm x 366cm x 122cm (20' x 12' x 48")	4393	16628	110	50	30	15
	732cm x 366cm x 122cm (24' x 12' x 48")	5407	20465	132	60	35	15
	853cm x 366cm x 122cm (28' x 12' x 48")	6420	24300	150	70	40	20
RECT. ULTRA FRAME POOL	549cm x 274cm x 132cm (18' x 9' x 52")	4545	17203	115	50	30	15
	732cm x 366cm x 132cm (24' x 12' x 52")	8403	31805	210	95	60	30
	975cm x 488cm x 132cm (32' x 16' x 52")	14364	54368	365	165	95	45

INTEX POOLS OPERATING TIME TABLE

This table shows the operating time required for normal use of the Saltwater System with above ground pools.

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)	37- 42°C (99 - 108°F)
INTEX ABOVE GROUND POOLS (AGP's)							
EASY SET® POOL	457cm x 91cm (15' x 36")	2822	10681	1	3	3	3
	457cm x 107cm (15' x 42")	3284	12430	1	3	3	3
	457cm x 122cm (15' x 48")	3736	14141	2	3	3	3
	488cm x 107cm (16' x 42")	3754	14209	2	3	3	3
	488cm x 122cm (16' x 48")	4273	16173	2	3	3	4
	549cm x 107cm (18' x 42")	4786	18115	3	4	5	6
	549cm x 122cm (18' x 48")	5455	20647	3	4	5	6
	549cm x 132cm (18' x 52")	5894	22309	3	5	6	7
CIRCULAR METAL FRAME POOL	457cm x 91cm (15' x 36")	3282	12422	1	3	3	3
	457cm x 107cm (15' x 42")	3861	14614	2	3	3	3
	457cm x 122cm (15' x 48")	4440	16805	3	3	3	4
	488cm x 122cm (16' x 48")	5061	19156	3	4	5	6
	488cm x 132cm (16' x 52")	5501	20821	3	4	5	6
	549cm x 122cm (18' x 48")	6423	24311	4	5	6	7
	549cm x 132cm (18' x 52")	6981	26423	4	5	6	7
	732cm x 122cm (24' x 48")	11483	43462	7	9	10	11
	732cm x 132cm (24' x 52")	12481	47241	8	10	11	12
ULTRA FRAME POOL	488cm x 122cm (16' x 48")	5061	19156	3	4	5	6
	549cm x 132cm (18' x 52")	6981	26423	4	5	6	7
SEQUOIA SPIRIT™ POOL SET	508cm x 124cm (16'8" x 49")	5061	19156	3	4	5	6
	549cm x 135cm (18'8" x 53")	6981	26423	4	5	6	7
OVAL FRAME POOL	549cm x 305cm x 107cm (18' x 10' x 42")	2885	10920	1	3	3	3
	610cm x 366cm x 122cm (20' x 12' x 48")	4393	16628	2	4	5	6
	610cm x 366cm x 132cm (20' x 12' x 52")	4738	17935	3	4	5	6
	732cm x 366cm x 122cm (24' x 12' x 48")	5407	20465	3	4	5	6
	732cm x 366cm x 132cm (24' x 12' x 52")	5832	22073	3	5	6	7
	853cm x 366cm x 122cm (28' x 12' x 48")	6420	24300	4	5	6	7
	853cm x 366cm x 132cm (28' x 12' x 52")	6925	26211	4	5	6	7
	975cm x 366cm x 122cm (32' x 12' x 48")	7434	28137	5	6	7	8
	1,219cm x 366cm x 122cm (40' x 12' x 48")	9461	35809	6	8	9	10
RECT. ULTRA FRAME POOL	549cm x 274cm x 132cm (18' x 9' x 52")	4545	17203	3	4	5	6
	732cm x 366cm x 122cm (24' x 12' x 48")	7757	29359	5	6	7	8
	732cm x 366cm x 132cm (24' x 12' x 52")	8403	31805	5	6	7	8
	975cm x 488cm x 132cm (32' x 16' x 52")	14364	54368	9	11	12	12

NON-INTEX POOLS

Non-Intex Pools Salt Table

Water Capacity (Calculated at 90% for Frame Pool and 80% for Easy Set & Oval Pool)		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

Salt Calculation for 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

Non-Intex Pools Operating Time Table

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)	37 - 42°C (99 - 108°F)
2000	7500	1	2	2	3
4000	15000	2	3	3	3
6000	22500	4	5	6	7
8000	30000	5	6	7	8
10000	37500	6	8	9	10
12000	45500	9	10	11	12
14000	53000	10	11	12	12

FILTER PUMP OPERATION

1. Make sure the unit switch is "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 2nd plunger valve. This opens the valves to allow 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 the switch "ON". The filter pump is now filtering the water.
6. A yellow LED Light on the control panel will light up, that indicates the filter pump is running.

SALTWATER SYSTEM OPERATION

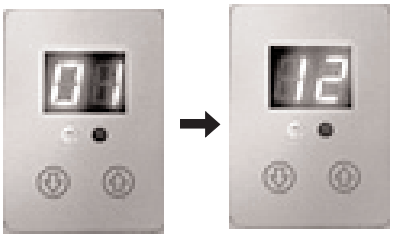
After the salt is dissolved, but before starting the sanitizer generation be sure that:

- The system is connected to a grounding type receptacle protected by a ground-fault circuit interrupter (GFCI).
- The filter pump operates several minutes before starting the saltwater system (This removes air pockets and debris in the water hoses).
- No air is trapped in any of the hoses. Follow "Filter Pump Operation" above to release any trapped air.

1. With the Filter Pump turned "ON" and operating. Code "88" appears on the electronic control station's LED indicating the unit is in a Stand-By Mode, this is normal.

2. Unlock keypad controls:
Press and hold ▼ button for 2 seconds until you hear a short "beep", then press and hold ▲ button for another 2 seconds until you hear the second short "beep", LED flashes "00". This procedure unlocks the keypad control buttons.

3. Set saltwater system operating hours:
Increase the scheduled number of hours of operation by pressing ▲ button, or reduce by pressing ▼ button. See "Operating Time Table" for pool size and required operating hours. Press ▲ button to select hours required, press ▼ if too many hours were selected. The built-in timer will now operate for the number of hours selected at the same time each day.



(1 to 12 hours max per cycle)

NOTE: The saltwater system will not operate if the filter pump is not operating.

4. Re-lock keypad controls:
With the proper hour value showing, press and hold ▼ button for 2 seconds until you hear a long "beep", then press and hold ▲ button for another 2 seconds until you hear the second long "beep". A green LED light on the control panel will light up within a few minutes, which indicates the saltwater system starting sanitizer production. **Filter pump can be run alone without the saltwater system,** with the proper hour value showing, press and hold both ▼ and ▲ buttons for 2 seconds until you hear a long "beep". By locking the control buttons into this setting you will prevent unauthorized changing of the operating cycle.

NOTE: If you forget to Re-lock the keypad controls, the salt system will automatically lock the keypad controls and start working 1 minute later.

SALTWATER SYSTEM OPERATION (continued)

5. Operating hours can be re-adjusted if necessary. Follow steps 2 thru 4.

6. The scheduled operating hours displayed on the LED readout will decrease to zero as the unit operates. The LED shows "hours remaining" in the daily operating cycle.

7. The green and yellow LED lights on the control panel will disappear when the cycle has ended. The system will go into a "Stand-By Mode" with the LED flashing "93". The system automatically goes into a "Power Saving Mode" and will automatically turn itself back on in 24 hours to continue its daily sanitizer production.

8. The LED will be become blank after 1 hour indicating the Saltwater system is dormant (Power Saving Mode) waiting for the next startup cycle to begin. Press any button (or) to view the last LED code.

SPECIAL NOTES

- Always use a test strip to test the sanitizer level before entering or using the pool. Standard chlorine test strips will measure the active sanitizer level in the pool water. If the test strip indicated chlorine level is too high, **wait until the indicated chlorine level drops below 3 ppm before using the pool or operating the saltwater system again.**

IMPORTANT

NEVER use the pool if indicated chlorine level is more than 3 ppm. Do not operate saltwater system while the pool is in use or occupied.

- If a power outage occurs or the power cord is unplugged then the saltwater system operating hours will have to be reset.

⚠ WARNING

Heavy pool usage, and higher temperatures may require higher chlorine output to maintain proper free available chlorine residuals.

ALARM CODES

No sanitizer production will occur if "Low Water Flow", "Low Salt Level" or "High Salt Level" conditions are detected. If any of these conditions occur then the Saltwater System will sound an alarm that indicates sanitizer production has stopped. A buzzer will sound and a Code (see below) will keep flashing on the LED for 1 hour. The buzzer and flashing light will stop after one hour and the Saltwater System will go to Power Saving Mode. If this occurs then press any button (or) to view the code of the original problem so that it can be corrected.
Turn off the power of the unit and follow the solutions below to solve the problem. Turn on the unit again by following the "Operating Instructions".

Code	Cause	Remedy	Flashing	Buzzer
 Low Water Flow or No Flow	**1**. Circulation line blocked.	• Ensure the plunger valves are opened (if any). • Ensure your filter cartridge, cell are clear from debris and dirt. See "Maintenance". • Release all trapped air in the circulation line. See Filter Pump Manual.	Yes	Yes
	2. Incorrect inlet and outlet hose direction.	• Check for the direction of water inlet and water outlet hose. Reverse the hoses if necessary. See "Set Up Instructions".		
	3. Scale on the flow sensor.	• Ensure the flow sensor (especially the hinge) is clean. See "Maintenance".		
	4. Flow sensor cord is loose.	• Check for flow sensor loose or not connected properly. Plug the flow sensor firmly into the flow sensor receptacle.		
	5. Flow sensor failure.	• Contact Intex Service Center for replacement.		
 Low Salt Level	**1**. Dirt or scale on titanium plates.	• Remove the electrolytic cell for inspection and clean it if necessary. See "Maintenance".	Yes	Yes
	2. Low salt level / no salt.	• Add salt. See "Salt & Pool Water Volumes".		
	3. Possible electrolytic cell failure.	• Contact Intex Service Center. Replace the cell if needed.		
 High Salt Level	**1**. High salt level.	• Partially drain the pool and refill with fresh water. See "Salt & Pool Water Volumes".	Yes	Yes

- The expected life expectancy of the electrolytic cell is 3,000 hours under normal use conditions.
- When replacing the cell, only use replacement cells having a label that clearly states that it is a replacement cell for the Krystal Clear™ Deluxe Saltwater System (salt in pool) & Filter Pump Model 8111.

LED CODE CHART

LED Reading	Definitions
88	Stand-By Mode (Start-up)
00	Zero Operating Hours
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.

MAINTENANCE

⚠ WARNING

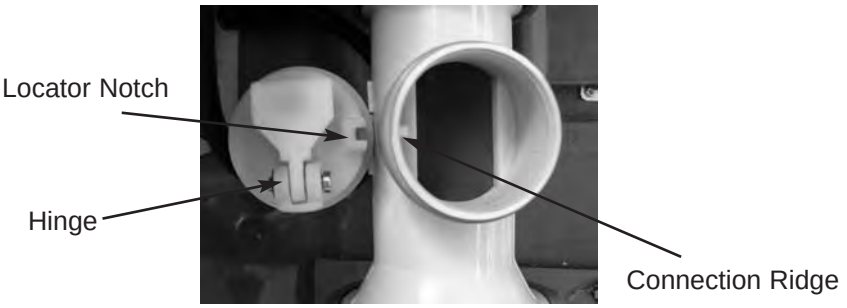
Always unplug this product from the electrical outlet before removing, cleaning, servicing or making any adjustment to the product.

IMPORTANT

Close plunger valves 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.



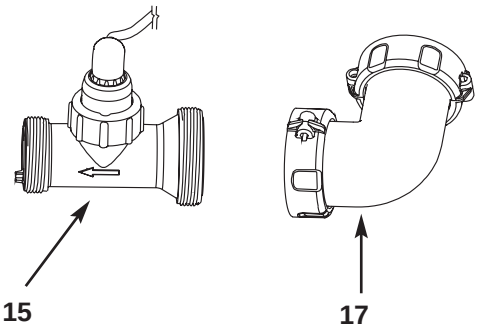
3. If flushing does not remove the deposits, use a plastic brush (do not use a metal brush) to clean the surface and the hinge if necessary.
4. After the flow sensor has been inspected and cleaned, align the locator notch on the flow sensor to the connection ridge in the conduit, turn the collar in a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

ELECTROLYTIC CELL CLEANING

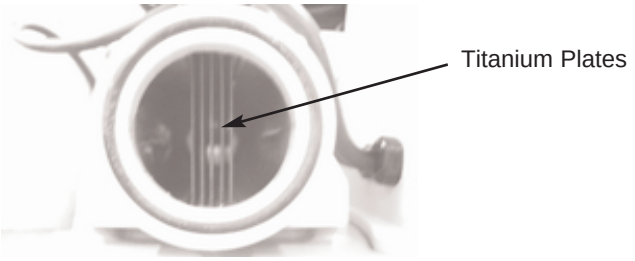
The electrolytic cell **(13)** has a self cleaning function incorporated into the electronic control's programming. In most cases this self cleaning action will keep the cell working at optimum efficiency. If the pool water is hard (high mineral content) the cell may require periodic manual cleaning. Follow the cleaning instructions following. To maintain maximum performance, it is recommended that you open and visually inspect the electrolytic cell **(13)** every 2-3 months.

VISUAL INSPECTION AND CLEANING

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 2nd plunger valve. This prevents the water from flowing out of the pool.
3. Disconnect the water return (to the pool) hose from the saltwater system outlet. Disconnect angle joint **(17)** from the filter housing and flow sensor conduit **(15)**.



4. Look inside the electrolytic cell **(13)** inspect for scale formation (light colored crusty or flaky deposits) on the titanium plates. If no deposits and debris are visible reinstall the cell and hose.



5. If deposits and debris are seen on the titanium plates, use a high pressure garden hose and try to flush them off. Only flush from the **direction of water inlet** to avoid damaging the flow sensor. Do **not** use any metal tool as this will scratch the coating off the plates. Note that a buildup on the cell indicates that there is an unusually high calcium level in the pool. If this is not corrected, you have to frequently check and clean the cell. To avoid this, always keep your pool chemistry at the recommended levels. See "Pool Maintenance & Chemical Definitions" for reference.

VISUAL INSPECTION AND CLEANING (continued)

6. If flushing does not remove the deposits on the plate then disconnect the cell from the base by removing the 2 mounting screws **(10)**. Disconnect the flow sensor from the top of the cell and unplug the electrolytic cell cord. Soak the cell in a vinegar solution (condiment) for 2-3 hours and then flush with high pressure water from the garden hose.
7. Reconnect electrolytic cell reversing steps 3, 4, 5 and 7. (Reset the Saltwater System's operating hours)
   NOTE: After cleaning the operating hours have to be reset.

FILTER CARTRIDGE CLEANING OR REPLACEMENT

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 2nd plunger valve. This prevents the water from flowing out of the pool.
3. Gently turn both air release valves **(1 & 7)** 1-2 turns in a counter-clockwise direction. This will allow the housing cover to 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. Remove the "OLD" 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.** In a gentle clockwise motion return the sediment valve **(1)** to its installed location. 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 the unit "ON".
14. When the trapped air has escaped through the air release valves gently retighten the valves **(1 & 7)** in a clockwise direction.

LONG TERM STORAGE

1. Disconnect power cord from electrical outlet.
2. After pool is emptied of all water, disconnect the Saltwater System/Filter Pump from the pool hose, reversing the installation instructions.
3. Air-dry the unit before storage (It may be prudent to visually inspect and clean the electrolytic cell at this time).
4. Store the unit and accessories in a dry, temperature controlled, between 32 degrees Fahrenheit (0 degrees Celsius) and 104 degrees Fahrenheit (40 degrees Celsius) storage location.
5. The original packing carton can be used for storage.

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

3-Way Test Strips can test the sanitizer level as "Free Chlorine", "pH", and "Total Alkalinity" levels at the same time. Directions and Use:

1. Dip entire strip into water and remove immediately.
2. Hold strip level for 15 seconds (do not shake excess water from strip).
3. Compare free chlorine, pH and total alkalinity strip pad to the color chart on packaging label. Adjust pool water as necessary. Proper technique is important for water testing. Be sure to read and follow the written strip instructions.

POOL MAINTENANCE & CHEMICAL DEFINITIONS

Parameters	Recommended range
Free available chlorine	1.0 - 3.0 ppm
pH	7.2 - 7.8
Total alkalinity	100 - 120 ppm
Calcium hardness	200 - 300 ppm
Stabilizer (cyanuric acid)	30 - 100 ppm

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

Free Chlorine -	Is the sanitizer (HOCL) present in pool water.
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 high salt and sanitizer levels above recommended range can contribute to corrosion of pool equipment.
- Check the expiry date of the test kit as test results may be inaccurate if used after that date.
- If additional sanitizer is required due to heavy bather load, use a pool sanitizer based on Trichloro-s-triazinetrione or sodium dichloro-s-triazinetrione dihydrate.

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	REMEDY
FILTER MOTOR FAILS TO START	• Not plugged in. • Fuse box needs checking. • GFCI circuit breaker tripped.	• 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. • Motor too hot and overload protection shut motor off. Let motor cool down.
FILTER DOESN'T CLEAN POOL	• Improper sanitizer or pH levels. • Filter cartridge dirty. • Cartridge damaged. • Excessively dirty pool. • Strainer screen restricting flow.	• Adjust sanitizer and pH level. Consult your local swimming pool supply stores. • Clean or replace cartridge. • Check for holes in cartridge. Replace if damaged. • Operate filter for longer periods. • Clean strainer screen at pool wall inlet.
FILTER DOESN'T PUMP WATER OR FLOW IS VERY SLOW	• Inlet/discharge clogged. • Air leak on intake line. • Scale or buildup on cartridge. • Excessively dirty pool. • Filter cartridge dirty.	• Look for obstructions in intake hose or discharge hose inside pool wall. • Tighten hose nuts, check hoses for damage, check pool water level. • Replace cartridge. • Clean cartridge more often. • Clean inside plunger valve. • Pull valve handle to full upright position.
PUMP DOESN'T WORK	• Low water level. • Strainer screen plugged up. • Air leak on intake hose. • Faulty motor or impeller jammed. • Air lock inside cartridge chamber.	• Fill pool to correct water level. • Clean strainer screens at pool inlet. • Tighten hose nuts, check hose for damage. • Check & clear any sticks or leaves in intake to pump. • Turn & pull valve handle to full upright position.
TOP COVER LEAKING	• O-ring missing. • Cover not tight. • Filter cartridge dirty.	• Remove cover & check for O-ring. • Tighten cover (Manually). • Replace or clean cartridge.
HOSE LEAKING	• Hose nuts.	• Tighten/reinstall hose nut.

TROUBLESHOOTING GUIDE (continued)

PROBLEM	CAUSE	REMEDY
AIR LOCK	• Pump housing and inlet hose air trapped. • Inlet and outlet hoses connection reversed.	• 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. • Lower position of pool outlet connect to filter pump water inlet, upper position of pool inlet connect to filter pump water outlet.
INSUFFICIENT SANITIZER	• Insufficient operating hours of the Saltwater System. • Insufficient (Less than 2000ppm) salt level in pool water. • Sanitizer loss due to intense sunlight exposure. • The bather load has increased. • Clogged or dirty electrolytic cell.	• Increase the Saltwater System operating time per day. See "Operating Instructions". • Test the Salt Level with Test Kit, and adjust as needed. See "Salt & Pool Water Volumes". • Use Pool Cover when the pool is not use and/or when the unit is operating. • Increase the Saltwater System operating time per day. See "Operating Instructions". • Remove the cell for inspection, clean it if necessary. See "Maintenance".
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. Visually inspect the electrolytic cell for scale build-up and clean the electrolytic cell if necessary.
NO LED DISPLAY	• Power Saving Mode. • No power supply. • Electrolytic cell cord is loose. • Power fuse blown. • LED failure.	• Press any button (or) to view the last LED code. • Check for power cord loose or not connected properly. • Check to see if cell cord is loose or not connected properly. Ensure the cell cord is plugged firmly into the cell housing receptacle. • Contact Intex Service Center for replacement. • Contact Intex Service Center for replacement.

IMPORTANT

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

TROUBLESHOOTING GUIDE (continued)

LED PANEL CODE	PROBLEM	REMEDY
LED Panel Code Flash & Alarm On (**NOTE**: Always turn off the power before cleaning and servicing).		
CODE 90	**1**. Circulation line is blocked.	• Ensure the plunger valves are opened (if any). • Ensure your filter cartridge and cell are clear from debris and dirt. See "Maintenance". • Release all trapped air in the circulation line. See Filter Pump Manual.
	2. Incorrect inlet and outlet hose direction.	• Check for the direction of water inlet and water outlet hose. Reverse the hoses if necessary. See "Set Up Instructions".
	3. Scale on the flow sensor.	• Ensure the flow sensor (especially the hinge) is clean. See "Maintenance".
	4. Flow sensor cord is loose.	• Check for flow sensor loose or not connected properly. Plug the flow sensor firmly into the flow sensor receptacle.
	5. Flow sensor failure.	• Contact Intex Service Center for replacement.
CODE 91	**1**. Dirt or scale on titanium plates.	• Remove the electrolytic cell for inspection and clean it if necessary. See "Maintenance".
	2. Low salt level / no salt.	• Add salt. See "Salt & Pool Water Volumes".
	3. Possible electrolytic cell failure.	• Contact Intex Service Center. Replace the cell if needed.
CODE 92	**1**. High salt level.	• Partially drain the pool and refill with fresh water. See "Salt & Pool Water Volumes".

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 instances or risk and or danger.

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

- Demand constant supervision.
- Learn to swim.
- Take the time to learn CPR and first aid.
- Instruct anyone who is watching your children about potential pool hazards and about the use of protective devices such as locked doors, barriers, etc.
- Teach 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.

LIMITED WARRANTY

Your Krystal Clear™ Deluxe Saltwater System (salt in pool) & Filter Pump Model 8111 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™ Deluxe Saltwater System (salt in pool) & Filter Pump Model 8111.

The provisions of this Limited Warranty apply only to the original purchaser and is not transferable. This Limited Warranty is valid for a period of two (2) years 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.

If a manufacturing defect is found within this two (2) years period, 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 Krystal Clear™ Deluxe Saltwater System (salt in pool) & Filter Pump Model 8111 is 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.

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

POST THIS WARNING NEAR YOUR POOL

⚠ DANGER

NO DIVING OR JUMPING
SHALLOW WATER

DIVING MAY RESULT IN PERMANENT INJURY OR DEATH

- **Be Safe. Swim with a friend.**
- **Children must be accompanied by an adult.**
- **Don't swim when using alcohol or drugs.**
- **Be familiar with the pool before swimming.**
- **No running, jumping, or horseplay in or around pool.**
- **No glass in pool area.**

TO AVOID SERIOUS INJURY ALL POOL USERS MUST KNOW AND FOLLOW THESE SAFETY RULES.

SAVE THESE INSTRUCTIONS

COUNTRIES/REGIONS	SERVICE CENTER LOCATIONS
• UNITED STATES • CANADA	**INTEX RECREATION CORP.** 14779 Bar Harbor Road Fontana, CA 92336 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 Fri. only.
• MEXICO	**KAY INTERNACIONAL, S.A. DE C.V.** Avenida San Jeronimo #550-5º Piso, 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
• PANAMA • PARAGUAY • ECUADOR • HONDURAS • EL SALVADOR • NICARAGUA	**SUPRO MUNDIAL S.A./** **PRODUCTOS SUPERIORES S.A.** Boulevard Andrews, Albrook, Panama, Rep. of Panama Tel: 507-315-0101 Fax: 507-315-0114 E-mail: suproadmin@supropanama.com
• COSTA RICA • DOMINICAN REPUBLIC • GUATEMALA • COLOMBIA • VENEZUELA • PUERTO RICO	**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	**FIRST GROUP TRADING** Al Moosa Group Building, 1st Floor, Office 102 & 103, UMM Hurair Road, Karama, Dubai, UAE Tel: 00971-4-3373322 Fax: 00971-4-3375115 E-mail: info@firstgrouptrading.com Website: www.firstgrouptrading.com
• ASIA	**INTEX TRADING 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.intextrading.com.

INTEX®

For Residents of the U.S. & Canada:

INTEX RECREATION CORP.
Attn: Consumer Service
14779 Bar Harbor Road
Fontana, CA 92336
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

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