



Factory Direct for Genuine Brand Products
Len Gordon • Spa Builders Systems • Gecko • Aeware
Aqua-Flo • Brett Aqualine . . . and Much More!

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For placing orders,
requesting samples
or product selection
assistance, please contact
our Customer Service
Department Monday
through Friday, Pacific
Standard Time,
7:00 am to 5:00 pm.
Orders may also be faxed
or placed online at
www.AlliedInnovations.com
24-hours a day, 7-days a
week.



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POLICIES AND PROCEDURES

Allied Innovations LLC strives to provide the highest level of service and quality to you. Following are our policies and procedures to better serve you in the future.

MINIMUM ORDER

There is a \$10.00 minimum order requirement. A handling charge of \$2.50 will be applied to all orders below minimum order requirements.

3 EASY WAYS TO PLACE YOUR ORDER

PHONE US!

You may call our Customer Service Department at 702-361-0600 or 800-SPA-PAKS (800-772-7257). Our staff will help you identify what you need or offer suggestions for replacements on obsolete parts. If you need technical assistance, we have experienced repair technicians that can help you with wiring diagrams, technical manuals and any questions you may have.

FAX US!

Our fax number is toll free 866-909-PART (866) 909-7278 or 702-361-0613. Orders will be processed to ship by the next business day. You will receive a return fax confirmation if you request one, or if the item is not in stock.

VISIT US ONLINE!

You can order online at www.AlliedInnovations.com. This gives you the opportunity to see detailed pictures of the items you need. This will also allow you to be able to receive e-mail with tracking numbers after your order ships. Keep track of your orders, part status, and account information on E-commerce. If you do not already have a user ID and password, please call our Customer Service Department to obtain this information. The purchaser assumes all responsibility for accuracy of orders placed online.

NOTE: Although the information published online is accurate at the time of publishing, materials, technical specifications, part numbers, etc., it may change without notice. Dimensional specifications and drawings should be used only for reference.

FREE FREIGHT (Ground Service Only)

No freight charges will be assessed on all replacement part orders of \$150.00 or more (excludes control units, equipment systems, pumps and pump motors). Any COD charges will still be added to the invoice. Freight program is restricted to shipments within the United States.

SHIPPING

All orders will be shipped Fedex ground-COD unless otherwise specified. Shipments are freight on board Las Vegas, NV. All items in stock will ship within 24 hours of placing the order, excluding weekends. You may request a shipper tracking number or COD amount by phone, fax or e-mail. Express services (overnight, 2 day or 3 day) are available.

DROP SHIPMENTS

Allied Innovations LLC will drop ship direct to your customer for non-COD orders. Below minimum fee will be waived. Drop ship information must be complete with company name, address, phone number and contact name. If you purchase parts for export, you are responsible for compliance of laws governing export.



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POLICIES AND PROCEDURES (*continued*)

PRICING

Our pricing is subject to change without notice. We strive to keep the pricing consistent with the published price whenever possible but will make adjustments if the manufacturer or supplier price changes. The pricing in the catalog is shown as List Pricing. You may contact our Customer Service Department for your current multiplier at any time. For current price list updates, please contact the Advertising Department to request a copy to be mailed, faxed or e-mailed.

SPECIAL ORDERS

If you request an item that we do not carry, we will do our best to get it for you. We will inform you of the cost and lead time before processing your order. Special orders are final and cannot be returned.

BACK ORDERS

If your order happens to have a part that is out of stock, you will be informed at the time of order and we will suggest a substitute for you.

LOST OR DAMAGED GOODS (Notifications)

Our responsibility for any shipment ceases when the product is turned over to a common carrier.

Please verify contents and quantity of items on the order upon receiving. Report any discrepancies to us within 15 days.

If concealed loss or damage is discovered, please notify the carrier at once. A concealed damage report must be made within 15-days of the delivery of the shipment.

It is imperative that you retain all packing material & cartons for inspection by the carrier. Without these items your claim may be denied.

RETURNS

All returned product must be authorized for return and in sellable condition. These returns will be subject to a minimum 25% restocking charge, and credit will be applied to your account. Returns for credit will not be accepted 30 days after the invoice date. Contact the Customer Service Department for a Return Merchandise Authorization (RMA) number. The RMA numbers are void after 30 days of their issuance. Please include a copy of the original paperwork with complete documentation regarding the return, and mark the RMA number on the outside of the package to help expedite your return.

DISCLAIMER AND LIMITATION OF LIABILITY

Allied Innovations will hold the shipping liability to Fedex 3-day ground at no additional charge to the customer due to any input errors or incorrect parts shipped. Costs for any premium shipping services requested will be borne by the customer. A written purchase order must be present in order to verify the accuracy of the shipment. The customer agrees that Allied Innovations and its officers and employees shall not be held liable for any damages or loss of profit for information given. This includes technical, troubleshooting or product features either in verbal or written form. Please note, all information written and/or expressed in the policies and procedures are subject to change without notice.



WARRANTY FOR LEN GORDON GENUINE PRODUCTS

Allied Innovations LLC warrants its products to be free from defects in workmanship and material under normal use and conditions for a period of **one year from the date of original manufacture**. Should repair be required by reason of any defect or malfunction during the warranty period, Allied Innovations LLC will repair, or at their discretion, replace this product without charge, subject to verification of the defect or malfunction. If the repair is required after the expiration date of the warranty period, Allied Innovations will repair this product and bill for any necessary replacement parts, shipping and handling.

This warranty is void if: 1) the unit is not installed per the instructions; 2) is connected to improper voltage; 3) is subjected to chemical corrosion; 4) is mechanically or electrically altered in any way; 5) is subjected to immersion in water; 6) contacts show evidence of short circuiting or the unit has been visibly damaged by accident or misuse or which has been damaged by wind, rain, lightning, freezing, or other natural causes; 7) or upon which the serial number or manufacture date has been altered, effaced or removed.

Allied Innovations LLC shall not be liable for any inconvenience, loss of time, or incidental expenses incurred. Allied Innovations LLC shall not be liable for any labor charges associated with the removal or reinstallation of any products returned as defective.

This is the only warranty expressed or implied by Allied Innovations LLC. Warranties implied under state law, including any implied warranty of merchantability or fitness for a particular purpose shall be limited to one year from the date of manufacture.

NON WARRANTY ITEMS

Non-Warranty items will be handled as a Repair Order (RO). Upon receipt of non-warranty part(s), our service department will bench test and write a report of the problem(s) found. You will receive a call from a Technical Service Representative with a quote for the repair before repair is completed. Our labor rates are as follows:

Diagnostic only (no problem found) = \$20.00	First hour = \$60.00
Each additional ½ hour = \$30.00	Replacement of unit = Cost of unit only

The above prices do not include return freight, and are subject to change without notice.

To expedite your return, call Customer Service for an RO number and mark it on the outside of the box and return freight prepaid to: **ALLIED INNOVATIONS LLC** (Attn: Technical Service)
7215 Bermuda Road, Las Vegas, NV 89119

1. Pack the unit in a well-padded, heavy corrugated box. We recommend that you insure the package to avoid lost or damaged product.
2. Include a short description of the problem, as well as company name, contact name, street address where the unit is to be returned as well as a telephone number or e-mail address to call with repair quote.
3. All repairs are warranted for a period of ninety days from date of repair.
4. Repairs will be held up to 90 days. After 60 days, if there is no approval to proceed with repair, the customer will be sent a letter notifying of the status. After 90 days, if there is no response, the product will be scrapped.

TECHNICAL INQUIRIES

For information regarding control operation, copies of control instruction sheets, wiring diagrams or schematics, or installation assistance – call, fax or e-mail our Technical Service Department from 7am to 5pm, Monday – Friday or visit our web site at www.AlliedInnovations.com. We assume that the customer calling has basic electrical skills and is able to use a multi-meter.



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WARRANTY FOR GECKO PRODUCTS

Gecko Alliance warrants that all spa systems, spa packs, keypads and heaters shall be free of defects in workmanship and materials for a period of two(2) years from the date of manufacture plus a six-month (6) grace period.

All Aeware accessories, including in.tune CD players, in.pix CD/DVD players, in.power audio power supplies, in.keys audio keypads, remote controls, in.watch in-house monitoring devices and air.wave blowers are covered by a one-year warranty (18 months from the date of manufacture as displayed on the merchandise, one-year product warranty and a six-month "showroom" grace period).

Additional warranty provisions

Gecko guarantees that products sold by Gecko Alliance are free from defects in workmanship and materials. Gecko's warranty does not cover problems arising from misuse, abuse, neglect, miswiring or improper installation, problems caused by improper or inadequate electrical service, or damage caused by power surges or electrical failure. This warranty is not transferable and replacement or credits are made only to the original purchaser.

Gecko shall not be liable for any incidental, special or consequential costs or damages incurred by the purchaser or others, including without limitation, damages for lost profits, goodwill, interruption of business, or any other injury or damage not expressly covered under this limited warranty. However, this limitation on consequential damages shall not apply to damages for injury to the person.

If any provision contained in this warranty is determined to be invalid or unenforceable, such provisions shall be deemed modified so as to be valid and enforceable to the fullest extent permitted by law.

All returned products that are sent to Allied Innovations will be examined as per the original manufacturer's requirements.

WARRANTY POLICIES FOR OTHER MANUFACTURER'S PRODUCTS

Allied Innovations LLC will honor the original manufacturer's warranty on the products it sells. Allied Innovations LLC assumes no liability for any injury, loss or damage from the improper use of malfunction of any part we sell. Our liability is limited specifically to the replacement of defective parts as provided by the original manufacturer's warranty. All returned products that are sent to Allied Innovations will be examined as per the original manufacturer's requirements. Refer to some of the original manufacturer's individual warranty programs on the following page. Please contact our Customer Service Department at (800) 237-9937 for additional information.



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ORIGINAL MANUFACTURER'S WARRANTY PROGRAMS

VENDOR	WARRANTY
A.O SMITH	-3 years from date of manufacture for plastics -3 years from date of installation for 56 Frame Executive Series and Solar Brushless pumps -2 years from date of installation for 48 Frame Executive Series -1 year from date of installation for all other pumps
AQUA-FLO	-1 year from date on pump sticker
BALBOA	-3 years from date of manufacture (packs, boards, topsides, etc.)
DEL Ozone	-1 year from date of purchase
EMERSON	-12 months from date of installation or 24 months from date of manufacture
GECKO	-24 months from serial number with a 3 month grace period (\$55 for diagnostic of board exceeding 27 months)
GRASSLIN	-1 year from date of purchase
GRID CONTROLS	-1 Year from date of manufacture (If repairable and out of warranty it is a \$10 charge)
HYDROQUIP	-Digital control packs usually have a 2 year warranty from date of purchase -All other equipment such as pneumatic packs, PCB's, and topsides all have a 1 year warranty
INVENSYS	-1 year from date of installation or 18 months from the date of manufacture, whichever is shorter.
ITT / HYDRO AIR	-1 year from date of purchase

VENDOR	WARRANTY
J & J	-5 years from date of purchase for cords -1 year from date of purchase for parts
LAING	-2 years from date of manufacture or 1yr from date of purchase (with proof of purchase)
PENTAIR	-1 year from date of purchase
PRES-AIR-TROL	-1 year from date of manufacture
SIEMENS	-Purchased thru Newark
SUNDANCE	-180 Days from date of purchase, parts only
TECMARK	-15 Months from date of manufacture
THERMCORE	-1 Year from date of manufacture, 18 months for coated elements, 24 months for titanium elements and heaters (60 months corrosion)
VICO	-1 year from date of purchase (same as Pentair)
WATERWAY	-3 Years from date of manufacture for plastics -3 years from date of installation for 56 Frame Executive Series and Solar Brushless pumps -2 years from date of installation for 48 Frame Executive Series -1 year from date of installation for all other pumps

For detailed manufacturer warranty policies, please contact our Customer Service Department.

SPABUILDERS

AP-4 CONTROL



- Universal air switch control replacement
- Most durable, dependable and service friendly unit in the industry today
- Runs the pump(s), blower and light with a 2" full flow heater

Dimensions:



Please Note: 220V Systems Are Neutral Required- 4 Wire Systems

ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 2-SPD	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE (Not Included)
3-70-0339*	120V	20	120V/ 1.5KW	YES	120V Only	N/A	120V	12V	120V	20A INT	15' Pwr, P1, B, L	READY
3-70-0217 **See below	120V/ 240V	30/50	1.5KW/ 5.5KW	YES	120V Only	N/A	120V	12V	120V	N/A	P1, B, L	READY
3-70-0469*	240V/ 4-Wire	30/50	5.5KW	YES	240V Only	240V; 1-SPD	120V	12V	120V	N/A	P1, P2, B, L	READY LG/PAT Only

AP-4 Control Heads - Direct Replacements for Most Pneumatic Controls in the Market

3-70-0525*	120V/ 240V	20/50	1.5/ 5.5KW		120V 2SP	N/A	120V	No Light 120V AUX Hot	120V	240V	P1, B	N/A
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***Limited to Stock On Hand.** **Due to wiring constraints the pump cannot be changed to 220V if a topside is used.

Optional: 70-20-1542 2" Extension legs to raise AP-4 Box (sold separately)

PLEASE NOTE: Specifications on all controls and packs are subject to change.

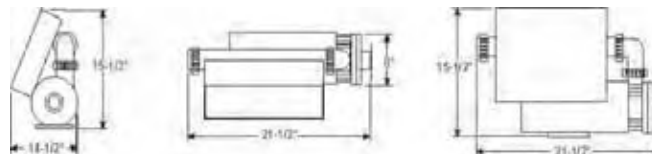
Technical Note: On our AP units, black is wired as high speed for pumps.

AP-4 PACK



- Universal air switch pack replacement
- Replaces most air switch control systems on the market today
- Most durable, dependable and service friendly unit in the industry
- Runs with or without a topside control panel

Dimensions:



Please Note: 220V Systems Are Neutral Required- 4 Wire Systems

ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 2-SPD	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE (Not Included)
3-80-0202*	120V/ 240V	30/50	1.5KW/ 5.5KW	YES	1.5HP/ 120V	N/A	1.0HP/ 120V	12V	120V	N/A	P1, B, L	READY

***Limited to Stock On Hand.**

SPABUILDERS

AP-4 50 HERTZ CONTROLS AND PACKS

AP-4 CONTROL



- Universal air switch control replacement
- Most durable, dependable and service friendly unit in the industry today
- Runs the pump(s), blower and light with a 2" full flow heater

ITEM #	V	MAX SERV	HTR	PUMP 1	PUMP 2	BLOWER	LIGHT	OZ	GFCI	CORDS	TOPSIDE (Not Included)
3-70-0533*	220V 50C	30A	2.5KW	220V	N/A	220V	12V	220V	N/A	P,B,L	LG READY 220V

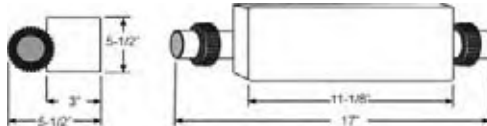
*Limited to Stock On Hand.

AP-100 CONTROL



- Replaces R&R units, PS-1, HT500, CS600, CS800, ET500 and many others
- Compact, user-friendly control to decrease tight installation limitations
- 2" plumbing allows for high water flow

Dimensions:



Please Note: 220V Systems Are Neutral Required- 4 Wire Systems

ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 2-SPD	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOP-SIDE	TIME CLOCK
3-70-0402*	120V	15	120V 1.5KW	N/A	120V	N/A	N/A	12V	120V	15A w/ CORD	15' Pwr, P1	N/A	YES
3-70-0394*	240V	40	240V/ 5.5KW	N/A	240V	N/A	120V	12V	120V	N/A	P1, B, L	N/A	NO

Technical Note: If you are replacing a PS-1 with an AP-100, order 2 pieces: Item #2-05-0039D 2" to 1.5" Heater Tailpieces

*Limited to Stock On Hand.

SPABUILDERS

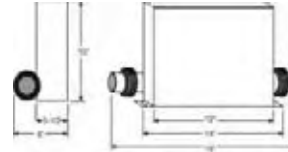
AP-1400 CONTROL



Figure 1

Slightly larger than the AP-4, this unit is a universal "Air Switch" control replacement. This unit runs Pumps, Blower & Light with a 2" full flow heater. It also has Timer / Auto-heat or Thermostat Mode Selector.

Dimensions:



Please Note: 220V Systems Are
Neutral Required- 4 Wire Systems

ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 2-SPD	CIRC PUMP	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE (Not included)
3-70-0392* (Figure 1)	120V/ 240V	30/50	1.5KW/ 5.5KW	YES	120V or 240V	N/A	N/A	120V	12V	120V	N/A	P1, B, L	READY
3-70-0425	240V	60	240V/ 5.5KW	YES	240V	240V; 1-SPD	N/A	120V	12V	120V	50A INT	P1, P2, B, L	READY
AP-1400 Dedicated 2 Pumps with Circulation Pump Option - Direct Replacements for Most Pneumatic Controls in the Market													
3-70-0530*	240V Dedicated	60	5.5 KW Vertical	N/A	240V 1SP	240V 1SP		240V	12V	240V	220V CIRC	P1, P2, B, CP	READY

*Limited to Stock On Hand.

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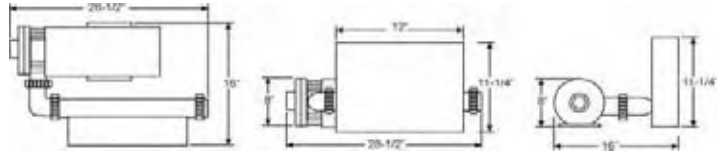
SPABUILDERS

AP-1400 PACK



Slightly larger than AP-4, this unit is a universal "Air Switch" control replacement. This unit runs pump, blower and light with a 2" full flow heater. It also has timer / auto-heat or thermostat mode selector.

Dimensions:



Please Note: 220V Systems Are
Neutral Required- 4 Wire Systems

ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 2-SPD	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE (not included)
3-80-0239	120V/ 240V	30/50	1.5KW/ 5.5KW	YES	1.5HP/ 120V	N/A	1.0HP/ 120V	12V	120V	N/A	P1, B, L	READY
3-80-0203*	240V	60	240V/ 5.5KW	YES	3HP (AF) / 240V	1-SPD 240V	1.0HP/ 120V	12V	120V	50A INT	P1, P2, B, L	READY
3-80-0265*	240V	60	240V/ 5.5KW	YES	1.5HP (AF) / 240V	1-SPD 240V	1.0HP/ 120V	12V	120V	50A INT	P1, P2, B, L	READY

***Limited to Stock On Hand.**

Technical Note:

Question: A customer has given me 2007250027 as a serial number for a Spa Builders Systems piece of equipment, how can I tell what the date code is?

Answer: 20=year 2000, 07=month July, 25=day 25, 0027=counter. All LX/AP series used this format until October 2002. Since then, the letter "S" represents the number "20" (ie. S03=2003).

ALPHA TOPSIDES START IN YEAR 2000

Rule Of Thumb For Circuit Breaker Size & Wire Ampacity Table

If The Ampere Rating Of The Equipment Module Is:	0 TO 16	17 TO 24	25 TO 32	33 TO 40	41 TO 48	49 TO 56	57 TO 64
Then The Ampere Rating Of The Circuit Breaker Required Is:	20	30	40	50	60	70	80
And The Minimum Supply Conductor Ampacity Is:	20	30	40	50	60	70	80

SPABUILDERS SYSTEMS GROUP

LX-10 CONTROL

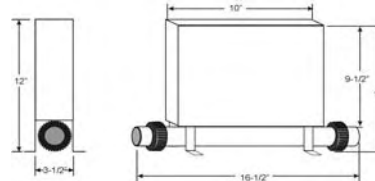


Item #3-00-0139

This unit runs Pump & Light with a 2" full flow heater. It is compact and convertible 110/240V. It includes Digital topside shown. 2 Year Warranty from manufactured date!

Please Note: 220V Systems Are Neutral Required- 4 Wire Systems

Dimensions:



ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 2-SPD	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE (included)
3-70-0351	120V/ 240V	20/40	1.0KW/ 4.0KW	On T.S	120V or 240V	N/A	N/A	12V	120V	N/A	P1, L	3-00-0139

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If you are not receiving our monthly promotions via fax or email, please let us know if you would like to be added to our mailing list.

Technical note: Maximum light voltage/wattage for these systems are 1pc. 12V / 12W incandescent GE912 bulb. Installing a larger wattage bulb or 2 pcs. 12V/12W bulbs voids the warranty & will burn up the power transformer. Call our Technical Department for other possible scenarios / retrofits.

SPA BUILDERS

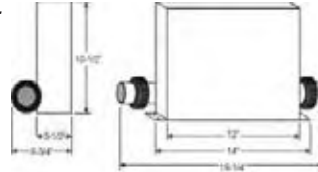
LX-15 CONTROL

Please Note: Special units listed below allow for extended topside distances. These units include a 50' topside and upgraded PCB. 220V Systems Are Neutral Required- 4 Wire Systems.

This under the spa skirt digital control is time tested, dependable and excels in all climates. This unit runs 1 or 2 Pumps, Blower and Light with a 2" full flow heater. It includes a 5 or 6 Button Digital Topside. 2 Year Warranty!



Dimensions:



ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 RDY	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE (Included)
3-70-0352	240V	30/50	5.5KW	ON T.S.	120V/ 240V	1 OR 2-SPD	120V	12V	120V	N/A	P1, P2, B, L	3-00-0205 6 Button
3-70-0467*	240V	30/50	5.5KW	ON T.S.	120V/ 240V	N/A	120V	12V	120V	N/A	P1, B, L	3-00-0286 5 Button; 50'

LX-15 Controls - Direct Replacements for Most Digital Controls in the Market

3-70-0517*	240V	50	5.5KW	N/A	120V 2SP	120V 1SP	120V	12V	120V	N/A	P1, P2, B	3-00-0205 6 Button
3-70-0519* Bottom Heater	240V Dedicated	50	5.5KW	N/A	240V 2SP	240V 1SP	240V	12V	240V	N/A	P1, P2, B	3-00-0205 6 Button

LX-15 Controls with Circulation Pump Option - Direct Replacements for Most Digital Controls in the Market

3-70-0521* Rev 6.15 Software	240V	50	H5.5 KW	120V Circ	240V 1SP	240V 1SP	120V	12V	120V	N/A	P1, P2, B, CP	3-00-0205 6 Button
------------------------------	------	----	---------	-----------	----------	----------	------	-----	------	-----	---------------	--------------------

***Please note:** All LX-15 Controls above are limited to stock on hand.

Technical note: Maximum light voltage/wattage for these systems are 1pc. 12V / 12W incandescent GE912 bulb. Installing a larger wattage bulb or 2 pcs.12V/12W bulbs voids the warranty & will burn up the power transformer. Call our Technical Department for other possible scenarios / retrofits.

If you are unable to locate a part or need additional information, please contact our Technical Service Department at (800)772-7257 or visit our web site at www.AlliedInnovations.com.

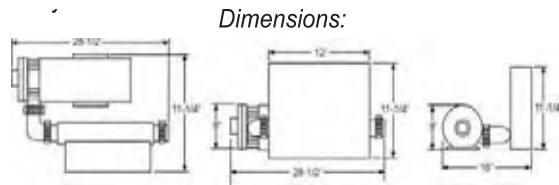
SPABUILDERS

LX-15 PACK



This under the spa skirt digital control is time tested, dependable and excels in all climates. This unit runs 1 or 2 Pumps, Blower and Light with a 2" full flow heater. It includes a 5 or 6 Button Digital Topside. 2 Year Warranty!

Please Note: 220V Systems Are
Neutral Required- 4 Wire Systems



ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 RDY	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE (included)
3-80-0266*	240V	60	5.5KW	ON T.S.	1.5HP/ 120V	1 OR 2-SPD	1.0HP/ 120V	12V	120V	N/A	P1, P2, B, L	3-00-0224 6 Button; 50'

*Limited to stock on hand.



Item #3-00-0224
50' Extended Topsides

Technical note: Maximum light voltage/wattage for these systems are 1pc. 12V / 12W incandescent GE912 bulb. Installing a larger wattage bulb or 2 pcs. 12V/12W bulbs voids the warranty & will burn up the power transformer. Call our Technical Department for other possible scenarios / retrofits.

SPABUILDERS LX-15 OUTDOOR PACK

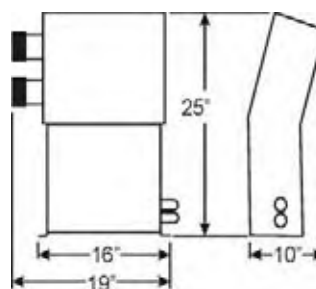


This Digital Control is time tested, dependable and excels in all weather conditions. This unit is made for In-Ground installations where the equipment will be exposed to weather. It can be installed up to 50 feet from the spa. It includes a 5 or 6 button Digital Topside. 2 Year Warranty! 240V Connection (Neutral Required)

Please note the following:

- 220V Systems Are Neutral Required- 4 Wire Systems
- Pumps are not included with this pack.
- Blower included.

Dimensions:



Item #3-00-0286



Item #3-00-0224

ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 RDY	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE (included)
3-80-0269*	240V	50	GAS RDY	ON T.S.	120V or 240V		1.0HP / 240V	12V	120V	N/A	P1, B, L, HTR, PSI	3-00-0286 5 Button; 50'
3-80-0267*	240V	60	GAS RDY	ON T.S.	120V or 240V	1 or 2-SPD	1.0HP / 240V	12V	120V	N/A	P1, P2, B, L, HTR, PSI	3-00-0224 6 Button; 50'

**Limited to Stock On Hand.*

All items above include a 50' cord for the topside.

Technical note: Maximum light voltage/wattage for these systems are 1pc. 12V / 12W incandescent GE912 bulb. Installing a larger wattage bulb or 2 pcs.12V/12W bulbs voids the warranty & will burn up the power transformer. Call our Technical Department for other possible scenarios / retrofits.

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LX-05 / LX-10 / LX-15 Rev 8.01 / 1.31 / 5.31 PCB Jumper Settings

LX-05 JP 1 Jumper Block

- 1-2 Centigrade ON / Fahrenheit OFF
- 3-4 Pressure Switch ON / Water Level Sensor OFF
- 5-6 One Speed Pump ON / Two Speed Pump OFF

LX-10 JP 1 Jumper Block

- 1-2 110V 15A Logic ON / 220V 40A Logic OFF
- 3-4 Centigrade ON / Fahrenheit OFF

LX-15 JP 1 Jumper Block

- 1-2 110V 20A Logic ON / 220V 50A Logic OFF
50A will allow heater to stay ON unless both pumps are on high speed (2 pump systems)
- 3-4 Two Pumps ON / One Pump OFF
- 5-6 Two Speed Booster ON/ One Speed OFF
Used In Conjunction with Jumper 3-4
- 7-8 Centigrade ON / Fahrenheit OFF

ON = Jumper Required

OFF = Jumper Not Required

BUILD-A-PACK (B.A.P.) CONTROL

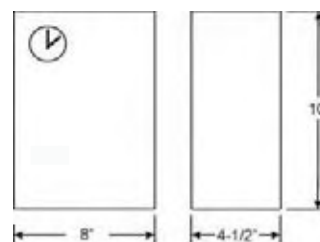
This spa temperature control uses a low voltage 3-button topside (included) and the ST2115 technology and is backed by a One Year Limited Warranty!

Please Note: 220V Systems Are Neutral Required- 4 Wire Systems



Item #3-00-0008

Dimensions:



ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 RDY	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE (Included)
3-70-0468*	240V	40 + HTR	240V RDY	YES	120V	N/A	120V	120V	120V	N/A	15' Pwr, P1, B, L	3-00-0008

*Limited to Stock On Hand.

UNIVERSAL RETRO-FIT CONTROLS

Basic Pneumatics

AP-4 Control

Item #3-70-0217
 AP-4 CONV TC 5.5KW
 120V / 240V



Outputs:

- Pump: (1) 2-Speed, 120V
- Blower, 120V
- Light, 12V

Includes:

- 2" Full Flow Heater, 1.5KW/5.5KW
- Cords (P1, B, L)
- Light Kit, 12V

Topsides

(sold separately)
 See Allied Catalog for
 topside options.

Aqua-set



Digital



M-Class

Item #3-74-7036



Outputs:

- Pump 1: 2-speed
- Pump 2: 1 or 2-speed
- Pump 3: 1-speed
- Circulation Pump
- Blower, 120V
- Light, 12V
- Heater, 5.5KW
- Ozone, 120V
- Fiber light capable
- Auxiliary outputs
- J&J Connections

Topsides

(sold separately)

K-8

Item # 3-00-7221



K-8-10BTN

Item # 3-00-7068



K-3 Aux

Item # 3-00-7133



S-Class Control System Packages, 120/240V



Bundle Options:

Bundle #1:

Item # 3-73-1000
 Control (#3-72-7079) with
 K-18 Topside & Cords



K-18

(3 overlays included)

Bundle #2:

Item #3-73-2000
 Control (#3-72-7079) with
 K-19 Topside & Cords



K-19

(3 overlays included)

Outputs:

- Pump 1: 2-speed
- Pump 2: 1-speed
- or Blower (single-speed)
- Light 12V
- Heater, 1.0 / 4.0 KW
- Ozone

Includes:

- Cords (P1, B, L)
- Thermowell

Advanced Electronics

IN.XE with Topside and IN.LINK Cords



in.xe Control
 (#3-72-7018)

in.k200 (#3-00-7242)



in.k450 (#3-90-0128)



in.link Cable Kit
 (#5-60-7266)



Adapter Plate
 (#3-05-7242)



Bundle Options:

Bundle #1:

Item # 3-73-3000
 Control
 in.k200
 in.link Cable Kit
 Adapter Plate

Bundle #2:

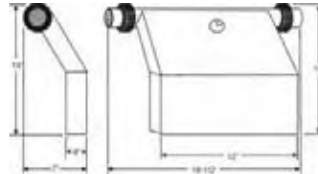
Item # 3-73-3055
 Control
 in.k450
 in.link Cable Kit



CM-190 CONTROL

This CM-190 replaces many air pneumatic units with top mount heaters. It is a time tested reliable control.

Dimensions:



Please Note: 220V Systems Are
Neutral Required- 4 Wire Systems

ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 RDY	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE
3-70-5015 *	120V/ 240V	20/40	1.5KW/ 5.5KW	YES	120V/ 240V	N/A	120V	12V	120V	N/A	NONE	READY
3-70-5006*	240V	50/60	5.5KW	YES	240V	240V; 1-Speed; 3 Pin AMP	120V	12V	120V	N/A	NONE	4 Button READY

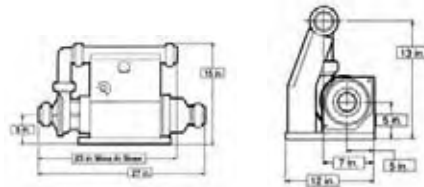
**Limited to Stock On Hand.*

EM-190 PACK



This EM-190 replacement pack is a universal replacement unit. It is a time tested reliable control. Easy to install. Runs 1HP, 1.5HP or 2HP Pump, 1HP Blower, Ozone and Light.

Dimensions:



Please Note: 220V Systems Are
Neutral Required- 4 Wire Systems

ITEM#	V	MAX SERV	HTR	HEAT LIGHT	PUMP 1 2-SPD	PUMP 2 RDY	BLOWER 1-SPD	LIGHT	OZ RDY	GFCI	CORDS	TOPSIDE
3-80-5011* (shown above)	120V/ 240V	20/50	1.5KW/ 5.5KW	YES	1.5HP/ 120V	N/A	1.0HP/ 120V	12V	120V	N/A	NONE	READY
3-80-5005*	240V	50/60	5.5KW	YES	2.0HP/ 240V	240V; 1-Speed; 3 Pin AMP	1.0HP/ 120V	12V	120V	N/A	NONE	4 Button READY

**Limited to Stock On Hand.*



ACCESSORIES

CORDS	PART NUMBER	DIMENSION	STYLE
1-SPEED PUMP	5-50-0220	16'	3 Pin AMP
	5-50-0080	48"	4 Pin AMP
	5-50-0179	12'	4 Pin AMP
2-SPEED PUMP	5-50-0065	42"	4 Pin AMP
	5-50-0198	72"	4 Pin AMP
	5-50-0211	14'	4 Pin AMP
BLOWER	5-50-0066	36"	4 Pin AMP
OZONE	5-50-0175	36"	4 Pin AMP
REPLACEMENT RECOMMENDATIONS FOR OLDER BRETT DIGITAL UNIT			
BRETT OBSO MODEL	FUNCTIONS	REPLACEMENT	NOTES
BL45,50	1P,O,L	SCLASS (item #3-72-7078 / -7079)	Cords & topside not included
BL50	1P,B,O, L	SCLASS (item #3-72-7078 / -7079)	Cords & topside not included
BL46,60,80	1P,B,O,L	SCLASS (item #3-72-7078 / -7079)	Cords & topside not included
BL46,50,60,80	2P,B,O,L	SCLASS (item #3-72-7036)	Cords & topside not included
KEY			
1P = 1 PUMP	B= BLOWER	L = LIGHT	
2P = 2 PUMPS	O = OZONE		

SPA BUILDERS / GECKO CONTROL SYSTEM KITS

ID #	PART DESCRIPTION	OUTPUT SUPPORTED	THERMOWELL PART #	CABLE KIT PART #	TOPSIDE PART #
SSPA(SCLASS)					
3-72-7078	SC-CF-P121-P211-01-NE-LS-H4.0 AMP-SBD	P1 / P2(BL) / O	4-30-7001 / 9920-100163	5-30-7020 / 9920-100112	TSC-18 (3-00-7218) TSC-19 (3-00-7219)
3-72-7079	SC-CF-P121-P211-01-NE-LS-H4.0 JJC-SBD	P1 / P2(BL) / O	4-30-7001 / 9920-100163	5-30-7021 / 9920-100113	TSC-18 (3-00-7218) TSC-19 (3-00-7219)
3-72-7108	SC-MP-P121-P211-01-CP1-NE-LS- H4.0-JJC-SBD1	P1 / P2(BL) / CP / O	4-30-7001 / 9920-100163	5-30-7021 / 9920-100113	TSC-18 (3-00-7218) TSC-19 (3-00-7219)
MSPA(MCLASS)					
3-74-7035	MC-MP-P122-P222-B1-O1-CP1-NE-A11-A21-LS-H5.5-RTC-T2-AMP-SBD	P1 / P2 / P3 / BL / CP / O / FB	4-30-7001 / 9920-100163	5-30-7022	TSC-4 (3-00-7142) TSC-8 : K-8 Topsides (3-00-7221 - 8 Button / 3-00-7068 - 10 Button)
3-74-7036	MC-MP-P122-P222-B1-O1-CP1-NE-A11-A21-LS-H5.5-RTC-T2-JJC-SBD	P1 / P2 / P3 / BL / CP / O / FB	4-30-7001 / 9920-100163	5-30-7022 / 9920-100132	TSC-4 (3-00-7142) TSC-8 : K-8 Topsides (3-00-7221 - 8 Button / 3-00-7068 - 10 Button)



S-CLASS CONTROL SYSTEM

SC-MP Features:

Auto time-out on all outputs
3-digit LED display
Digital temp. display
Sensor failure detection
Ozone management
Air channel clean-out
Programmable filter cycles
High-limit protection
Pressure switch failure detection
Current limiting option
Smart Winter Mode
Temp. accuracy within $\pm 1^{\circ}\text{F}$
CoolRays compatible
Fiber light compatible
Overtemp protection
Filter cycle overtemp protection
and more!



SC-MP input

120 V

240 V

SC-MP outputs

Pump 1 (dual-speed)

Pump 2 (single-speed)

Blower (single intensity) (optional)

Circulation pump (optional)

Heater

Light

Ozonator

Fiber box

ITEM #/ MFG#

DESCRIPTION

3-72-7078 / 0202-207004

SC-CF-P121-P211-O1

Board: N/A

Options: LS-H4.0-AMP-SBD

works with TSC-18-PPD (0202-007049) or TSC-19-PPD (0202-007100) keypad Pump 1, Pump 2, Ozone, LS, 4 kw heater, AMP connectors

3-72-7079 / 0202-207005

SC-CF-P121-P211-O1

Board: N/A

Options: LS-H4.0-JJM-SBD

works with TSC-18-PPD (0202-007049) or TSC-19-PPD (0202-007100) keypad Pump 1, Pump 2, Ozone, LS, 4 kw heater, JJ connectors

Please Note: 220V Systems Are Neutral Required- 4 Wire Systems

S-CLASS uses K-9 oval or K-18 or K-19 Topsides. Pump 2 is single speed only. You can substitute a blower if required. Topsides (page 76) and cords (page 173) are not included.

Technical Note: To attach a fiber optic light system to our S-Class Systems units using the EXM-5 optional control, please use the following parts:

For a 3-72-7078 SC-CF SYSTEMS AMP

1pc 5-30-6006 EXM -5 w/AMP CONNECTOR

1pc 5-50-0065 AMP CORD

For a 3-72-7079 SC-CF SYSTEMS JJM

1pc 5-30-6007 EXM-5 w/JJM CONNECTOR

1pc 5-30-0057 JJM CORD

Connections are as follows:

EXM-5 box plugs to P26

BLACK to P33 (120V)

WHITE to P8 or P9 or P7

GROUND to P37 or P6 or P5

Operation:

First push of light button turns on color wheel

Second push of light button changes color

**See Page 21 for Additional
Detailed Information.**



S-CLASS CONTROL SYSTEM (*continued*)



Item #3-00-7218
 K-18 Topside
 K-18-AD-NO-SDB
 5" long, 3 overlays included



Item #3-00-7219
 K-19 Topside
 K-19-SL-ADB-NO-SBD
 7" long, 3 overlays included

ITEM #	DESCRIPTION
---------------	--------------------

BUNDLE PACKAGING OPTIONS:

3-73-1000	S-SPA with Topside K-18 & Cords Includes: 3-72-7079 Control, SSPA-1-P121-P211-01-NE-LS 3-00-7218 K-18-AD-NO-SDB with 3 Overlays 5-50-0058 Plug, MJJ Pump 48 14/3AWG 5-50-0053 Plug, MJJ Blower 48 18/3AWG 5-50-0056 Plug, MJJ Pump 48 14/4AWG 4-30-7001 Thermowell, 10mm
3-73-2000	S-SPA with Topside K-19 & Cords Includes: 3-72-7079 Control, SSPA-1-P121-P211-01-NE-LS 3-00-7219 K-19-SL-ADB-NO-SBD 5-50-0058 Plug, MJJ Pump 48 14/3AWG 5-50-0053 Plug, MJJ Blower 48 18/3AWG 5-50-0056 Plug, MJJ Pump 48 14/4AWG 4-30-7001 Thermowell, 10mm
3-73-2500	S-SPA with Topside K-18 & Cords Includes: 3-72-7078 Control, SSPA-1-P121-P211-01-NE-LS 3-00-7218 K-18-AD-NO-SDB with 3 Overlays 5-50-0065 Cord, Pump 2-Speed 4 POS AMP 36" 5-50-0080 Cord, Pump 1-Speed 4 POS AMP 48" 5-50-0066 Cord, 4 POS 14/3 36 Blower White 4-30-7001 Thermowell, 10mm
3-73-1500	S-SPA with Topside K-19 & Amp Cords Includes: 3-72-7078 Control, SSPA-1-P121-P211-01-NE-LS 3-00-7219 K-19-SL-ADB-NO-SBD 5-50-0065 Cord, Pump 2-Speed 4 POS AMP 36" 5-50-0080 Cord, Pump 1-Speed 4 POS AMP 48" 5-50-0066A Cord, 4 POS 14/3 36 Blower without PL 4-30-7001 Thermowell, 10mm



S-CLASS CONTROL SYSTEM (*continued*)

Topsides and cords are not included.

ITEM #/ MFG

*3-72-7036 / 0202-205114

DESCRIPTION

SSPA-MP-P122-P212-B1-01-NE-LS-H5.5-AMP-HS2
Works with TSC-8-GE2
(keypad with LCD display)
Pump 1, Pump 2, Blower, Ozone,
Amp connectors



**Limited to Stock on Hand.*

3-72-7072 / 0202-205160 SC-MP-P122-P212-B1-01-CP1-AU11-LS-H4.0-U-LCD-JJC-NE-SBD

Please Note: The controls above use a K-8, 7 button topside (item #3-00-6017). They will not work with K-9, K-18, K-19.

3-72-7108*

SC-MP-P121-P211-O1-CP1-NE-LS-H4.0-JJC-SBD1
Works with TSC-18 or TSC-19 keypad Pump 1, Pump 2, Ozone,
Circulation pump, LS, 4 kw heater, JJ connectors

This unit will run Pump 1- 2 speed, Pump 2 or Blower -1 speed and a circulation pump and uses the standard S-Class topsides K-9,K-18 or K-19

3-72-7074 / 0202-205162 SC-MP-P121-P211-B1-01-CP1-AU11-LS-H4.0-JJC-SBD

**Limited to Stock on Hand.*

ITEM

3-72-7107

DESCRIPTION

SC-MP-P122-P212-P311-01-CP1-AU11-LS-U-JJC-NE
Heater sold separately. For heater options, call our
Customer Service Department at (800) 237-9937.

Compatible Topsides:
K-18, K-19, K-44 (LA SPAS)



S-Class Technical Notes: SBSG / Gecko Temperature sensors used with these units are 10mm diameter and will not fit into a standard thru-well . Refer to [page 145](#) for more information and part number.

S-Class with Circulation Pumps:

When the spa temperature rises 2 °F above the desired set point (this may occur in hot climates), the circulation pump is normally shut off to allow the water to cool back down to the desired set point, at which point the Circulation pump output is re-activated.

Also, when using a Circulation Pump with a horizontal heater, a minimum of 15 GPM is required. The use of an Aqua-Flo CMHP is suggested.



M-CLASS SYSTEMS

MC-MP Features:

Custom backlit LCD display
Digital temperature display
Sensor failure detection
Ozone management
Air channel clean-out
Programmable filter cycles
High-limit protection
Pressure switch failure detection
Current limiting option
Smart Winter Mode
Temp. accuracy within $\pm 1^{\circ}\text{F}$
Overtemp mode protection
Overtemp protect. on filter cycle
CoolRays compatible
Fiber light compatible
DJS-1 compatible (optional)
Real time clock (optional)
SpaWatch ready!
Pocket-tek ready!
And more!



MC-MP input	pump
240 V	Heater
MC-MP outputs	Light
MC-MP outputs	Ozonator
Pump 1 & 2 (dual-speed)	Fiber light
Optional pump 3	Opt. aux. outputs #1 & #2
Blower	Opt. AC lights #1 & #2
Optional circulation	

M-CLASS SYSTEMS units are customizable. These units can run up to 3 pumps, blower and circulation pump. To run 3 pumps, use 10 button topside, item #3-00-7068 and inlay item #3-05-7096. Ask for details.

ITEM # / MFG # DESCRIPTION

3-74-7035 MC-MP-P122-P222-P312-B1-O1-CP1-NE-A11-A21-LS-H5.5-RTC-T2-AMP-SBD
Board: #3-60-6110
works with TSC-8 (8 or 10 keys) or TSC-4 (8 or 10 keys) keypad
Pump 1, Pump 2, Pump 3 (optional with 10 keys keypad), Blower,
Ozone, Circulation pump, Aux. 1, Aux. 2, LS, 5.5 kw heater,
Real-time clock (optional with TSC-4 keypad, T2, AMP connectors

3-74-7036 MC-MP-P122-P222-P312-B1-O1-CP1-NE-A11-A21-LS-H5.5-RTC-T2-JJC-SBD
Board: #3-84-7007
works with TSC-8 (0200-007070) or TSC-4 (0200-007023) keypad
Pump 1, Pump 2, Pump 3 (optional with 10 keys keypad), Blower, Ozone,
Circulation pump, Aux. 1, Aux. 2, LS, 5.5 kw heater,
Real-time clock, T2 JJ connectors



Please Note: Systems units do not include a topside or cords.

See Page 21 for Additional Detailed Information.

Technical Note: When using a Circulation pump with a horizontal heater, a minimum of 15 GPM is required. The use of an Aqua-Flo CMHP is suggested.

*Note: Most MSPA and M-CLASS use K-8 Topsides
(K-8 Topside Dimension: 7" x 3 1/4")*

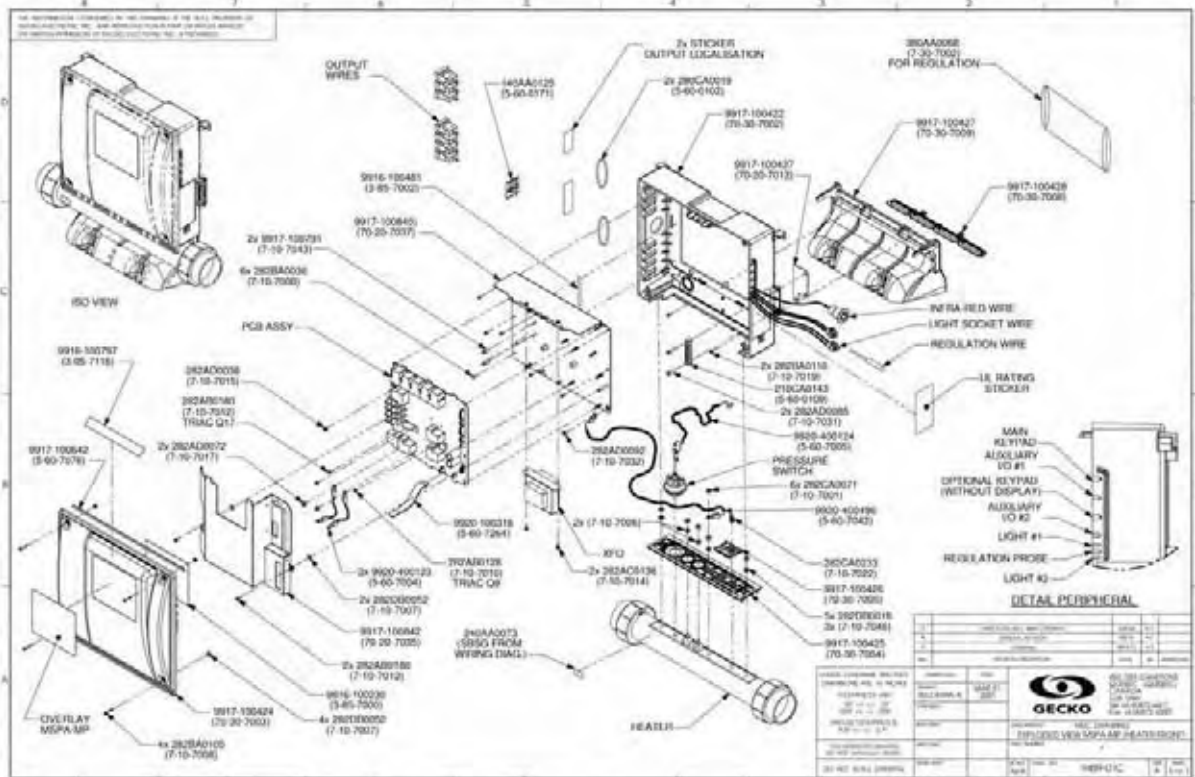
Additional information on cords & cord sets found on page 180.

Please Note: SBSG / Gecko Temperature sensors used with these units are 10mm diameter and will not fit into a standard thru-well . Refer to [page 145](#) for more information and part number.

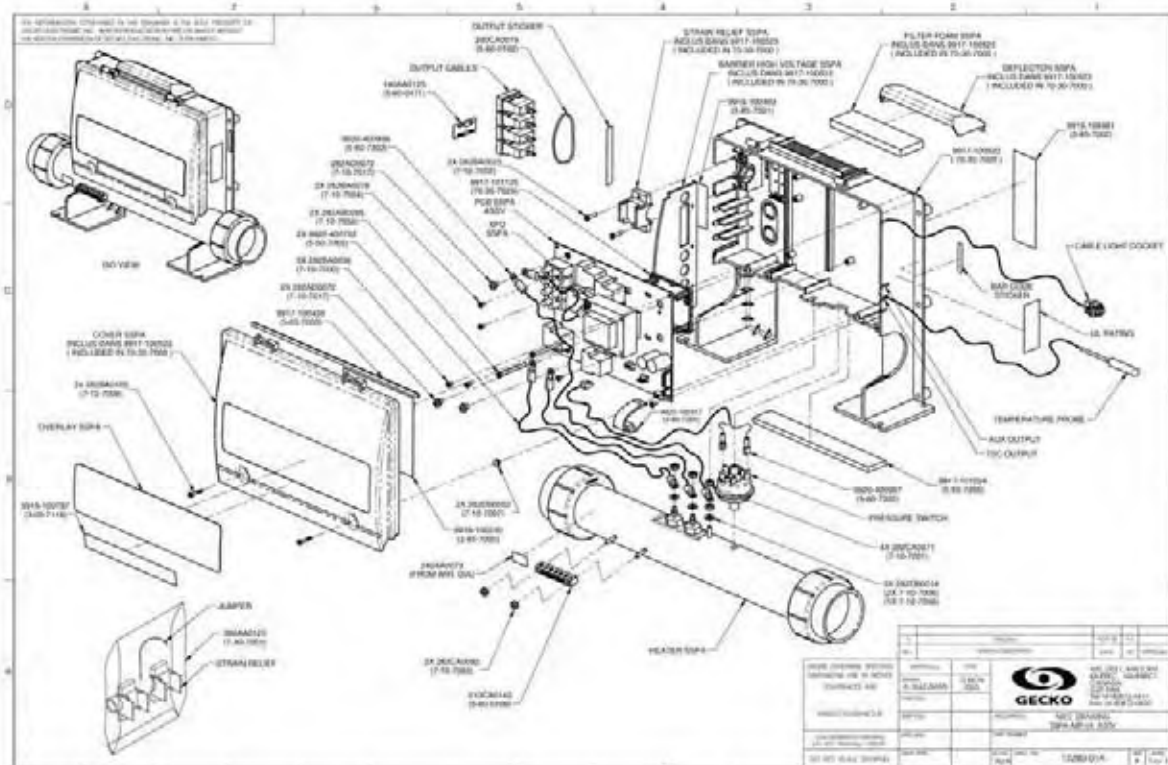


CLASS SPA SYSTEMS

M-CLASS SPA SYSTEM - exploded view



S-CLASS SPA SYSTEM - exploded view





Factory Direct for Genuine Brand Products
Len Gordon • Spa Builders Systems • Gecko • Aeware
Aqua-Flo • Brett Aqualine . . . and Much More!



U-CLASS SPA SYSTEMS

ITEM # / MFG #

3-74-7500 / 0207-2050002

DESCRIPTION

UC-MP-P121-01-NE-LS-H1.0-JJC



CONTROLS / PACKS

DISCOUNT DAZE

at



Call Toll Free **800-237-9937**

or Fax Free **866-909-7278**

or Order Online Free

www.AlliedInnovations.com

Factory Direct for Genuine Brand Products

Len Gordon • Brett Aqualine • Spa Builders Systems
Gecko • Catalina Controls • CRL • Premier • Ramco

Join Us for our “Discount Daze” Program where you will find control systems, equipment packs and parts that are re-conditioned and offered to you at a price you cannot resist.

An added bonus includes a **90-day warranty** for the items offered in our program at **no additional cost**. Items are limited and subject to availability and cannot be combined with any other promotional offer.

If you are not receiving our monthly promotions via fax or email, please let us know if you would like to be added to our mailing list.



IN.XE



innovative spa pack platform for entry level spas



Item #3-72-7018

Please Note:

Cords sold separately, however, they are included with the bundle packages.

Also compatible with
irmt-4 and irmt-3
remote controls

The all new in.xe! The perfect control system for entry level spas. In.xe combines Aeware by Gecko's in.pac series breakthrough features and signature design with a heat.wav integrated heater in optimal price performance configurations for typical entry level spas.

- 2 high-current AC connectors:
Pump 1 - Pump 2
- 3 low-current AC connectors:
Relay controlled: Blower / Ozonator
Direct-to-line: In.power.210 power supply
- 3 low-voltage interface connections:
-Keypad
-Light Output
-in.watch or in.stik
- Light output
- Typical spa configurations:
-2-speed pump, blower, light, ozone
-2-speed pump, 1-speed pump, blower, light ozone
- heat.wav heater:
4kW @ 240v UL/CE
2kW @ 230v CE 1kW @ 120v UL

Features:

In.put
new input terminal bloc

In.seal
watertight protection

In.alex
board access prevention

In.kin
kinetic heat monitoring

In.flo
dry-fire protect

In.t.cip
water temp. algorithm

In.link
plugs and connect

In.stick **(item #3-72-7022)**
software auto-uploader

KEYPADS:

ITEM # /
MFG #

3-00-7244 /
0607-009005



DESCRIPTION

IN.K100-BK-30P-KBK-AE1
Auxiliary keypad

ITEM # /
MFG #

3-90-0128 /
0607-005008



DESCRIPTION

IN.K450-BK-30P-ADB-NO
Compact full-function keypad
for in.xm & in.xe spa systems

3-00-7242 /
0607-008022



IN.K200-CL-2OP-ADB-AE1
Main compact keypad for
2 pump in.xe spa system and
overlay with LED display, 4 keys,
7 function light indicators

3-05-7102 /
9916-101335

Overlay IN.K450
(Sold Separately)

(Faceplate #3-05-7103 / 9916-101030)

3-00-7243 /
0607-008003

IN.K200-CL-1OP-ADB-AE1
1 pump in.xe spa system

3-00-7240 /
0607-005002



IN.K400-BK-30P-KBK-AE1
Compact main keypad
7 backlit raised keys -
LED display
for in.xm or in.xe spa systems

BUNDLE PACKAGING OPTIONS:

3-73-3000

IN.XE with Topside IN.K200 and IN.LINK Cords
Includes: Control #0602-221001, IN.K200,
IN.LINK Cable Kit (8 pieces), Adapter Plate

3-73-3050

IN.XE with Topside IN.K400 and IN.LINK Cords
Includes: Control #0602-221001, IN.K400,
IN.LINK Cable Kit (8 pieces), Adapter Plate

3-73-3055

IN.XE with Topside IN.K450 and IN.LINK Cords
Includes: Control #0602-221001, IN.K450,
IN.LINK Cable Kit (8 pieces)



Item #3-73-2005

IN.XE Control with Acrylic Display
and K200 topside

Call Our Customer Service Department For Additional Information!



IN.XM

Mid-range spa pack platform



Item #3-78-7020 /
MFG #0601-221018

Dimensions: 17" x 10" x 4"

Please Note:

Cords sold separately but included with the bundle packaging.

Versatile and heater-"less", the in.xm can be wall-mounted or installed on its mounting base and comes with the new in.therm intelligent remote water heating system.

Features:

In.put
new input terminal bloc

In.seal
watertight protection

In.axess
board access prevention

In.kin
kinetic heat monitoring

In.flo
dry-fire protect

In.t.cip
water temp. algorithm

In.link
plugs and connectors

In.scan
system auto-diagnostic

- Power box display and buttons
- Light or CoolRays connector
- Accessory connector (in.pocket, in.interface, SpaWatch, etc.)
- General I/O connector (EXM-5 or IR receiver*)
- in.keys main and aux. keypad connectors
- Connector for direct 120/240 vac 5 Amp output (for in.play audio or video accessories) • 4 connectors for outputs controlled by 4 independent relays (for oz, cp, light, fiber box, blower and any other accessories) (120/240 vac 5 Amp)
- Pump output connector (for 15 amp single speed pump) (120/240 vac)
- 2 output connectors for pumps (rated for dual speed pumps up to 20 amp at 240 vac only)
- Output connectors for in.therm remote heating system (240 vac)

KEYPADS:

ITEM # / MFG

3-00-7241 / 0607-009012

DESCRIPTION

IN.K600-MB-GF-KBL-BP-AE1



BUNDLE PACKAGING OPTIONS:

3-73-4000

IN.XM with Topside IN.K600 and IN.LINK Cords

Includes:

Control #0607-009012, IN.K600,

IN.LINK Cable Kit (8 pieces), IN.THERM Heater (*See Info Below*)



Item #3-90-0114 /
MFG #0603-416001

IN.THERM

Intelligent remote water heating system designed to be totally maintenance free.

- 3.8kw remote heater that integrates electronics in its power box
- Includes a built-in temperature probe and a new water flow detection feature that eliminates the need of a pressure switch.
- Controls multiple power levels on a single element extending its lifetime by heating at high power only when needed.
- No moving parts and no adjustments, hassle free and defines new levels of reliability.



MINIPAK TOPSIDE (For Heat Exchange System)

TSC-2 for Minipak-1-120V

ITEM # / MFG#
 3-00-6015* /
 0203-007004

DESCRIPTION
 TSC-2-1A-GE1
 Dimensions: 3 1/4" x 7"
 Cut Out: 2 5/8" x 6 3/8"



Faceplate
 Item #3-05-7095

**Limited to Stock on Hand.*



SPA MONITORING SYSTEM



Aeware's in.watch not only displays indoor and outdoor temperatures, it keeps an eye on your spa system condition and reads its water temperature. Aeware's in.watch displays an error code and sounds an alarm when it detects a problem with your spa system. It also displays spa maintenance reminder messages.

- Easy set-up
- Main unit sits on a small pedestal base or can be wall-mounted
- Comes with a sensor for indoor temperature reading, a waterproof remote thermometer transmitter for outdoor temperature reading and a spa pack transmitter for spa system monitoring and water temperature reading.
- 100 feet operating range in ideal conditions without any obstacles
- Made for Aeware's in.xm spa systems, Gecko's MSPA-MP metapacks and SBSG M-Class spa systems.
- FCC (North-America) and CE (Europe)

Item #3-90-0122



AEWARE IN.TUNE KIT



ITEM #
 3-90-0200

DESCRIPTION
 Includes:
 • 3-90-0100 in.tune
 • 3-90-0105 in.power
 • 3-90-0102 in.tune Receiver Antenna





CD PLAYER



in.tune

waterproof receiver / mp3 / cd player

- Fully and truly waterproof
- Designed for the portable spa market
- Incorporates an AM/FM/Weather Receiver / MP3 / CD Player all in one
- Perfect for upgrades to existing systems
- Front panel is IPX6 rated, UV and salt spray resistant
- Available optional keypad (wired) control with or without a display or optional IRMT-4 wireless remote controls

- Features 50 watts x 4 amplifier, plays CD's, CD-R's, CD-RW's and MP3 files with ID3 tags
- RCA audio input (2) for external sources like a TV tuner and RCA audio output (4) for an external power amplifier.
- Operating temperature = -4° F to 104° F
- Operating voltage = 10.8 – 15.6 VDC
- UL1563 rated (front panel is double insulated).
- *Speakers not included.

ITEM # / MFG

DESCRIPTION

3-90-0100 / 0700-105001

in.tune.100.KK
 Waterproof Receiver / MP3 / CD Player
 Black faceplate / Front panel protective cover



3-90-0102 / 9920-400944

in.tune Antenna



3-90-0105 / 0702-100013

in.power.210 power supply with AMP cable for in.tune or in.pix. Input 120VAC 2A / 240VAC 1A; 50/60 HZ to 15VDC 5A output. Dimensions: 6 3/4 x 1 3/4 x 9 1/2 Call for in.power.210 JJ cable 120V (0702-100010) option.



3-90-0106 / 0702-100015

in.power.210 power supply
 240V for in.link
 Replaces MFG # 0702-100001
 in.power.200.purple JJ power supply

3-90-0118 / 0707-005002

Wired remote in.tune Keypad
 (Din-Din Cable, Item #5-60-6025)



3-90-0123 / 0707-005003

In.K455-BK-SPA-AE1



3-90-0115 / 9920-100322

in.tune panel housing used for the installation of the in.tune control



3-90-0116

in.tune panel housing - white

7-30-7064

Protective Cover
 in.tune front panel protective cover - black



3-90-0121 / 0799-105001

In.P3-100-BK
 Waterproof protection, docking, connectivity & remote control for iPod



5-60-6023 / 9920-100323

Assembly Cable IRMR-4-10FT. Infrared sensor for in.tune radio





CD & DVD PLAYERS



Aeware's in.pix adds DVD to all the features already offered by in.tune, its sister product.

- IPX5, UV, salt spray and waterproof swing front panel
- Corrosion free stainless steel frame
- Optimal performance in wet environments
- Compliant coating of all electronic components
- Easy to read backlit LCD
- Highly responsive backlit rubber keys
- Secured connectors
- Sealed back enclosure
- Approved under UL 1563 & CSA, safest and most logical choice for spa and hot tub use
- Complete DVD control features (DVD-Video, DVD-RAM, DVD-R)
- Complete CD control features (CD, CD-R, CD-RW, MP3, JPEG, HDCD)
- AM/FM tuner (automatic / manual tuning)
- Non-volatile memory for radio station preset
- Compatible with American or European radio stations
- 50 watts x 4 amplifiers (total power: 200 watts)
- Compatible with Aeware's wireless and wired remote controls
- Auxiliary audio/video input
- 4 RCA auxiliary audio output connectors
- Composite/RCA video output



Item #3-90-0120

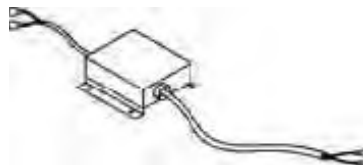


**Item #5-60-6024 / 0799-005002
/ 0799-005001**

ITEM # / MFG #	DESCRIPTION
3-90-0120	in.pix Waterproof DVD / MP3 / CD / Receiver
5-60-6023 / 9920-100323	Assy Cable IRMR-4-10FT
5-60-6024 / 0799-005002 / 0799-005001	IRMT-4-BK-AE1 Handheld remote for the Gecko radio or DVD unit Please note: You will need an IR receiver cable for this unit to operate.

Sundance

ITEM # / MFG #	DESCRIPTION
SD6600-005 / 6600-005	Power Supply, 240 VAC X 15 VDC, 15 Watt with Cord, 4.0 Amp





SPEAKER SYSTEMS

5 1/4" CO-AXIAL MARINE SPA SPEAKER SYSTEM

FEATURES:

- ▶ Pop-Up Design
- ▶ 5 1/4" Co-axial Marine Speaker
- ▶ 75 Watt RMS - 150 Watt Peak
- ▶ Impedance - 4 Ohm
- ▶ SPL - 1 Watt/1 Meter - 88db
- ▶ Frequency Response - 80 Hz-20KHz
- ▶ Heavy-Duty ABS Plastic Housing
- ▶ 10 Foot Cord for Easy Assembly
- ▶ Dual Tuned Ports for Improved Acoustics
- ▶ Unique Pattern and Low-Profile Design for Easy Fit
- ▶ Available with Custom Logo on Cover (Min., 2,000/Yr.).



2" POP-UP ROTATIONAL SPA SPEAKER SYSTEM

FEATURES:

- ▶ New Pop-Up Design - Stainless Steel Grill.
- ▶ Round Hole Pattern for Easy Assembly.
- ▶ Uses Same 3 1/4" Hole Pattern as 2" Diverter Valve.
- ▶ Three-Way Speaker Delivers Low, Medium and High Range Sound.
- ▶ 340 Degree Rotational Housing.
- ▶ Salt - Weather - UV Resistant.
- ▶ Waterproof.
- ▶ Available in Grey, Black & Sterling Silver.

SPECIFICATIONS:

Dual 2" Drivers: Anti-Magnetic Design

Cone Material: Mica PP injection cone with TPU Surround.
 Magnet Weight: 21.4 grams.
 Magnet Type: High density Neodymium magnet (Nd-Fe-B).
 Speaker Basket: High temp ABS.

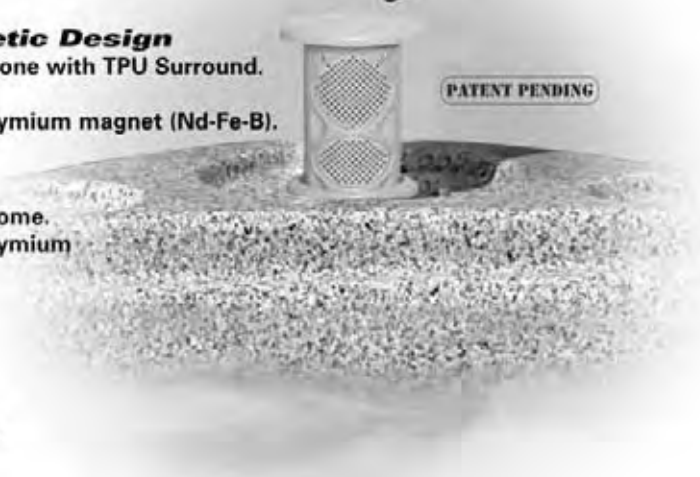
TWEETER

Material: Ferro-fluid Mylar dome.
 Magnet Type: High density Neodymium magnet (Nd-Fe-B).

ASSEMBLY

Frequency Response: 185Hz - 20 KHz
 Watts RMS: 40W
 Watts Peak: 80W
 Sensitivity: 84dB 1w/1M ±2dB
 Resistance: 4 ohm

NEW
IMPROVED
DESIGN!



ITEM # / MFG #
 3-90-0125 / 675-0100
 3-90-0126 / 675-0320
 3-90-0126BK / 676-0311

DESCRIPTION

Speaker System 5-1/4" Co-Axial
 Speaker System 2" Pop-up Rotatable with Stainless Steel Grill
 Speaker System 2" Pop-up Rotatable with Black Grill

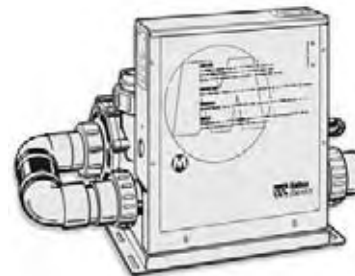
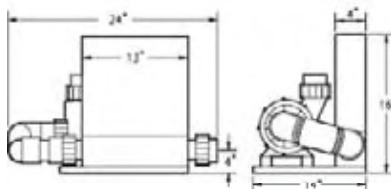
CONTROLS

M7C 240V POWER SYSTEM

This Power System is supplied as a dedicated 240V, 4 wire (requires a neutral) system with a 240V, 2.0 HP, 2-speed pump. Top side control not included

This system can operate:

- 5500W heater
- 120V blower
- 240V 1-speed secondary pump
- 240V ozone generator
- 240V blower
- 120V fiber optic light
- 12V Spa Light

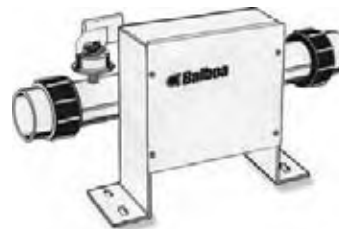


Please note: Choice of topsides / topside not included
54155 8BT Deluxe Digital w/10' Cable;
54156 7BT STD Digital w/10' Cable;
54157 6BT STD Digital w/10' Cable

ITEM #	MFG #	V	AMP	HTR	PUMP 1 2-SPD	PUMP 2	BLOWER	OZ	LIGHT	COMMENTS	CORDS
3-70-0800	52087	240V 3 or 4 WIRE	50A	5.5KW	2HP 240V 2SP AF	240V 1SP	120/240V 240V IF 3 WIRE	240V	12V/ 120V FIBER		P1

LITE LEADER SYSTEM 120/240V

The Lite Leader system from Balboa is a great way to get proven Balboa quality at the lowest possible price. The price includes the topside panel, 4KW heater with pressure switch, sensors and sensor mount.



ITEM #	MFG #	V	AMP	HTR	PUMP 1 2-SPD	PUMP 2	BLWR	OZ	LIGHT	COMMENTS	CORDS
3-70-0801	54114-HC1	120/ 240V	20A/ 40A	1KW/ 4KW	120/240V	N/A	N/A	120/ 240V Must match pump	12V	54116 2BT Topside included. T-well included.	P1, O

SYSTEM EL8000 MACH 3 800 INCOLOY



ITEM #	MFG #	V	AMP	HTR	PUMP 1	PUMP 2	PUMP 3	BLWR	OZ	LIGHT	COMMENTS	CORDS
3-70-0807	55064-02	240V	48A	5.5KW	2-SPD 240V	2-SPD 240V	2-SPD 240V	240V 1-SPD	120V	12V	120V FB 120V AV (Stereo) 120V Mister 240V Circ Pump	



CONTROLS (continued)

SUV M7 EQUIPMENT SYSTEM without Blower

This Power System is supplied as a convertible 120V/240V system.

With a 120V, 1hp, two-speed pump.

This system can operate:

- 1400W/5500W Heater
- 12V Spa light
- 120V/240V Ozone Generator
- 120V/240V Blower



ITEM #	MFG #	V	AMP	HTR	PUMP 1 2-SPD	PUMP 2	BLWR	OZ	LIGHT	CORDS
3-80-0400	52587	120V/ 240V		1KW/4KW	1HP 120V AF		120/ 240V	120/240V Must match pump voltage	12V	P1

Please note: Choice of topsides. Topside not included.
 52144 4Btn mini oval; 51676 4Btn Lite Duplex LED
 54094 4Btn Lite Duplex Digital LCD

SUV M7 EQUIPMENT SYSTEM with 5.5KW Heater

ITEM #	MFG #	V	AMP	HTR	PUMP 1 2-SPD	PUMP 2	OZ	LIGHT	CORDS
3-70-0809	52531-03	120V / 240V		1.5/5.5 KW	120V / 240V	1 SPD or Blower	120V / 240V	12V	

Please note: Choice of topsides. Topside not included.
 3-00-8006 / 51223 Panel Digital Duplex
 3-00-8019 / 52144 Panel Mini Oval



RETRO-FIT KITS

ITEM #	MFG #	V	AMP	HTR	PUMP 1 2-SPD	PUMP 2	BLWR	OZ	LIGHT	CORDS	NOTES
VS-501 3-70-0802	54217	240V	50A	5.5KW	120V/ 240V 2SP	N/A	120V/ 240V 1SP	120/ 240V Must match pump voltage	12V	Included	51676 4BT LITE DUPLEX TOPSIDE INCLUDED
VS-510S 3-70-0803	54218	240V	50A	5.5KW	120V/ 240V 2SP	1SP	120/ 240V 1SP	120/ 240V Must match pump voltage	12V	Included	53189 7BT SERIAL STANDARD TOPSIDE INCLUDED
VS-501Z 3-70-0804	54220	240V	50A	5.5KW	120V/ 240V 2SP	Circ Pump	120/ 240V 1SP	120/ 240V Must match pump voltage	12V	Included	52144 4BT MINI OVAL TOPSIDE INCLUDED

Balboa™ **CONTROLS (continued)**

SERIAL DELUXE DIGITAL - UL OUTDOOR SYSTEM

This System can be configured as a Deluxe or Standard System.

This System is fully programmable with a 30-day battery back-up.

Replacement circuit board is PN 54175-02

The water-resistant system case allows these units to be mounted in an unshielded area. It is great for retrofitting or in-ground applications. These systems require 240V; 30 Amps. Designed for gas or stand alone electric heaters. These systems can operate:

- UL listed, outdoor • 240V Blower – can be rewired for 120V gas or electric heater • 240V Ozone generator – can be rewired for 120V
 - 240V Two-speed pump 1 • 12V/12W on/off – 120V optional
 - 240V One-speed pump 2 • 120V Fiber-optic
- *Comes with PN 30388 and PN 20674 Sensor Mounts



Please Note:

Choice Of Topsides. Topside Not Included.

51057 6BT Serial Standard Digital;
 53189 M-Series 2 Pump/ 1 Blower;
 51247 M-Series 2 Pump/ No Blower;
 51452 M-Series 1 Pump/ No Blower
 (special order); Serial Deluxe Digitals &
 Security Panel Also Available
 22632 50' Extension Loom (Optional);
 22630 100' Extension Loom (special order)
 T-well & Heyco Fitting Included

LDO 240 OUTDOOR UNIT

ITEM #	MFG #	V	AMP	HTR	PUMP 1 2-SPD	PUMP 2	BLOWER	OZ	LIGHT	CORDS
3-80-0401	53177-03	240V 4 WIRE	30A	ELECTRIC/ GAS	240V 1SP/ 2SP	240V 1SP	120/240V	240V	12V/ 120V FIBER	P1

Replaced Item #5-30-0042.

HEAT JACKET SYSTEM

This system is pre-wired with a 15 amp GFCI cord end for 120 volt operation. It is designed exclusively for the Heat Jacket application.

Features Include:

- Separate heat Up/Down buttons on panel
- Standby Mode

This system can operate:

- 120V One-speed Heat Jacket pump
- 12V/120V Spa light



ITEM # / MFG #	DESCRIPTION
3-70-0805 / 52973-01	Heat Jacket System

See Heat Jacket Circuit Boards on [page 63](#).

Please Note: Topside sold separately
 (Item #3-00-8023 / 53238) &
 (Item #3-00-8006 / 52654-01).

HYDROQUIP™ CONTROLS

CS300 UNIVERSAL SERIES

ITEM # / MFG#

3-70-0902 / CS300-U1

DESCRIPTION

Compact control that powers a pump, blower and light. Includes full 24-hour timer with mode switch.
 Reversible water flow.



V	CONTROL TIMER	HEATER WATTS	PUMP 1 V	AUX CIRCUIT	PUMP 2 V	BLOWER V	SWITCHED BLOWER	LIGHT CIRCUIT	OZONE CIRCUIT	GFCI OPTION	CONTROL PANEL	VERSI HEAT
120V/ 240V	Yes	1.125KW / 4.5KW	120V/ 240V	N/A	NONE	120V/ 240V	N/A	12V	120V/ 240V	LC or HC	N/A	N/A

CS500T SERIES

ITEM # / MFG#

3-70-0901 / CS500T-C

DESCRIPTION

The Retro-Fit Marvel
 Provides a solid foundation for
 yesterday and today's modern spa repair.
 Reversible water flow.



V	CONTROL TIMER	HEATER WATTS	PUMP 1 V	AUX CIRCUIT	PUMP 2 V	BLOWER V	SWITCHED BLOWER	LIGHT CIRCUIT	OZONE CIRCUIT	GFCI OPTION	CONTROL PANEL	VERSI HEAT
240V	YES	4.5KW	120V	N/A	N/A	120V	N/A	120V	N/A	NONE	N/A	N/A

CS700T SERIES

ITEM # / MFG#

3-70-0900 / CS700-T-C

DESCRIPTION

Proof that big things do come in
 small packages. Features a 2-speed
 pump circuit, blower circuit and light.
 UL and ETL Recognized.



V	CONTROL TIMER	HEATER WATTS	PUMP 1 V	AUX CIRCUIT	PUMP 2 V	BLOWER V	SWITCHED BLOWER	LIGHT CIRCUIT	OZONE CIRCUIT	GFCI OPTION	CONTROL PANEL	VERSI HEAT
240V	YES	4.0KW	120V	N/A	N/A	120V	YES	120V	N/A	NONE	N/A	N/A

CS-9000 UNIVERSAL SERIES

This universal retro-fit control features:
 Pump and air blower operation (U1 version)
 or two pump and air blower operation (U2 version)
 24-hour timer with mode switch; Heater ON light;
 Exclusive Smart Cords; Visual Diagnostic System (VDS)



ITEM #	MFG #	SUPPLY V	HEATER WATTS	PUMP 1 V	PUMP 2 V	BLOWER CIRCUIT	BLOWER VOLTAGE	LIGHT CIRCUIT	OZONE CIRCUIT
3-70-0906	CS-9000-U1	120V / 240V	5.5kW	120V / 240V	N/A	Yes	120V / 240V	12V	120V / 240V
3-70-0907	CS-9000-U2	120V / 240V	5.5kW	120V / 240V	120V / 240V	Yes	120V / 240V	12V	120V / 240V

Please Note: All pneumatic controls come with air tubing and buttons.

HYDROQUIP™ CONTROLS (continued)

CS9001-U1 UNIVERSAL SERIES

ITEM # / MFG#

3-70-0903 / CS9001-U1
3-70-0904 / CS9001-U2
3-70-0120 / CS9008-U2-VH

DESCRIPTION

A direct replacement for the old CS1001 control, the CS9001 includes all the modern, exclusive features you expect like the Visual Diagnostic System (VDS) and Smart Cords. Each system also includes convertible (120/240V) circuits for pump(s), air blower and ozone as well as air buttons and tubing.



V	CONTROL TIMER	HEATER WATTS	PUMP 1 V	AUX CIRCUIT	PUMP 2 V	BLOWER V	SWITCHED BLOWER	LIGHT CIRCUIT	OZONE CIRCUIT	GFCI OPTION	CONTROL PANEL
120V/ 240V	Yes	1.4KW / 5.5KW	120V/ 240V	N/A	#3-70-0903 NONE #3-70-0904 120V/240V	120V/ 240V	N/A	#3-70-0903 120V #3-70-0904 12V	120V/ 240V	NONE	N/A

CS6000-U1 UNIVERSAL SERIES

ITEM # / MFG#

3-70-0905 / CS6000-U1

DESCRIPTION

Excellent retro-fit control. Includes cords as well as air buttons and tubing. Exclusive Visual Diagnostic System (VDS) and Smart Cords make troubleshooting a snap.



V	CONTROL TIMER	HEATER WATTS	PUMP 1 V	AUX CIRCUIT	PUMP 2 V	BLOWER V	SWITCHED BLOWER	LIGHT CIRCUIT	OZONE CIRCUIT	GFCI OPTION	CONTROL PANEL
120V/ 240V	Yes	1.4KW / 5.5KW	120V/ 240V	N/A	NONE	120V/ 240V	N/A	12V	120V/ 240V	NONE	N/A

SS CS6100 ECO-1 SERIES

ITEM # / MFG#

3-70-0908 / CS6100-U
3-70-0121 / CS6108-U-VH

DESCRIPTION

Hydro Quip's Solid State controls are fully featured with Smart Cords, Visual Diagnostic System (VDS), LED readout on the four button spa-side (included) and Universal circuits.



V	CONTROL TIMER	HEATER WATTS	PUMP 1 V	AUX CIRCUIT	PUMP 2 V	BLOWER V	SWITCHED BLOWER	LIGHT CIRCUIT	OZONE CIRCUIT	GFCI OPTION	CONTROL PANEL
120V/ 240V	N/A	1.4KW / 5.5KW	120V/ 240V	NONE	N/A	N/A	N/A	12V	120V/ 240V	NONE	ECO-5

SS CS6200 ECO-2 SERIES

ITEM # / MFG#

3-70-0909 / CS6200-U

DESCRIPTION

Though compact in size, the SC6200-U features plenty of punch with its pump, air blower, light and ozone circuits. Exclusive Visual Diagnostic System (VDS) and Smart Cords also included.
*Call for second pump option.



V	CONTROL TIMER	HEATER WATTS	PUMP 1 V	AUX CIRCUIT	*PUMP 2 V	BLOWER V	SWITCHED BLOWER	LIGHT CIRCUIT	OZONE CIRCUIT	GFCI OPTION	CONTROL PANEL
120V/ 240V	N/A	1.4KW / 5.5KW	120V/ 240V	120V/ 240V	N/A	N/A	N/A	12V	120V/ 240V	N/A	ECO-6

Please Note: VH = Versi-Heat Remote Heater

HYDROQUIP™ CONTROLS (continued)

SS CS6230 ECO-3 SERIES

ITEM # / MFG#

3-70-0910 / CS6230-U
 3-70-0123 / CS6238-U-VH

DESCRIPTION

One of the most powerful systems available, the CS6230-U features circuits for two pumps, air blower, light and ozone. This compact series control also features the Exclusive Visual Diagnostic System (VDS) and Smart Cords.



V	CONTROL TIMER	HEATER WATTS	PUMP 1 V	AUX CIRCUIT	PUMP 2 V	BLOWER V	SWITCHED BLOWER	LIGHT CIRCUIT	OZONE CIRCUIT	GFCI OPTION	CONTROL PANEL
120V/ 240V	N/A	N/A	120V/ 240V	120V/ 240V	120V/ 240V	120V/ 240V	N/A	12V	120V/ 240V	N/A	ECO-3

Please Note: VH = Versi-Heat Remote Heater

CS800-A2 SERIES

ITEM # / MFG#

3-70-0912 /
 YDVAVDA-1100-AQ

DESCRIPTION

Control CS300-A2 Series



CS8000 / CS8600 SERIES

ITEM # / MFG#

3-80-0300 / CS8000

DESCRIPTION

Pack CS8000 11KW (120/240V)

3-80-0305 / CS8600-B

Pack CS8600-B 5.5KW (120/240V)



CS9700 SERIES

ITEM # / MFG#

3-70-0915 / CS9700-3P-U

DESCRIPTION

Complete Pack CS9700-3P Series



ITEM # / MFG#

2-00-0141 / 22-C73-040-0G03

DESCRIPTION

Versi Heat 2.25", 5.5KW, W/M/T





Factory Direct for Genuine Brand Products

Len Gordon • Spa Builders Systems • Gecko • Aeware
Aqua-Flo • Brett Aqualine ... and Much More!

HYDROQUIP™ CONTROLS (continued)

ES-8600 SERIES

ITEM #	MFG #	SUPPLY V	HEATER WATTS	PUMP SIZE	PUMP 1 V	PUMP 2 OPTION	BLOWER CIRCUIT	LIGHT CIRCUIT	OZONE CIRCUIT	GFCI
3-70-0810	ES-8648-A	240V	11kW	1.5HP	240V	240V	1.5HP	120V	120V	N/A
3-70-0918	ES-8648-F	240V	5.5kW	3.0HP	240V	240V	1.5HP	120V	120V	N/A

Please Note: 3-70-0810 - 11KW needs 2 circuits
50 AMP 4-wire for control box
60 AMP 3-wire for 11KW heater
Includes HT-2 topside



ITEM # / MFG#	DESCRIPTION
3-00-8910 / 48-0196A-25	IR Remote Kit

Photo
Unavailable

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at

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or Fax Free **866-909-7278**
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Gecko • Catalina Controls • CRL • Premier • Ramco

Join Us for our "Discount Daze" Program where you will find control systems, equipment packs and parts that are re-conditioned and offered to you at a price you cannot resist.

An added bonus includes a **90-day warranty** for the items offered in our program at **no additional cost**. Items are limited and subject to availability and cannot be combined with any other promotional offer.

HYDROQUIP™ CONTROLS (continued)

CS-3000-UI-WP

ITEM # / MFG#

3-70-0911 / CS3000-UI-WP

DESCRIPTION

Pack CS-3000-UI-WP



V			PUMP 1 V	AUX		BLOWER V	LIGHT		GFCI	CONTROL PANEL	
120 / 240	Yes	5.5 kw	120 / 240	—	—	Yes 120v / 240v	12 v	—	—	N / A	None

UNITED SPAS

C5 CONTROL SERIES

All C5 Controls are shipped 240V by default. Alternatively, they can be ordered 120V in the field by replacing the 240V transformer with the 120V version and jumping line 2 to neutral.



C5B
Heater on Bottom
Item # 3-70-0112



C5T
Heater on Top
Item # 3-70-0114



C5R
Remote Heater
Item # 3-70-0116

V	HEATER	PUMP 1	PUMP 2	BLOWER	LIGHT	OZONE RDY	GFCI	CORDS	AUDIO
240V	4.0 KW	240V	240V	240V	240V / 120V / 12V	240V	N/A	P1, P2, L	12V



T5 Topside
Item # 3-00-8905

- Comes Standard with every C5 Control
- One topside can be programmed for any spa's configuration.
- On-board flash memory without use of a battery to remember it's settings.

Please Note: The C5 controls can be programmed to operate 2 dual speed pumps, but only when there is no air blower being used. If there is an air blower, the second pump can only be operated on one speed.

ITEM # / MFG#

5-50-0070 / EL103

DESCRIPTION

Topside Cable 10'





FOUR FUNCTION CONTROLS

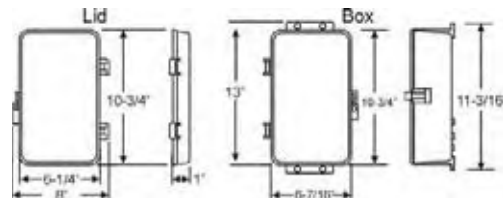
"RELIABLE FOUR FUNCTION CONTROLS"
FF-1094 SERIES

•Offers a simple and reliable four function control for any two pieces of equipment with one air button. Control distance up to 150 feet (depending on air button used).

•FF-1094TC and FF-1094LTC includes a reliable, easily operable internal time clock with a manual override.

•The FF-1094LTC also includes an auxiliary circuit for an additional piece of equipment which is controlled by a second air button.

NEW
Enclosure Design!



ITEM # DESCRIPTION

FOUR FUNCTION (Air Buttons Sold Separately)

910100-007 FF-1094 120/240V, 20Amp Circuit, 1 to 2HP

Four function control to operate two pieces of equipment with single air button.

(Will control a single or two-speed pump and blower. External time clock adaptable. Neutral required.)

910105-001* FF-1094F 240V, 20Amp Circuit, 1 to 2HP

Same as FF-1094. (No Neutral required.)

910106-007 FF-1094TC 120/240V, 20Amp Circuit, 1 to 2HP

Same as FF-1094 with built-in 24-hour time clock. Time clock is easily programmable in 15-minute increments. (Neutral required.)

910108-007 FF-1094LTC 120/240V, 20Amp Circuit, 1 to 2HP

Same as FF-1094TC plus an auxiliary circuit. Auxiliary circuit is controlled by second air button to operate third piece of equipment on/off. (Neutral required.) Item #990400-000 Latch kit for metal box

900022-001* FF-2PL 120V, 20Amp Circuit, 1HP

Four function control to operate a two-speed pump, blower and 1.5kw heater with single air button. (Neutral required.)



***Limited to stock on hand. Call for availability.**

FF-1094 INTERNALS ONLY

810100-0 FF-1094 120/240V, 20Amp Circuit, 1 to 2HP
Internal control for FF-1094

810106-0 FF-1094TC 120/240V, 20Amp Circuit, 1 to 2HP
Internal control for FF-1094TC

810108-0 FF-1094LTC 120/240V, 20Amp Circuit, 1 to 2HP
Internal control for FF-1094LTC (Will fit in FF-1000LTC box)



Enclosure only available. Call for information!

FF-1000R INTERNALS ONLY (Retro-fit)

810000-0 FF-1000R 120/240V, 20Amp Circuit, 1 to 2HP
Internal control to fit original FF-1000 enclosure.

810006-0 FF-1000TCR 120/240V, 20Amp Circuit, 1 to 2HP

Same as FF-1000R with built-in 24-hour time clock. Time clock is easily programmable in 15-minute increments.



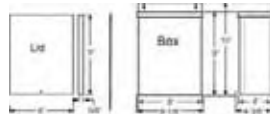


TWO & THREE FUNCTION CONTROLS

NEW
Enclosure Design!



Dimensions
 (AS-5 Lid & Box)



Please Note: Any unit that is dual voltage requires a neutral. AS-TC enclosure dimensions are same as previous page.

•Time tested and versatile.

•Unsurpassed safety air switches. Perfect for use in wet environments such as swimming pools, spas, jetted tubs, steam baths or water-intensive manufacturing processes.

•Control distance up to 150ft (depending on air button used).

•Operates either a single or two-speed piece of equipment.

ITEM # DESCRIPTION

ON/OFF CONTROLS (Air Buttons Sold Separately)

923100-001 ES-COMBO 120/240V, 20Amp Circuit, 1 to 2HP

On/Off control to operate a single piece of equipment. (Maximum air tubing distance is 15ft. Must use a LGC #10 or #15 button only.) Replaces JTS & BTS series. Must enlarge button hole to 1 3/8".

921305-001 AS-MULTI COMBO-95 120/240V, 20Amp Circuit, 1 to 2HP

On/Off control to operate a single piece of equipment with optional external time clock. (Will control single or two-speed pump. Neutral required.)

922005-001 AS-2-95 240V, 20Amp Circuit, 2HP

On/Off control to operate a single piece of equipment. (No neutral required.)

922990-001 AS-5 240V, 1 to 3 Phase, 50Amp, 5 to 10HP

On/Off control to operate higher amp or commercial electrical equipment.

VALVE CONTROL (Air Buttons Sold Separately)

921450-001 AS-V Combo With Transformer 120/240V, 16Amp

Operates one or two 24V motorized valves. Has built-in step-down 24V transformer. (See page 211 for valves and actuators)

TIME CLOCK CONTROLS (Air Buttons Sold Separately)

923055-007 AS-TC-94 120/240V, 20Amp Circuit, 1 to 2HP

On/Off control with built-in time clock. Operates single piece of equipment. (Will control single or two-speed pump. Neutral required.)

923065-007 AS-TCTD 120/240V, 20Amp Circuit, 1 to 2HP

On/Off control with built-in time clock and 10-minute time delay. Time clock controls low speed, air switch with time delay controls high speed. (Will control single or two-speed pump. Neutral required.)

923070-007* AS-TCTD-30 120/240V, 20Amp Circuit, 1 to 2HP

Same as AS-TCTD with 30-minute time delay.

**Limited to stock on hand.*

TWO-SPEED CONTROL (Air Button Sold Separately)

923305-001* 3F-95 120/240V, 20Amp Circuit, 1 to 2HP

Three function control to operate two-speed pump or any two pieces of equipment. (Neutral required.)

**Limited to stock on hand.*

TIME DELAY CONTROLS (Air Buttons Sold Separately)

921805-001 AS-TD Combo-95 120/240V, 20Amp Circuit, 1 to 2HP

On/Off control with 10-minute time delay. Operates single piece of equipment. (Neutral required.)

921810-001 AS-TD Combo-95-30 120/240V, 20Amp Circuit, 1 to 2HP

On/Off control with 30-minute time delay. Operates single piece of equipment. (Neutral required.)

922992-001 AS-5TD-10MM 240V, 1 to 3 Phase, 50Amp, 5 to 10HP

Same as AS-5 with 10-minute time delay. (No neutral required.)

922994-001 AS-5TD-30MM 240V, 1 to 3 Phase, 50Amp, 5 to 10HP

Same as AS-5 with 30-minute time delay. (No neutral required.)

PARTS CROSS-REFERENCE GUIDE

MODELS	MODEL AVAILABILITY	VOLTAGE	AIR SENSOR	LATCHING RELAY/ STEPPERS	*DPDT	*3PDT	**STEPPER	ELECTRICALLY HELD RELAYS	*SPST	*DPDT	CONTACTOR	CIRCUIT BOARD	NOTES
3F-95	CURRENT	120/240^	(1) 860010-0	(1) 410122-0	(1) 410123-0								
ES-COMBO	CURRENT	120/240^	(1) 860016-0										
AS-1, AS-1HL/DT & AS-1LG	OBSOLETE	120	(1) 860010-0	(1) 410122-0									
AS-1HTRVA-DT & AS-1TD	OBSOLETE	120	(1) 860010-0		(1) 410123-0								
AS-2 & AS2HL/DT	OBSOLETE	240	(1) 860010-0		(1) 410243-0								
AS-2HTRVA-DT	OBSOLETE	240	(1) 860010-0		(1) 410243-0								
AS-2-95	CURRENT	240	(1) 860010-0		1) 410243-0								
AS-5	CURRENT	240	(1) 860010-0	(1) 410242-0							(1) 410310		
AS-5TD-MM & TF SERIES	MM CURRENT TF SERIES OBSOLETE	240	(1) 860010-0 (1) 400006 Soldered		(1) 410243-0						(1) 410310	10MM-725834-0 30MM 725835-0	TF & MM PCB'S DO NOT INTERCHANGE
AS-MULTI COMBO 95	CURRENT	120/240^	(1) 860010-0		(1) 410123-0								
AS-TC COMBO	OBSOLETE	120/240^	(1) 860010-0		(1) 410123-0								TC NLA
AS-TC-94	CURRENT	120/240^	(1) 860010-0	(1) 410122-0									TC 430065
AS-TC9D	CURRENT	120/240^	(1) 860010-0	(1) 410128								10 MM 725065-0 30 MM 725070-0	TC 430065
AS-TD COMBO-95	CURRENT	120/240^	(1) 400006 SOLDERED		(1) 410128							10-TF 725805-0 30-TF 725806-0	TF & MM PCB'S DO NOT INTERCHANGE
AS-V COMBO W/ TRANSFORMER	CURRENT	120/240^	(1) 860010-0		(1) 410320-0								420030 TRANSFORMER
AUX-2-95	OBSOLETE	240									(1) 410126-0		
FC-3	OBSOLETE	120								(1) 410121-0			T-STAT NLA
FC-5SS-95	CURRENT	120/240^								(1) 410134			T-STAT 734020-0
FC-5SS-95 240	CURRENT	240								(1) 410241-0			T-STAT 734030-0
FC-6SS-TC	OBSOLETE	120/240^								(1) 410134			T-STAT 734020-0 TC 430065

PARTS CROSS-REFERENCE GUIDE (continued)

MODELS	MODEL AVAILABILITY	VOLTAGE	AIR SENSOR	LATCHING RELAY/ STEPPERS	*DPDT	*3PDT	**STEPPER	ELECTRICALLY HELD RELAYS	*DPDT	CONTACTOR	CIRCUIT BOARD	NOTES
FF-2PL	CURRENT	120	(1) 860010-0	(1) 410122-0		(1) 410125-0						
FF-1000	OBSOLETE	120/240 [^]	(1) 860010-0				(1) 810000-0 INTERNAL ONLY					
FF-1000LTC	OBSOLETE	120/240 [^]	(2) 860010-0	(1) 410122-0			(1) 810108-0 FF-1094 LTC INTERNAL					TC NLA
FF-1000TC	OBSOLETE	120/240 [^]	(1) 860010-0				(1) 810006-0 INTERNAL ONLY					TC NLA
FF-1094F	CURRENT	240	(1) 860010-0	(1) 410242-0	(1) 410243-0							
FF-1094	CURRENT	120/240 [^]	(1) 860010-0	(1) 410122-0	(1) 410123-0							
FF-1094TC	CURRENT	120/240 [^]	(1) 860010-0	(1) 410122-0	(1) 410123-0							TC 430065
FF-1094LTC	CURRENT	120/240 [^]	(2) 860010-0	(2) 410122-0	(1) 410123-0							TC 430065
FF-30-1	OBSOLETE	120	(1) 860010-0		(1) 410123-0	(1) 410125-0			(1) 410121-0	(1) 5-00-0040		
FF-30-1ALTC	OBSOLETE	120	(2) 860010-0	(1) 410122-0	(1) 410123-0	(1) 410125-0			(1) 410121-0	(1) 5-00-0040		TC NLA
FF-32ALTC	OBSOLETE	120/240 [^]	(2) 860010-0	(1) 410122-0				(1) 410120-0		(2) 5-00-0040		TC NLA
FF-32ALTC-90	OBSOLETE	120/240 [^]	(2) 860010-0		(1) 410123-0			(1) 410120-0	NLA	(1) 5-00-0040		TC NLA
HL-30-1	OBSOLETE	120/240 [^]	(1) 860010-0	(1) 410122-0				(1) 410121-0		(1) 5-00-0040		
HL-32ALTC	OBSOLETE	120/240 [^]	(2) 860010-0	(2) 410122-0				(1) 410120-0	NLA	(2) 5-00-0040		
HL-32ALTC-90	OBSOLETE	120/240 [^]	(2) 860010-0					(1) 410120-0		(1) 5-00-0040		
MM-1	CURRENT	120/240 [^]	(1) 860016-0									
MM-1-TD	CURRENT	120	REPLACE	ENTIRE	UNIT							
MM-2-TDF	CURRENT	240	REPLACE	ENTIRE	UNIT							
RA-3B ALTCO	OBSOLETE	120/240 [^]	REPLACE	WITH CP1-04	3-70-5013							TC NLA
TWIN AIR & TWIN AIR TC	OBSOLETE	120 [^]	(2) 860010-0	(1) 410122-0	(1) 410123-0					TC NLA		
[^] Indicates a NEUTRAL REQUIRED (120V/240V)												
*SPST - Single Pole, Single Throw				*SPDT - Single Pole, Double Throw			*3PDT - 3 Pole, Double Throw					
*DPST - Double Pole, Single Throw				*DPDT - Double Pole, Double Throw								
** STEPPER RELAYS NO LONGER IN PRODUCTION				TC= TIME CLOCK								



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Len Gordon • Spa Builders Systems • Gecko • Aeware
Aqua-Flo • Brett Aqualine ... and Much More!

REFERENCE: ALLIED INNOVATIONS, LLC CONTROL REPLACEMENT CROSS-REFERENCE

DISCONTINUED

AS-1
AS-1LG
AS-1HL/DT
AS-2HL/DT
AS-2HLTC AUTO
AS-TC COMBO
CP-104
FC-2
FC-3
FC-4
FC-5
FF-1, FF-8, FF-9, FF-10, FF-12, FF-14
FF-2
FF-7, FF-11, FF-13
FF-100
FF-200
FF-100TC
FF-200TC
FF-300TC
FF-1000
FF-1000TC
FF-1000LTC
FF-2000-6K Series
HL/FF-30 & HL/FF-32 Series
LX-05 Control Heat Transfer Unit
LX-15 Outdoor Unit

ST/CTA 1
TWIN AIR
TWIN AIR TC
RA-3B-ALTCO

* Not a direct replacement

REPLACEMENT

AS-MULTI COMBO-95
AS-MULTI COMBO-95 & G.F.C.I BREAKER
AS-MULTI COMBO-95
*AS-MULTI COMBO-95 (Neutral Required)
AS-TCTD 99 (Neutral Required)
AS-TC 94
CALL FOR REPLACEMENT
FC-5SS-95 120/240V
FC-5SS-95 120/240V
FC-5SS-95 120/240V
FC-5SS-99
FF-1094
FF-2PL
FF-1094F
FF-1094
FF-1094
FF-1094TC
FF-1094TC
FF-1094LTC
FF-1094 OR FF-1000R INTERNAL ONLY
FF-1094TC OR FF-1000TCR INTERNAL ONLY
FF-1094LTC OR FF-1094LTC INTERNAL ONLY
CALL THE FACTORY FOR REPLACEMENT
CALL FOR REPLACEMENT
Balboa Heat Jacket System 3-70-0805 and Topside 3-00-8023
Hydroquip Outdoor Pack 3-80-0300 (11kw)
or Hydroquip Outdoor Pack 3-80-0305 (5.5kw)
HT-1000Y2K with Micro Topside
AS-MULTI (2 units)
AS-MULTI and AS-TC
CALL FOR REPLACEMENT

REFERENCE: RETRO-FIT / REPLACEMENT CROSS-REFERENCE WITH OTHER MANUFACTURERS

ALLIED INNOVATIONS

3F-95
AS-2-95
AS MULTI-COMBO-95
AS-TC 94
AS-TCTD
AS-TD COMBO-95
ES-COMBO
MM-1
MM-1TD-99
FF-1094
FF-1094TC
FF-1094LTC

INTERMATIC

RC-21235
RC-21125
RC-2103S
RC-2101PT
RC-2113ST
RC-213ST
RC-2103E
RC-2103E
RC-2101ET
RC-2301P
RC-2301PT
RC-2491RT



FC SERIES

**“RELIABLE FREEZE CONTROLS
 FOR ALL YOUR POOL/SPA NEEDS”**



FREEZE CONTROLS

- FC Series has available freeze protection for one piece of equipment or entire pool/spa systems
- Operates one pump or two-speed pump system
- Solid state thermostat adjustable from 32°F to 100°F (+/- 1°F)
- Our single time clock model extends the protection for pool and spa combinations
- 8' sensor cable

ITEM#	MODEL	RATINGS	DESCRIPTION
FREEZE CONTROLS			
924350-001*	FC-5SS-95	120/240V, 20AMP, 1 to 2HP	Adjustable set point from 32°F to 100°F (+/- 1°F) with solid state thermostat. (This model is adaptable to 240V installations; Neutral required)
924452-001*	FC-5SS-99	240V, 20AMP, 2HP	Adjustable set point from 32°F to 100°F (+/- 1°F) with solid state thermostat. (No neutral required)

**Limited to stock on hand.*



HEAT TRANSFER CONTROLS

•Designed specifically for pump motor Heat Transfer Systems.

•Redesigned to allow customization for your application.

Need to specify EACH item separately when ordering:



ITEM#	MODEL	RATINGS	DESCRIPTION
HEAT TRANSFER CONTROLS			
936540-001	HT-1000-Y2K WITH GFCI CORD	120V, 15AMP, 1HP	On/Off Control with 10-minute time delay and hi-limit reset. (Use with Micro Topside-Y2K only. Pkg with tubing only.)
936550-003*	HT-2000-Y2K WITH 10' CORD	240V, 20AMP, 2HP	On/Off Control with 10-minute time delay and hi-limit reset. (Use with Micro Topside-Y2K only. Bulk.) <i>*Limited to stock on hand.</i>

ITEM#	DESCRIPTION	FACEPLATE
931213-000	Micro-Topside Y2K 1-Button deck control temperature control and hi-limit reset with 3 indicator lights. Use with HT-1000-Y2K Series. See page 75.	930113-101 (sold separately)
951590-607	#15 “Classic Touch™” Air Button Complete Assembly - Black (sold separately). See page 171.	

CORD ASSEMBLIES

730945-0	Cord	110V, Pump	Plug-in cord assembly for Pump, 3.25', 110V. (Use with HT-1000-Y2K or HT-1002 only)
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JETTED TUB CONTROLS

TF SERIES

**"SIMPLE, ON/OFF UL LISTED
REMOTE AIR-ACTUATED
CONTROLS"**

- Versatile control to operate (1) 120V piece of equipment (includes garbage disposal unit).
- Easy to install. Plugs directly into any standard 120V household wall outlet.
- Available in On/Off or On/Off with a 10-minute time delay and Water Level Sensor ready.
- Designed to withstand 220°F ambient conditions.
- Utilizes the #15 "Classic Touch"™ Air Button for activation.
(See page 171 for details.)
- 10' tubing included in packaging. Contact our Customer Service Department for OEM bulk packaging and pricing information.

TF SERIES CONTROLS

ITEM #	DESCRIPTION
910800-001	TF-1 120V, 15Amp, 1HP On/Off control with NEMA plug and socket. (Maximum air tubing distance is 15ft. Must use an LGC #10 or #15 button only.) (Pkg)
910820-001	TF-1TD 120V, 15Amp, 1HP On/Off control with built-in 10-minute time delay and Water Level Sensor ready. NEMA plug and socket.
910822-001	TF-1TD-20 120V, 15Amp, 1HP Same as TF-1TD with 20-minute time delay.
910825-001	TF-1TD, 2 MIN, 120V, 15Amp, 1HP Same as TF-1TD with 2-minute time delay.
910900-003	TF-1TDE 120V, 10Amp, 1HP Electronic version of the TF-1TD with NEMA plug and socket. Use Wire Assembly with chrome sensors (Item #761930-0) or Wire Assembly with brass sensors (Item #761941-0)
960090-000	Water Level Sensor 6'/TF-1 Sensor connects to TF-1TD Series (senses water thru tub wall) For use with TF-1TD Series only. Designed for acrylic, fiberglass and cultured marble jetted tubs with a wall thickness of 1/4 to 1 inch.
810400-0*	ETD-10-MS 120V



*Limited to stock on hand.



JETTED TUB CONTROLS

MM SERIES CONTROLS

- Offers your customer a choice of motor control options.
- Available in motor or wall mount configurations.

ITEM # DESCRIPTION

910500-001* MM-1 120V/240V, 20Amp,
 On/Off control to operate single piece of equipment. Mounts on motor.
 (Maximum air tubing distance is 15 ft. Must use an LGC #10
 or #15 button only.)
 May be replaced with a wall mount ES-Combo item #923100-001.



910530-001 MM-1TD-99 120V, 15Amp, 1HP
 On/Off control with 10-minute time delay and Water Level
 Sensor ready. Designed to operate single piece of equipment.
 Mounts on motor.



910535-001 MM-1TD-W-99 120V, 15Amp, 1HP
 Same as MM-1TD-99 except wall mount.

Technical Note: Replaces WL-1. Must also purchase
 Water Level Sensor (item #9600092-000). WL-1 has clear
 tubing on back side that will need to be plugged.

910630-001* MM-2TDF-99 240V, 20Amp, 2HP
 On/Off control with 10-minute time delay and Water Level
 Sensor ready. Designed to operate single piece of equipment.
 Mounts on motor.



910635-001 MM-2TDF-W-99 240V, 20Amp, 2HP.
 Same as MM-2TDF-99 except wall mount.



960092-000 Water Level Sensor-MM99/MS
 Sensor connects to MM-99 (senses water thru tub wall).
 Designed for acrylic, fiberglass, and cultured marble
 jetted tubs, with a wall thickness of 1/4 to 1 inch.



**Limited to stock on hand.*



JETTED TUB CONTROLS

LITE STREME SERIES

ITEM # / MFG #	DESCRIPTION
910826-001 / 0101-200026	LS-120P-PP-2.5 2 minute timer with Nema Plug
910828-001 / 0101-200023	LS-120P-PP-WR 20 minute timer with Nema Plug
910827-000 / 0101-001007	SW-LS-WH-GE1 (White) Button Switch Used with Lite Streme
910829-001 / 0101-002008	SW-LS-CR-GE1 (Chrome)



GARBAGE DISPOSAL CONTROLS

ITEM #	DESCRIPTION
910800-001	TF-1 120V, 15Amp, 1HP On/Off control with NEMA plug and socket. (Maximum air tubing distance is 15ft. Must use an LGC #10 or #15 button only.) (Pkg) <i>Please Note:</i> Utilizes the #15 "Classic Touch"™ Air Button for activation. (See page 171 for details.)



923120-004	ES-2P 120V with 6' Cord
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3-70-5022	TF1 with White Button & Satin Nickel Trim Clamshell Display Package
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LENNOVATOR™ For Your Pool & Spa Applications!



RADIO FREQUENCY HAND-HELD CONTROL

•Displays water temperature, status of jets, lights and auxiliaries.

•Transmitting and receiving distance of 200 feet with no line of sight required.

•Uses a alkaline 9V Battery and includes a battery saver time-out (sleep) mode feature to preserve life of battery.

Designed & Patented with Simplicity and Reliability in Mind!

- Operates up to 8 pieces of equipment including (5) 2HP motors.
- No hard wiring panels required. Perfect for Retrofits!
- Complete system operation with two-way communication on monitoring/feedback from master control panel or hand-held control.
- Single-timer system controls low speed or filter pump.
- Second time clock kit available.
- Individual control of spa and pool temperature, jets, spa light and pool light.
- Three auxiliary circuits to control any 120 or 240 Volt, 2HP or less equipment.
- Automatic 30-minute shut-off of Jets and Aux 1; 4-hour shut off of Spa Light, Aux 2 and Aux 3. Note: Each time out circuit can be disabled.
- Built-in freeze protection circuit (additional freeze control not required).
- Built-in fireman heater protection - heater will turn off and pump will continue to operate for 2 minutes. This option can be disabled.
- UL & CUL Listed for outdoor use.
- U.S. Patent No. 6,900,736

ITEM # DESCRIPTION

Package Options

921107-001	Lennovator™ + Remote + 2nd TC Kit
921120-001	Lennovator™ + Remote + Antenna Kit (Replaced #921105-001)
921125-001	Lennovator™ + Remote + Antenna Kit + (2) 24V Actuators (Replaced #921110-001)

Items Also Sold Separately

133100	Caddy Remote, Lennovator™
921100-001	Lennovator™ Pool and Spa Control with Built-In Master Panel (Hand-Held Remote Sold Separately)
933100-000	Hand-Held Remote, Lennovator™
933150-000	Remote Antenna Kit, Lennovator™
933200-000	Service Panel, Lennovator™
933300-000	Time clock kit (for second time clock option)
933400-000	24V actuator time clock kit

MAX RELAY LOAD

K1: Low Pump	240 VAC	2HP MTR
	120 VAC	1HP MTR
K2: High Pump	240 VAC	2HP MTR
	120VAC	1HP MTR
K3: Aux 1	240 VAC	30AMP RES
	120 VAC	30AMP RES
K4: Aux 2	240 VAC	30AMP RES
	120 VAC	30AMP RES
K5: Aux 3	240 VAC	30AMP RES
	120 VAC	30AMP RES
K6: Light	240 VAC	10AMP RES
	120 VAC	10AMP RES
K7: Ozonator	120 VAC	10AMP RES
K9: Pool Valve	24 VAC	1/3HP
K11: Pool Valve	24 VAC	1/3HP
K12: Heater	120 VAC	1/3HP

DIMENSIONS:

Height:	15 1/4"
Length:	16 1/2"
Depth:	5"

AUTOPILOT SYSTEMS INC.

PURIFYING SYSTEMS

- More purifier output than any other unit
- up to 2lbs./day
- Utilizes patented bypass manifold for optimum chlorine production
- Patented temperature compensation
- 24 & 72 hour boost cycles
- Operates at any water temperature up to 104°
- Operates at all salt levels -
2,000-35,000 ppm
- Lifetime trade-in value on cell
- Front panel quick reference guide
- Soft reverse cell cleaning
- Push button controls



ITEM # / MFG #
921201-000 / 75001

DESCRIPTION
Autopilot Pool
Chemistry Control

ITEM # / MFG #
921203-000 / 75005

DESCRIPTION
Pump/Tank System
240V-60Hz



921205-000 / 75008 Acid Pump Relay Box

ITEM #	DESCRIPTION
921200-020	Autopilot Manifold with SC-36 Cell & Base (20,000 GAL)
921200-040	Autopilot Manifold with SC-48 Cell & Base (40,000 GAL)
921200-050	Autopilot Manifold with SC-60 Cell & Base (50,000 GAL)

Bundle Package Option with Lennovator™ + 2 (24V) Actuators

921130-001	Lennovator™ with Remote, Antenna Kit, 2 Actuators and Autopilot SC-36 (Replaced #921145-001)
921135-001	Lennovator™ with Remote, Antenna Kit, 2 Actuators and Autopilot SC-48 (Replaced #921150-001)
921140-001	Lennovator™ with Remote, Antenna Kit, 2 Actuators and Autopilot SC-60 (Replaced #921155-001)

POOL PILOT™ DIGITAL



ITEM # / MFG #	DESCRIPTION
921210-000 / 79500	SpaPilot Kit Over-the-Wall



921210-502 / 79502	SpaPilot Starter Blend
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921210-503 / 79503	SpaPilot Power Pouch (16/Jar)
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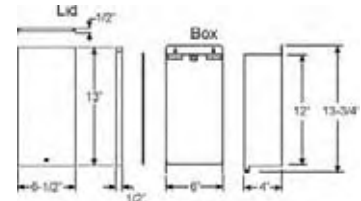
BL-40 SERIES IN-GROUND ELECTRONIC SPA CONTROLS

- New and improved technology to integrate all spa functions into one efficient spa system.
- Operate either 2-single speed pumps or 1-dual speed pump, light, blower and heater.
- Provides total system activation.
- Allows control of the spa from spa-side or in-house control panel.
- Replaces the Brett Aqualine / Catalina BL-40 Control)



Shown (Left to Right):
 BL-40TC Control Module
 BL-40 Control Module

Dimensions:



ITEM # DESCRIPTION

- 921030-001 BL-40TC
 240V, 16Amp Operates up to 5 pieces of equipment with built-in time clock.

Spa-Side Controls for BL-40 Series

Choose from either designer style spa-side to fit your application:

ITEM # DESCRIPTION

BL- "C" = Compact Series 3 7/8" x 2 1/8"

- *24-300005 BL-C-5 Compact Spa Side, 5' cord
 24-300025 BL-C-25 Compact Spa Side, 25' cord
 24-300050 BL-C-50 Compact Spa Side, 50' cord
 24-3000125 BL-C-125 Compact Spa Side, 125' cord

***Limited to stock on hand.**

Item #030030A

T'stat Knob Assy RSPO (Black/ Grey)



BL- "S" = Standard Series 6 3/4" x 2 3/4"

- 24-310025 BL-S-25 Standard Spa Side, 25' cord
 24-310050 BL-S-50 Standard Spa Side, 50' cord
 24-3100125 BL-S-125 Standard Spa Side, 125' cord

Item #790250-0

T'stat Knob Assy BL-S / BL-M



In-House Master Control for BL-40 Series

- Set spa temperature from within your home.
- Select either pool or spa operation mode.
- Enable or lock-out the spa side control panel, eliminating unauthorized spa operation.
- Control the pool light and/or spa light from inside the house.

BL- "M" = Master In-House Series 6 3/4" x 2 3/4"

- 24-320050* BL-M-50 Master In-House Panel, 50'
 24-3200125* BL-M-125 Master In-House Panel, 125'

***Limited to stock on hand.**



Topside Accessories / Replacement Parts

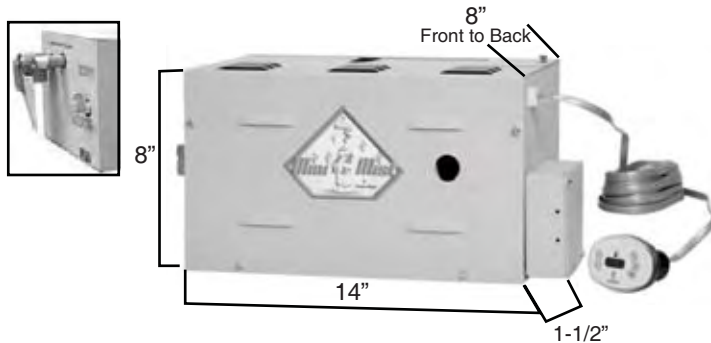
- 030030A T'stat Knob Assy RSPO (Black/Grey)
 790250-0 T'stat Knob Assy BL-S/BL-M
 990110-000 Adapter Kit, PWB A98
 990400-000 Latch kit for metal box



STEAM GENERATOR

MINI MIST™ STANDARD SERIES

MODELS: MM-35, MM-50, MM-65, MM-75, MM-90



"MAXIMUM RELAXATION WITH MINIMUM HASSLE"

- An exhilarating hideaway of warm, swirling vapors that embrace the body and reward the senses

- A luxurious escape that relieves tension from sore muscles while purifying and rejuvenating the skin for a healthier look and feel.

- Installed wherever there is an adequately enclosed area with accessible water and electrical connections.

- The generator may be installed within 40 feet of your enclosure. The steam head is molded to hold your favorite essential oils and aromatherapy which is released on contact with steam vapors.

Note: Certain wall materials, excessive glass, ceilings over 8', inadequate insulation or adjoining outside walls may require that a larger model than the cubic feet be used.

- Front panel and top are one piece to allow easy field access to circuitry if needed.

- Exclusive features include two interchangeable steam outlets (side or top) and troubleshooting indicator lights (self analysis).

- All plumbing and electrical installed outside generator in junction box for external in-field wiring. No need to enter unit.

Steam Generator Model does not include Accessory Kit. Need to specify EACH item separately when ordering.

ITEM# / MFG#	MODEL	MAXIMUM CUBIC FEET CAPACITY	KW	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE SIZE
911935-000 / 92-92035	MM-35	60	3.5	240	1	15	20A	12AWG
911950-000 / 92-92050	MM-50	80	5.0	240	1	21	30A	10AWG
911965-000 / 92-92065	MM-65	140	6.5	240	1	27	40A	8AWG
911975-000 / 92-92075	MM-75	220	7.5	240	1	31	40A	8AWG
911990-000 / 92-92090	MM-90	300	9.0	240	1	38	50A	8AWG

ITEM # / MFG

911910-000 / 90-6825

DESCRIPTION

MM Accessory Kit (Chrome)

Kit Includes: Programmable digital timer and temperature control assembly, 1 gasket, 1 white oval timer overlay, 1 tube silicone, 1 25' modular telephone cable and 1 each 1/2" steam head and escutcheon in your choice of 12 finishes. Call for individual item numbers.



JETTED TUB CONTROLS

JETTED TUB ASSEMBLY KIT

ITEM #	DESCRIPTION
3-80-5050	Jetted Tub Kit Includes: •120V, 3/4 HP, 7.2Amps, Full Rated Pump •Set of 2 Union Tees - Females •Push Button - White •5 feet of Air Tubing •6 Complete Pro Jet Assemblies - White •Side Mount Air Control Assembly •Suction Assembly



Miscellaneous Parts and Accessories for the Jetted Tub Kit

1-05-0380	Replacement Pump
5-60-9040	Suction Wrench
5-60-9045	Jet Head Wrench



SAFETY VACUUM RELEASE SYSTEMS (SVRS)

The Model SR-500 is a Safety Vacuum Release System (SVRS) which works by monitoring the vacuum on the influent side of the pool or spa pump. When a blockage occurs in the main drain or skimmers, a sudden rise in vacuum will cause the SR-500 to shut down pump operations and activate an audible alarm. The pump will remain off with the alarm sounding until manually reset.



- Can Be Installed Quickly and Easily by Your Local Pool and Spa Professional
- No Pipes to Cut or Glue
- Works with All Existing Pool and Spa Pumps and Controllers
- Meets All Current Building Codes & Standards for New & Existing Pools and Spas
- Turns Pump Off in Milliseconds and Sounds an Audible Alarm

ITEM # / MFG #	DESCRIPTION
3-70-0117 / SR-500	Stingl Switch Solid State (SVRS) for Residential or Commercial, Pool & Spa Entrapment. 120/240V, 1/2 HP to 3 HP Pumps & Higher
3-70-0118 / SR-500PS	Stingl Switch Solid State (SVRS) Pool & Spa Combination Unit for Residential or Commercial, Pool & Spa Entrapment. 120/240V, 1/2 HP to 3 HP Pumps & Higher



CIRCUIT BOARDS

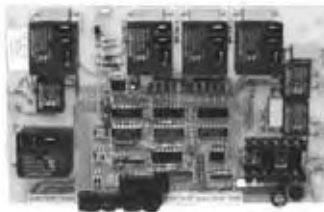
BL-40 Universal Accessories

Item #	Description
990110-000	8 to 9 Pin Topside Adapter
990160-000	Temperature Sensor, 20'
450080D	BL-40 PCB only
82580D-0	BL-40 PWBA Replacement Kit

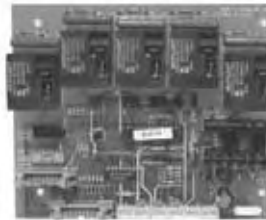
Spa side controls see [page 53](#).



Item #82580D-0
BL-40 Universal Replacement Kit



Item #34-5007
BL-70 Circuit Board



Item #34-5015-0
BL-50 Circuit Board



Item #34-5005*
BL-80 Circuit Board
**Limited to stock on hand.*



Item #34-5021*
BL-45 Relay Circuit Board



Item #34-5019*
BL-45 Control Circuit Board

**Limited to stock on hand.*

Technical Note: When handling circuit boards and/or EPROM chips you must be grounded at all times preferably either by a wrist grounding strap or anti-static mats. Static discharge can cause failure of these sensitive components which could possibly void the warranty.

SPA BUILDERS

CIRCUIT BOARDS

LX-05 CIRCUIT BOARD

ITEM #	DESCRIPTION
3-60-0168	PCB Assy LX-05 Main; Rev 8.01

Technical Note:
 F1 Fuse 1.25A 5-60-0260



LX-10 CIRCUIT BOARDS (For Sundance or Sweetwater - See page 69)

ITEM #	DESCRIPTION
3-60-0122	LX-10 Numeric Rev 1.31 (Pre 2001)

Technical Note:
 F1 Fuse 1.25A 5-60-0260



3-60-0120	LX-10 Alpha Rev 5.31
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LX-15 CIRCUIT BOARDS (For Sundance or Sweetwater - See page 69)

ITEM #	DESCRIPTION
3-60-0123	LX-15 Numeric Rev 1.31 (Pre 2001) Also used for the LX-20 Plus Circuit Board Rev 1.31

Technical Note:
 F1 fuse 1.25A 5-60-0260
 F4 fuse 4.0 A 5-60-0308



3-60-0119	LX-15 Alpha Rev 5.31
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U-10
Chip

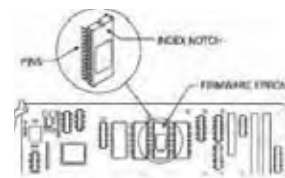


3-60-0165	LX-15 with Extended Software Rev 5.31 for 25' or 50' topsides
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For Additional LX-10 & LX-15 Circuit Boards, refer to page 69.

SPABUILDERS

CIRCUIT BOARDS



EPROM CHIPS LX-10/ LX-15

LX10/15	NUMERIC EQUIVALENT: TOPSIDE NLA	REPLACE T.S & CHIP TO		ALPHA EQUIVALENT	
		SUNDANCE / ARTESIAN	3-60-1052	R5.03 LX10/15 ALPHA	
3-60-1059	R1.31 LX10/15 NUMERIC	SBSG PRE 2000	3-60-1087	R5.31 LX-10/15 ALPHA	SBSG POST 2000
5-60-1066	R2.51 LX10/15 NUMERIC	FOR AZ PACIFIC	3-60-1096	R7.51 LX-10/15 ALPHA	
5-60-1067	R2.26 LX10/15 NUMERIC				
5-60-1069	R1.76 LX10/15 NUMERIC				
5-60-1077 Use #5-60-1069	R1.77 LX-10/15 NUMERIC	FOR WINDRIVER W/ CIRC	3-60-1092	R6.77 LX-10/15 ALPHA	
3-60-1083	R1.56 LX-10/15 NUMERIC	FOR RIDGEWOOD W/ CIRC	3-60-1099	R6.56 LX-10/15 ALPHA	
	SBSG PCB ONLY	HIGH TEMP W/O CIRC	3-60-1090	R5.26 LX-10/15 ALPHA	
	SBSG PCB ONLY	HIGH TEMP W/ CIRC	3-60-1111	R6.26 LX-10/15 ALPHA	
			3-60-1102	R6.15 LX-10/15 CIRCULATION SOFTWARE	

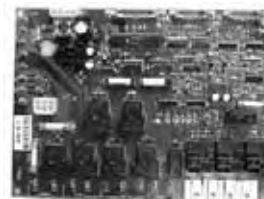
Technical Note: When handling circuit boards and/or EPROM chips you must be grounded at all times preferably either by a wrist grounding strap or anti-static mats. Static discharge can cause failure of these sensitive components which could possibly void the warranty.

LX-20 CIRCUIT BOARDS

ITEM# DESCRIPTION

SD6600-055 LX-20 Numeric 1 Pump
Reworked: 3-60-0029R LX-20 1 Pump. Subject to availability.

SD6600-053 LX-20 Numeric 2 Pump
Reworked: 3-60-0012R LX-20 2 Pump. Subject to availability.



LX-25 / LX-30 CIRCUIT BOARDS

3-60-0047* LX-25 Alpha / LX-30 Alpha
Board sold without chip.
Please have chip revision number if needed.

***Limited to Stock on Hand.**

Chip Number Reference

5-60-9003	Chip Extractor	Chip Sets Stocked w/o Chip Extractor (5-60-9003)
3-60-1038	LX-30 R032P2S	Hansen, Seven Seas, US Tooling
3-60-1034	LX-30 012P2SC	Dynasty
3-60-1048	LX-30 R042P2S	
3-60-1116	LX-25 R052P2S	US Tooling w/circ
3-60-1035	LX-25 R042P2S	AZ Pacific, Hansen, Ridgewood, US Tooling



Time Chip

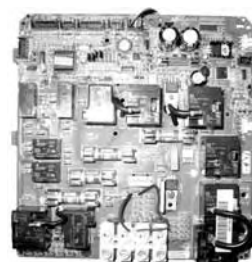
3-60-1037	Dallas Chip Obsolete	Use SD6760-024
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CIRCUIT BOARDS

MSPA CIRCUIT BOARDS

ITEM #	MFG #	DESCRIPTION
3-60-6040	0201-300045	MSPA-1, 2 & 4 Board Replacement MSPA-1, 2 & 4 with Transformer & Probes Board and Cable Kit
3-60-6042	9920-200526	Board TSPA-MP Replace all TSPA-MP board Pump 1, Pump2, Ozone, Fiber optic



3-84-7007	0201-300014	MSPA-MP Board Replacement Board Assembly Kit MC-MP-SG without cables Replaces most MSPA-MP boards.
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Please Note: If you are unable to locate the board you are looking for, please contact our Customer Service Department with model & options for additional information.

Technical Note: Always check for voltage with peripherals plugged in.

For additional information on transformers, please take note of primary voltage & secondary connection plug arrangement, see page 73



Factory Direct for Genuine Brand Products

Len Gordon • Spa Builders Systems • Gecko • Aeware
Aqua-Flo • Brett Aqualine . . . and Much More!



CIRCUIT BOARDS

Model	Type	Pump1	Pump2	Blower	Ozone	Circ. Pump	Light	No error	Heater	Other	Connector	Custom
MAS	-SSPA	-XX	-P1XX	-P2XX	-BXX	-0XXX	-LXX	-NE	-HXXX.X	-XXX	-XXX	-XXX

MSPA												
MC-MP												
SC-CF												
SC-MP												

MODEL:
MSPA-1-P122-P222-B1-O1-
ID NUMBER: 0201-2070011

OPTIONS:

CP1-NE-LS-FB-H5.5-T2-AMP-PPD

It is imperative to have the following identification information.
If this cannot be found, the EPROM Chip is required to identify your control.
ie: 9936-100287A

MAS Board provided w/o enclosure

SSPA Mid-range pack
-1 w/ 2 Outputs
-MP Meta Pack w/ 3 Outputs
-CF Custom Fixture
-P11X Pump1 one speed
-P12X Pump1 two speed
-P1X1 Pump1 120V
-P1X2 Pump1 240V
-P211 Pump2 one speed 120V
-P212 Pump2 one speed 240V
-B1 Blower 120V
-B2 Blower 240V
-O1 Ozone 120V
-O2 Ozone 240V
-CP1 Circ Pump 110V
-CP2 Circ Pump 220V
-NE No error code on the display
-LS 1-12V Light
-LS2 2-12V Lights
-H1.0 Heater Horizontal, 2 1/2", 1KW
-H2.0 Heater Horizontal, 2 1/2", 2KW
-H3.6 Heater Horizontal, 2 1/2", 3.6KW
-H4.0 Heater Horizontal, 2 1/2", 4.0KW
-H5.5 Heater Horizontal, 2 1/2", 5.5KW
-HP Heater Plug J&J, 6 pins
-RL Pump Connector configured Red on the low speed
-I1 Unit dedicated 120V
-T2 Transformer 240V
-FB1 Connector 120VAC for fiber box (always on)
-NW Board provided without cable and probe
-LCD Board used with LCD top side and On/Off switch on Aux I/O
-TSC TSC on AUX I/O
-CE Canadian / Euro
-JJC J&J Mini connector Color coded
-JJM J&J Mini connector
-AMP AMP connector
-ABX Two letters (customer name letter) to designed custom feature
-XX1 Number to designed different version for a customer

TSC = TOPSIDE CONTROL
K = TOPSIDE CONTROL
MFG = CANADA
MFG = USA

TSC-18-AD-GE1 IS SAME AS K-18-AD-SBD



CIRCUIT BOARDS

TSPA CIRCUIT BOARDS

ITEM # / MFG #	DESCRIPTION
3-60-6030 / 9920-200547	TSPA-1-P12-P22-01-L-NE-A1-A2 Replaces all TSPA-1 boards.



SPA BUILDERS SYSTEMS / GECKO CIRCUIT BOARD CABLES & ACCESSORIES

ITEM # / MFG #	DESCRIPTION	KEY REF
3-05-6001 / 9920-400436	Extension Cable 15' For Keypads	1
5-40-6001 / 9920-400448	Light Indicator For Relay Output (Snubber Tester)	2
5-60-6013 / 9920-400520	Cable Dual Auxiliary For 12C (COM Cable)	3
5-60-6014 / 5-50-7196	Cable Output Heater 3" (1.5", Mfg#5-50-7195)	4



1



2



3

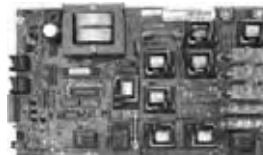
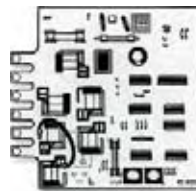


4



CIRCUIT BOARDS

ITEM #	MFG #	DESCRIPTION
3-60-0023	51230	Duplex Analog Board
3-60-0024	54091	Super Duplex Digi BD/M1 Series
3-60-0025	54161	Value System PC Board
3-60-0026	52295	2000LE System PC Board





CIRCUIT BOARDS (*continued*)

ITEM #	MFG #	DESCRIPTION
3-60-0030	52532-01	SUV M7 System PC Board
3-60-0031	50179	6UR Sundance Analog Board
3-60-0032	50795	724 Series Sundance Board
3-60-0033	50533	F106/107 Serial Deluxe Board
3-60-0034	51429	H276 Analog Duplex Board 2 Pump
3-60-0035	50920	H716 Duplex Digital Board
3-60-0036	54071	Board Simplex 240V 1-Speed

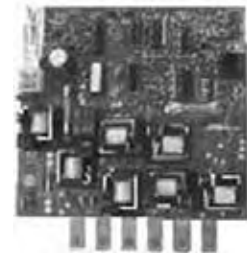
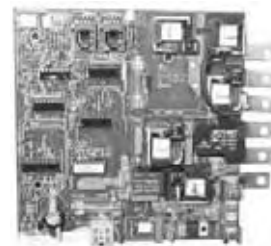
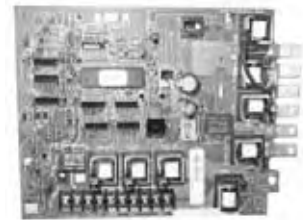
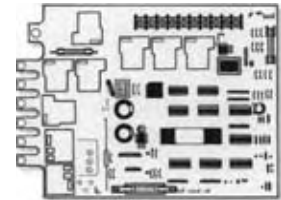
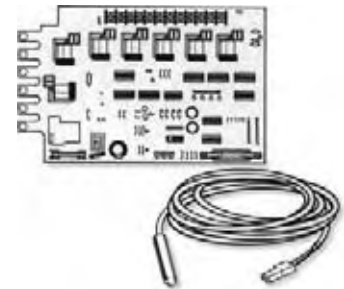
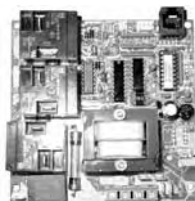
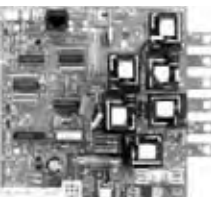
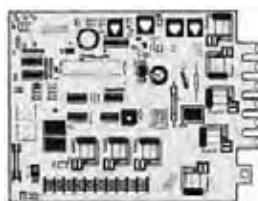


Photo
Unavailable



CIRCUIT BOARDS *(continued)*

ITEM #	MFG #	DESCRIPTION
3-60-0038	53247	Heat Jacket PCB 
3-60-0041	50162	624 Replacement 
3-60-0042	52399	Board S826 Jacuzzi Advantage 
3-60-0048	53858	Board EL8000 Mach 3 
3-60-0049	54003	Board, Duplex Digital 

ITEM #	MFG #	DESCRIPTION
3-60-0054	54115	Board, Lite Leader L/120V Hot Plug 
3-60-0057	52076	Board, Balboa M7 for STD or Deluxe 
3-60-0060	52914	Board 2000LE Digi Pressure Switch Tech Photo Unavailable
3-60-0065	51511	Board, Saratoga 200 Photo Unavailable
3-60-0066	50532	Board F108/109 Jacuzzi Photo Unavailable
3-60-0067	51678-01	Board, CAT200 Series Deluxe Photo Unavailable

CRL / RAMCO CIRCUIT BOARDS / CONTROL CANS

ST-2115 & ST-2240

Low Voltage Switching Systems

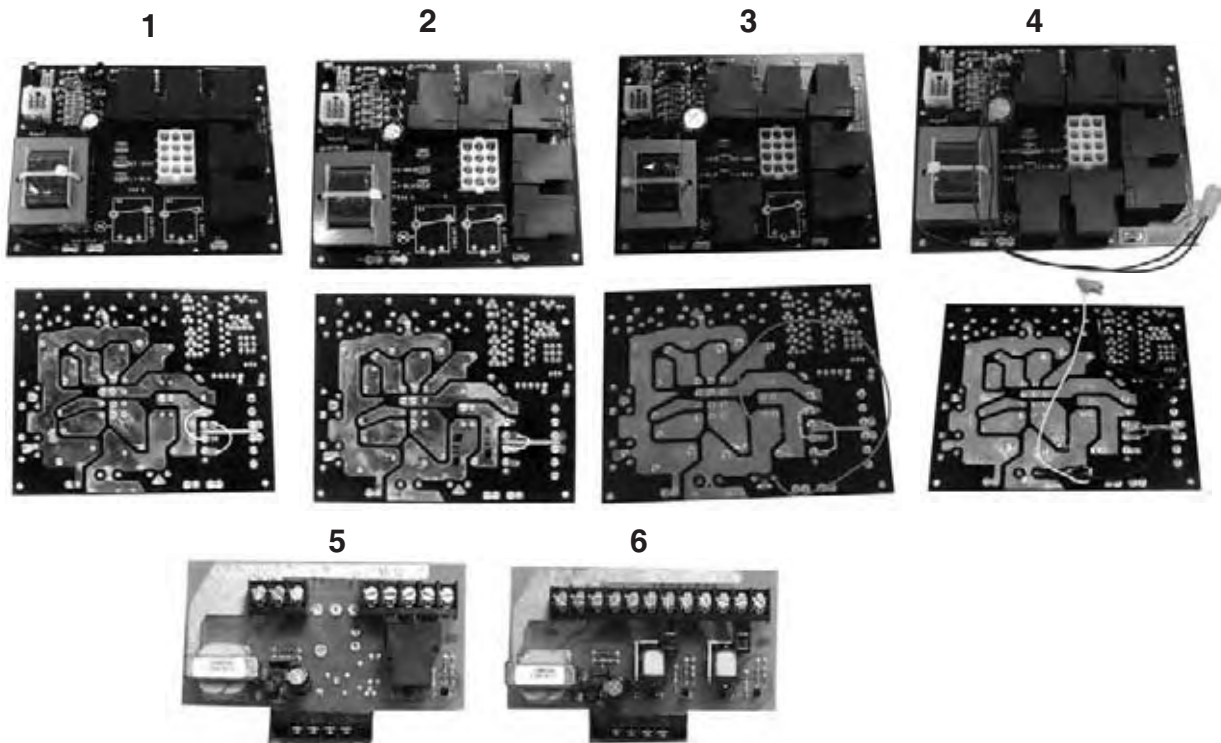
Uses ST-1200 & EP-1200 2, 3 & 4 Button Topsides - Refer to [page 87-88](#).

ITEM # / MFG #	V LOAD	AMP	PUMP	KEY REF
3-60-0003 / ST-2115	110V	N/A	N/A 1 Pump	1
3-60-0004 / ST-2240	240V	N/A	N/A 1 Pump	2
3-60-0009 / ST-2115	110V	N/A	N/A 2 Pump	3
3-60-0017 / SD-2115**	110/240V	N/A	N/A 1 Pump	4
3-60-0001 / ST-401	110V	1 Load	20A	5
3-60-0002 / ST-402	110V	2 Load	20A	6

Additional Accessories

3-50-0001	Control Can ST401
3-50-0002	Control Can ST402
5-00-0015	Replaces: CV 2000 Circuit Board Replacement Contactor Kit
5-30-0020	Transformer 6V
5-60-0001	12 pin Male Harness
5-60-0002	6 pin to 9 pin Spa Side Adapter
5-60-0135	ST270 Magnetic Interlock
5-60-0225	12 Pin Female Harness
5-00-0023	6V Relay without Dust Cover
3-85-0032	ST800 Freeze Control

**Specify hot tub manufacturer. This board is stocked to work with Sundance, CRL & Suncoast.



Technical Note: When handling circuit boards and/or EPROM chips you must be grounded at all times preferably either by a wrist grounding strap or anti-static mats. Static discharge can cause failure of these sensitive components which could possibly void the warranty.

HYDROQUIP™ CIRCUIT BOARDS

ITEM # / MFG

DESCRIPTION

3-60-5050 / 33-0014A-R8

MAS-WH3-120-NW-NE-HQ3
 PCB ECO-1
 Digital Software version
 9936-100412A replaces
 version 9936-100093F



3-60-0043 / 33-0025-R7

Digital Ultimate Universal 8-key



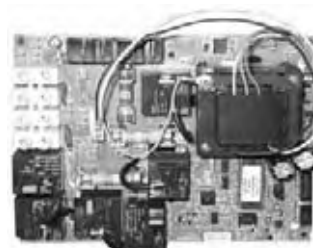
3-60-0044 / 33-0010-R8

Digital Deluxe Universal 8-key



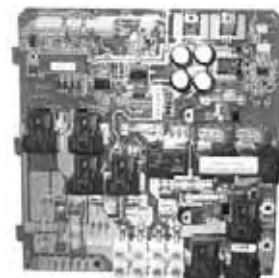
3-60-0045 / 33-0024-R6

Digital ECO-2, 120V



3-60-0046 / 33-0023-R3

Digital Standard, 240V



3-60-0050 / 33-0024-B-R4

PCB Digi ECO-3 120V



Technical Note: When handling circuit boards and/or EPROM chips you must be grounded at all times preferably either by a wrist grounding strap or anti-static mats. Static discharge can cause failure of these sensitive components which could possibly void the warranty.

HYDROQUIP™ **CIRCUIT BOARDS** (*continued*)**ITEM # / MFG #****DESCRIPTION**

3-60-0052 / 33-0012

PCB, DIG U-Series 120V

3-60-0053 / 33-0012A

PCB, DIG U-Series 240V, 50Hz



3-60-0055 / 33-0027-R1

PCB, DIG Outdoor Univ 8-Key



3-60-0056 / 33-0018-R5

PCB, DIG Std, 120V Special



3-60-0058 / 33-0025A-R8

PCB, DIG, MP, UNIV, 10-Key



Sundance Spas CIRCUIT BOARDS

ITEM # / MFG

SD6000-702 / 6000-702



DESCRIPTION

7UR

Replaces 701 & 724
Series Boards

ITEM # / MFG

3-60-0047 / 6600-059*



DESCRIPTION

750

Rev 4.00B
without Perma
Clear (Sold without
Chip)

Rev. 4.50 D Chip

SD6500-476 / 6500-476

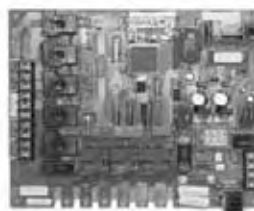


6UR

with Hi Limit Sensor
Replaces all
601 - 605 Series
Boards 505

Technical Notes: Boards
6600-027 and 6600-059 (#5 & #6) boards are
identical but use different micro chips.

3-60-0047 / 6600-027*



750

1998: Rev 4.50C
or Higher with
Perma Clear (Sold
without Chip)

SD6600-032 / 6600-032

400

Direct Replacement
of #6600-031 Board
Includes 1992 600
Series

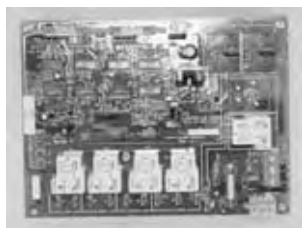
SD6660-263

Rev 4.00 C Chip

SD6600-032R / 6600-032R

Reworked Model
400 when available

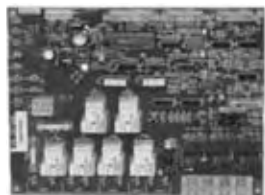
*Call for Replacement Options



Technical Note: Be Careful !!!! - 750,800,850
circuit boards do not use a relay for the
blower circuit. A defective blower attached to
a replacement board can take out the triac
circuitry. This is not covered under any warranty.
Make sure your blower is in good working order
prior to re-attaching it to the circuit board.

600/650 (Includes all 400's after 10/8/94)

SD6600-053 / 6600-053



Replaces 6600-033
(2 pump)
Rev DXP-1-2;
Rev DXP-2-2
Reworked
3-60-0012R when
available

SD6600-055 / 6600-055

Replaces 6600-043
(1 pump)
Rev DXP 1-1;
Rev DXP 2-1

***Use the following for any Sundance product.**
Please have tub model and manufacture date
to insure correct parts are ordered. Sundance
boards are available re-worked. Please call us for
additional information.

Technical Notes: Boards 6600-053 and 6600-
055 are identical but use different Pal Chips.
Modification on heater relays is required when
updating boards (6600-043/6600-033) to new style
boards (6600-053/6600-055).

Sundance Spas CIRCUIT BOARDS (*continued*)

ITEM # / MFG #
3-60-0122 / 6000-218

DESCRIPTION
LX-10
Sweetwater/Portofino Series
Rev. 1.31



SD6600-013 / 6600-013

800 Rev 1.25C
1995: 1 or 2 pumps with Perma Clear

SD6600-014 / 6600-014

850 Rev 1.27
1995: 1 or 2 pumps without Perma Clear
Replaces: 1993 - 800

SD6600-014R / 6600-014R

Reworked when available

SD6600-040 / 6600-040

800 Controller Rev 1.24
1994: 1 or 2 pumps with Perma Clear



Technical Notes: Boards 6600-013, 6600-014 and 6600-040 boards are identical but use different micro chips.

SD6600-017 / 6600-017

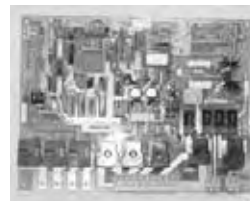
800 (2 Pump) Rev 1.28
1995-1996: With Perma Clear

SD6600-017R / 6600-017R

Reworked Model when available

SD6600-018 / 6600-018

850 Rev 1.29
1995-1997: Without Perma Clear



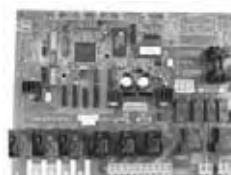
SD6600-021 / 6600-021 /
80210

800 Rev 50P
1991-1992: 1 or 2 pumps with Perma Clear
Replaces: 6600-010



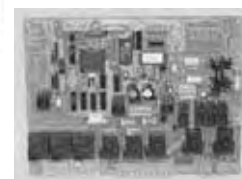
SD6600-023 / 6600-023

850 Rev 1.30B
1999 or newer: With Iso Pure



SD6600-028 / 6600-028

850 Rev 1.28
1997 or newer: With Perma Clear



Technical Note: Be Careful !!!! - 750,800,850 circuit boards do not use a relay for the blower circuit. A defective blower attached to a replacement board can take out the triac circuitry. This is not covered under any warranty. Make sure your blower is in good working order prior to re-attaching it to the circuit board.

1 PUMP SWEETWATER / PORTOFINO / DEL SOL CIRCUIT BOARDS (1998 +)

2000+ 780 1 PUMP / 850E / SWEETWATER / PORTOFINO /
 DEL SOL
 LX-10 Series with 3 Large Relays

Software Revision's 5.03, 5.52, 5.54 No Circulation Pump
 SD6600-289 (Replaces 6600-082, 6600-089)

Software Revision's 6.16, 6.17, 3.54, 3.56 with Circulation Pump
 SD6600-286 (Replaces 6600-084, 6600-085, 6600-086)

1999 PORTOFINO (SOLO ONLY)
 LX-10 Series With 3 Large Relays
 Please Provide Software Revision Number



2000+ 780 2 PUMPS / SWEETWATER
 LX-15 Series With 4 Large Relays

Software Revision's 5.03, 5.52, 5.54 No Circulation Pump
 SD6600-287 (Replaces 6600-083, 6600-087)

Software Revision's 6.16, 6.17, 3.54, 3.56 With Circulation Pump
 SD6600-288 (Replaces 6600-088)



1998 -1999 SWEETWATER

LX-10 Series With 5 Ice Cube Relays

Software Revision's 1.23, 1.31 No Circulation Pump

3-60-0122 (REV 1.31)

Please note topsides for the 1.23, 1.31 software revisions are no longer available. If topside is also in question, Replace PCB with 3-60-0120 (Rev 5.31) & 3-00-0139 peanut style or 3-00-0193 Rectangle 4 Button Alpha Topside (Replaces 6000-218)



LX-15 SERIES 7 OR 8 ICE CUBE RELAYS

Software Revision's 1.23, 1.31 No Circulation Pump

3-60-0123 (REV 1.31) Please note topsides for the 1.23, 1.31 software revisions are no longer available. If topside is in question also, replace PCB with 3-60-0119 (rev 5.31) & 3-00-0194 5 Button Alpha Topside (Replaces 6000-217)





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Aqua-Flo • Brett Aqualine ... and Much More!

Sundance Spas BOARD MATRIX

YEAR	MODEL	BOARD	DESCRIPTION
1983	301 - 110 VAC	6500-227	Unavailable, upgrade to 6UR Board #6500-476
	301 - 220 VAC	6500-231	
1984	501	N/A	System upgrade to 6UR Board #6500-476
1985	552	N/A	
	553	N/A	
1984 - 1985	601 / 602	6500-476	Must have 6560-865 timer upgrade
1986	603	6500-476	600 universal replacement board
1987	604		
1988 - 1990	605		
1988 - 1990	624	6500-528	Fits 624 system only
1989	505	6500-476	600 universal replacement board
1989 - 1990	701 / 724	6000-702	700 universal replacement
1989 - 1991	701/724 Inground	6000-702	700 Inground Systems
1991	600	6000-560	
	Suncoast	6000-561	CRL faceplate (circuit board and power transformer attached)
	Suncoast SE	6000-562	
1991 - 4/93	800	6600-021	Rev. 50P, 1 & 2 pumps (replaces 6600-010 1-pump board)
1992	600-S	6600-032	This is also a 400 board
	Suncoast SE		
	Suncoast		
	Montego LX	6600-033	2 pump 600 LED board, unavailable use 6600-053 board
1993* - 1994	400	6600-032	All 240 VAC system
*After 10/94 all 400 series used 6600-043 board except Montego; 6600-043 board replaced by 6600-055 board			
1993 - 1994	600 LED	6600-033	2 pump system, unavailable, use 6600-053 board
		6600-043	1 pump system, unavailable, use 6600-055 board
1993 - Present	850 Inground	6600-018	Will Retrofit 6600-014 board



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Sundance Spas BOARD MATRIX (continued)

1993	800	6600-030	Unavailable, use 6600-014 board
1994		6600-040	Rev. 1.24C, 1 & 2 pumps with PermaClear
1991 - 9/92	800 Inground	6600-021	Also Order Updated Eprom Rev. 50G 6660-254
10/93 - 1998		6600-014	without PermaClear
1992-1995	400 Montego	6600-033	2 pump system, unavailable use 6600-053 board
1995	400 Tango	6600-043	1 pump system, unavailable use 6600-055 board
1993 - 8/95	600 / 650	6600-033	2 pump system, unavailable use 6600-053 board
		6600-043	1 pump system, unavailable use 6600-055 board
1995	850	6600-013	Rev. 1.25C - with PermaClear
		6600-014	Rev. 1.27C - without PermaClear
9/95 - 5/31/97	600 / 650	6600-053	2 pump system, retrofits 1993-95 400 boards w/chip change
		6600-055	1 pump system, retrofits 1993-95 400 boards w/chip change
10/95 - 1996	850	6600-017	Rev. 1.28FB - w/PermaClear
10/95 - 12/97		6600-018	Rev. 1.29E or higher - w/o PermaClear (or Inground Spas)
4/96-4/98	Suntub DV/SV	6600-032	This is also a 400 board
6/1/97 - 12/31/99	750	6600-059	Rev. 4.00C w/o PermaClear (Includes 98-99 Tango Systems)
		6600-027	Rev. 4.50D or higher w/PermaClear (Not for Tango Systems)
1997 - 2000	850 Sundance	6600-028	Rev. 1.28GX or higher - w/PermaClear
1998-1999 Topsides NLA	Sweetwater, 1 Pump Marked SBSG-LX-10	3-60-0122 Rev 1.31	REV 1.23 Vail, Aspen, Austin, Telluride, Olympia and Cheyenne 5 cube relays
Inquire about replacements	Sweetwater, 2 Pump Marked SBSG-LX-15	3-60-0123	REV 1.31 Hartford and Madison w/ 8 cube relays not available.
1999 - 2000	850 Maxxus	6600-023	Rev. 1.30B or higher - w/IsoPure
2001	850 Sundance NT	6600-056	Rev. 1.28K or higher - w/PermaClear
2002+		6600-092	Rev. 9.50B or higher - w/PermaClear



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Sundance Spas BOARD MATRIX (continued)

2001	850 Maxxus NT	6600-057	Rev. 1.30D or higher - w/PermaClear
2002+		6600-094	Rev. 9.60B or higher - w/PermaClear
1999 Portofino	No Circ pump Rev 2.15	3-60-0098R	Solo only LX-10 w/ 3 big relays. Sold without chip, reworked only.
All LX Series boards after 2000 marked Spa Builders will be replaced by the boards listed below			
01/00-05/00	Circ pump Rev 3.54 (Rev 6.16)	6600-084	Caprio, Tango, and Solo; unavailable, use #6600-286 board
06/00 - 2001	Circ pump Rev 3.54 (Rev 6.16)	6600-085	Caprio, Caprio ST, Tango, and Solo, use #6600-286 board
2002-2003	Circ pump Rev 3.54	6600-286	Caprio, Caprio ST, Tango, and Solo LX-10 w/ 3 big relays
2004+	Circ pump Rev 3.54	6600-286	Caprio, Metro, and Solo LX-10 w/ 3 big relays
2000-2001 Sweetwater, 2 Pump	No Circ pump Rev 5.54 (Rev 5.03)	6600-082	Cyprus, Aruba, and Bali, unavailable, use #6600-289
2002, 1 Pump	No Circ pump Rev 5.54	6600-289	2002 Cyprus, Aruba, and Bali LX-10 w/ 3 big relays
2000-2001 Sweetwater, 2 Pump	No Circ pump Rev 5.54 (Rev 5.03)	6600-083	Palermo and Bahia use 6600-287
2002, 2 Pump	No Circ pump Rev 5.54	6600-287	Palermo and Bahia (Rev 5.54 or Higher Eprom) LX-15 w/ 4 big relays
2003+ 1 Pump + Circ	Circ pump Rev 3.54	6600-286	Lagunas (Rev. 3.54 or higher Eprom) LX-10 w/ 3 big relays
2003+ Del Sol	No Circ pump Rev 5.54	6600-289	Redondo and Hermosa (Rev. 5.54 or Higher Eprom) LX-10 w/ 3 big relays
2003+	Circ pump Rev 3.54	6600-288	Palermo, Bahia, and Cayman (Rev. 3.52 or higher Eprom) LX-15 w/ 4 big relays

DO NOT USE LX SERIES SPA BUILDERS BOARDS ON SUNDANCE / SWEETWATER / JACUZZI TUBS

**Please Contact our Technical Service Department at
(800) 772-7257 for Availability of Rebuilt Boards.**

**For additional Sundance information, troubleshooting assistance,
product specifications, etc., visit [http://www.sundancespas.com/
CustomerCare/Manuals.php](http://www.sundancespas.com/CustomerCare/Manuals.php)**

TECHNICAL NOTE: When handling circuit boards and/or EPROM chips you must be grounded at all times preferably either by a wrist grounding strap or anti-static mats. Static discharge can cause failure of these sensitive components which could possibly void the warranty.

TRANSFORMERS



ITEM#	DESCRIPTION
420030	Transformer, UET 105, 120/240V-24VAC Used in AS-V Combo/Lenlevator.



LX System Transformers

ITEM#	DESCRIPTION
5-30-0056	LX-10/15 with Plug, 110V systems
5-30-0052	LX-10/15 with Plug, 220V systems
5-30-0053	LX-20 with Plug
5-30-0041	LX-25/30 with Plug



Technical Note: Voltage Readings: Red to Black 220V, Black to White 115V, Yellow to Yellow 12V

SPA BUILDERS SYSTEMS / GECKO System Transformers

ITEM#	MFG#	DESCRIPTION
5-30-7000	9920-100212	^ Transformer with 2 plugs, 110v 5 pin / 4 pin
5-30-7002*	9920-100153	^ Transformer with 2 plugs, 110v 5 pin / 4 pin
5-30-7001*	9920-100152	^ Transformer with 2 plugs, 240v 5 pin / 4 pin
5-30-7003	9920-100225	^ Transformer with 2 plugs, 240v 5 pin / 4 pin
5-30-7009	9920-100020	Transformer with 1 plug, 120v 7 pin
5-30-7010	9920-100050/9920-100095	Transformer with 1 plug, 240v 7 pin
5-30-7018	560AA0427	Transformer 115/0/12/21.5 VAC 30VA Wire S- Class
5-30-7019	560AA0430	Transformer 220/0/12/21.5 VAC 30VA Wire



Please Note:
 5 pin / 4pin fits MP
 "Metapack"
 7 pin fits MSPA 1,2,4

**Limited to stock on hand.*

^Denotes Interchangeable.

Technical Note: Voltage Readings: Yellow To Blue 12VAC, Yellow To Red 24VAC



ITEM# / MFG#	DESCRIPTION
5-30-0061 / 30270-1	Transformer 120V
5-30-0060 / 30274-1	120V Duplex Transformer
5-30-0062 / 30274-2	240V Duplex Transformer



TRANSFORMERS (*continued*)

Sundance Spas

ITEM#	DESCRIPTION
SD6000-023	240VAC - 12VAC 89-90-624-724
SD6560-272	240VAC - 12VAC 91-94 400/600/600S, 4/96-up Suntub, 6600-032 PCB
SD6560-274	240VAC - 12VAC 95-up 600/600LED, 650, 750, 800 LX-10, LX-15, LX-20, EP-1-600 w/o Plug
SD6560-278	120VAC - 12VAC 84-90 601-605, 89-90 701
SD6660-200	240VAC - 12VAC 91-92 6600-010 OR 6600-021 PCB



Technical Note: Voltage Readings:
 Black to Red 220V
 Black to White 115V
 Yellow to Yellow 12V
 Blue to Blue 9V

Brett Aqualine Digital Power Transformer. See page 196.

HYDROQUIP™

ITEM# / MFG#	DESCRIPTION
5-30-0010 / 48-0099D	Transformer 240V

Photo
Unavailable

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at



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 Gecko • Catalina Controls • CRL • Premier • Ramco

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An added bonus includes a **90-day warranty** for the items offered in our program at **no additional cost**. Items are limited and subject to availability and cannot be combined with any other promotional offer.

If you are not receiving our monthly promotions via fax or email, please let us know if you would like to be added to our mailing list.



TOPSIDE CONTROLS

HEAT TRANSFER TOPSIDE CONTROLS

ITEM #	DESCRIPTION	FACEPLATE ITEM #
931213-000	Micro-Topside Y2K 1-Button deck control temperature control and hi-limit reset with 3 indicator lights. (Faceplate and #15 button sold separately.) Use with HT-1000-Y2K Series.	930113-101



DIGITAL TOPSIDE™

- Easy-to-read LED temperature display.
- Available in 120V, 240V and 12V (Fahrenheit and Celsius) installations.
- Easily fits into any control equipped with a 6-pin receptacle.
- Can be used for upgrade and OEM applications.
- Direct retro-fit for other topside controls.
- Faceplate included. (Custom faceplates available. Call for details.)

*“Providing Quality Performance with
 The Only True Digital Thermometer &
 Solid State Thermostat Built in One”*



ITEM # DESCRIPTION

DIGITAL TOPSIDE™, 2-BUTTON

932226-120	Digital Topside™ 1-2, 120V (Fahrenheit), 6' cord
932226-240*	Digital Topside™ 2-2, 240V (Fahrenheit), 6' cord
932229-120	Digital Topside™ 1-2, 120V (Fahrenheit), 10' cord

DIGITAL TOPSIDE™, 3-BUTTON

932336-120	Digital Topside™ 1-3, 120V (Fahrenheit), 6' cord
932336-240	Digital Topside™ 2-3, 240V (Fahrenheit), 6' cord
932338-240	Digital Topside™ 2-3, 240V (Celsius), 6' cord
932339-120	Digital Topside™ 1-3, 120V (Fahrenheit), 10' cord

DIGITAL TOPSIDE™, 4-BUTTON (Shown above)

932446-012	Digital Topside™ 12-4, 12V (Celsius), 6' cord
932446-240	Digital Topside™ 2-4, 240V (Fahrenheit), 6' cord
932449-120	Digital Topside™ 1-4, 120V (Fahrenheit), 10' cord

Note: Temperature probe is 5/16" diameter.



TOPSIDE CONTROLS (continued)

AQUA-SET SERIES

- Features a precise solid-state thermostat and sensing bulb.
- Adaptable to most spa equipment packs and OEM applications.
- Easily fits into any control equipped with a 6-pin receptacle.
- Faceplates included. (Custom faceplates available.)

**"TIME PROVEN AND A GREAT VALUE
FOR NEW PORTABLE SPA
INSTALLATIONS OR RETROFIT
APPLICATIONS"**



Shown Above: Aqua-set
2-Button & 4-Button

ITEM # DESCRIPTION

AQUA-SET, 2-BUTTON WITH 5/16" CAP

930626-516	2001-2SS	120V, 6' Cord
930630-516	2001-2SS	120V, 10' Cord
930726-516	2002-2SS	240V, 6' Cord

AQUA-SET, 3-BUTTON WITH 5/16" CAP

930736-516	4001-3SS	120V, 6' Cord
930740-516	4001-3SS	120V, 10' Cord
930836-516	4002-3SS	240V, 6' Cord
930840-516	4002-3SS	240V, 10' Cord

AQUA-SET, 4-BUTTON WITH 5/16" CAP

930746-516	4001-4SS	120V, 6' Cord
930750-516	4001-4SS	120V, 10' Cord
930846-516	4002-4SS	240V, 6' Cord
930850-516	4002-4SS	240V, 10' Cord

Note: Temperature probe
is 5/16" diameter.

AQUA-SET FACEPLATES

930222-201	2-Btn Faceplate	2001/2002-2SS (Four-function light)
930243-401	3-Btn Faceplate	4001/4002-3SS (Four-function light)
930244-401	4-Btn Faceplate	4001/4002-4SS (Four-function light)



ITEM # 990126-516

DESCRIPTION

Button Diaphragm Kit
2000/4000 & Len Gordon
Digital Topside

TOPSIDE DIMENSIONS:

4000 / Digital

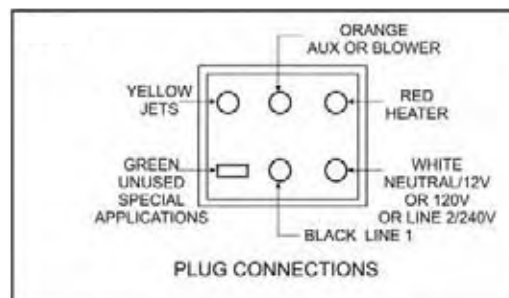
Cutout: 2 5/8" x 7 7/16"

Finished Size: 3 3/8" x 8"

2000

Cutout: 2 5/8" x 5 11/16"

Finished Size: 3 3/8" x 6 1/2"





TOPSIDE CONTROLS

See page 53 for the following BL-40 Series Topsides (BL-M; BL-C and BL-S Series)

ITEM # / MFG

DESCRIPTION

RSP1 Slimline

080240*

10' cord, 9 Pin Molex Connector



BL-70 Spa-side



ITEM # / MFG

DESCRIPTION

FACEPLATE

3-00-5003 / 24-4211E1

Topside 2P/ 2SB/ 1L, 5'

3-00-5011 / 24-4211-05R-81

Topside 2P/ 1SB/ 1L, 5'/ 8Btn

3-05-5017

3-00-5019 / 24-4211-05R-01

Topside 1P/ 1SB/ 1L, 5'/ 7Btn

3-05-5016

3-00-5020 / 24-421110

Topside 2P/ 1SB/ 1L 10'

3-00-5023 / 24-4211825

Topside 2P/ 1SB/ 1L 25'

BL-70 Dimensions: Cutout = 5.87"W x 1.88"H; Finished Size = 6.62"W x 2.63"H

BL-46 Spa-side

ITEM # / MFG

DESCRIPTION

3-00-5008 / 24-4811A/24-4811-05L-A* BL-46 Topside



Please Note: BL-45 Series, BL-46 Series, BL-50 Series, BL-60 Series and M-100 topside controls are no longer available. Refer to chart below for replacements.

REPLACEMENT RECOMMENDATIONS FOR OLDER BRETT DIGITAL UNITS			
BRETT OBSO MODEL	FUNCTIONS	REPLACEMENT	NOTES
BL45,50	1P,O,L	SCLASS (item #3-72-7078 / -7079)	Cords & topside not included
BL50	1P,B,O, L	SCLASS (item #3-72-7078 / -7079)	Cords & topside not included
BL46,60,80	1P,B,O,L	SCLASS (item #3-72-7078 / -7079)	Cords & topside not included
BL46,50,60,80	2P,B,O,L	SCLASS (item #3-72-7036)	Cords & topside not included
KEY			
1P = 1 PUMP	B= BLOWER	L = LIGHT	
2P = 2 PUMPS	O = OZONE		

SPABUILDERS

TOPSIDE CONTROLS

LX-10 Series (Also Available in Size: 5 3/4" x 2" & Cutout: 4 15/16" x 1 1/8")



ITEM #	DESCRIPTION	LENGTH	REVISION	SIZE	CUTOUT
3-00-0077	4 Button (Peanut) Numeric No Longer Available. Use 3-00-0139 & 3-60-1087.	6'	Rev 1.31	4 1/4" x 2 1/2"	2 7/8" x 1 3/8"
3-00-0139	4 Button (Peanut) Alpha	6'	Rev 5.31	4 1/4" x 2 1/2"	2 7/8" x 1 3/8"

Please note: Alpha revision EPROM chip #3-60-1087

LX-15 Series

SIZE	CUTOUT
7 3/8" x 3 1/4"	5 7/8" x 2 1/8"



Numeric Rev 1.31 (No Longer Available)

ITEM #	DESCRIPTION
3-00-0099(<i>obso</i>)	4 Button, Pump & Light = USE 3-00-0193 & 3-60-1087 (5.31 chip replacement kit)
3-00-0071(<i>obso</i>)	5 Button, Pump, Blower & Light = USE 3-00-0190 & 3-60-1087
3-00-0081(<i>obso</i>)	5 Button, 2 Pumps & Light = USE 3-00-0194 & 3-60-1087
3-00-0076 (<i>obso</i>)	6 Button, 2 Pumps, Blower & Light = USE 3-00-0140 & 3-60-1087

Alpha Rev 5.31 (Available in Oval Shape) - See page 79 LX-20 Plus Series)

3-00-0193	4 Button, 6' Pump & Light
3-00-0190	5 Button, 6' Pump, Blower & Light
3-00-0194	5 Button, 6' 2 Pumps & Light
3-00-0140	6 Button, 6' 2 Pumps, Blower & Light

Faceplates

Item #3-05-0195 5 Button
Item #3-05-0196 6 Button

Remote Capable (For use with LX Series Remotes on page 79)

3-00-0239	5 Button, 6' Pump, Blower & Light
3-00-0205	6 Button, 6' 2 Pumps, Blower & Light

Please note: have EPROM chip revision number available when ordering a replacement topside. Also, advise if cord length is 6', 25' or 50'.

Extended Alpha Rev 5.31

3-00-0221	6 Button, 25' 2 Pumps, Blower & Light; No Remote Cable
3-00-0223	6 Button, 25' 2 Pumps, Blower & Light; Includes Remote Cable
3-00-0210	6 Button, 50' 2 Pumps, Blower & Light; No Remote Cable
3-00-0224	6 Button, 50' 2 Pumps, Blower & Light; Includes Remote Cable
3-00-0286	5 Button, 50' 1 Pump, Blower & Light; Includes Remote Cable



Please note: To operate an extended cable run, the P.C.B. must have a U-10 chip soldered on it (#3-60-0165 P.C.B.)

Miscellaneous Accessories

3-00-8000	Topside Adapter Plate 4 1/2 x 11 OD ; 2 3/8 x 4 3/8 ID
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SPABUILDERS

TOPSIDE CONTROLS *(continued)*

LX-20 Series

(Size: 7" x 3 1/4" ; Cutout: 5 3/4" x 2")
 SD6600-693 4 Button, 6 Foot

3-00-0147 Remote Topside
 Limited Supply Available.



SD6600-693



3-00-0147

LX-20 Plus Series* / LX-15

(Size: 7 3/8" x 3 1/4" ; Cutout: 5 7/8" x 2 1/8")
 Alpha Rev 5.31

3-00-0196 5 Button, 1 Pump, No Remote
 3-00-0225 5 Button with Remote (1 Pump)
 3-00-0267 6 Button, 3 Pumps, 50' Cable

**All Topsides in the LX-20 Plus Series Must Be Ordered with Item #3-60-1087 EPROM Chip.*



LX Series Remotes

Use 3 Button Remote with LX-15, 25 & 30 Topsides with 12' Remote Cables

(Oval Size: 5 1/4" x 2 1/2" ; Cutout: 3 1/2" x 1 3/8")

(Rectangle Size: 4 1/4" x 2 3/8" ; Cutout 3 1/4" x 1 3/8")



3-00-0080 LX-RMT 3 Button (Oval) Pump, Blower & Light (shown above left). Use with 5B T.S.
 3-00-0159 LX-RMT 3 Button (Rectangle) Pump 1, Pump 2 & Light (shown above right).
 Use with 6 Button.

LX-30 Series

(Size: 9 1/8" x 4 1/4" (Oval) ; Cutout: 5 5/8" x 2 7/8")

3-00-0049* 11 Button, 2 Pumps, Blower & Light



*Limited to stock on hand.

**LX-25 topsides have been phased out of production and stock is limited. However, there is a limited supply of LX-30 topsides available. Options are as follows:

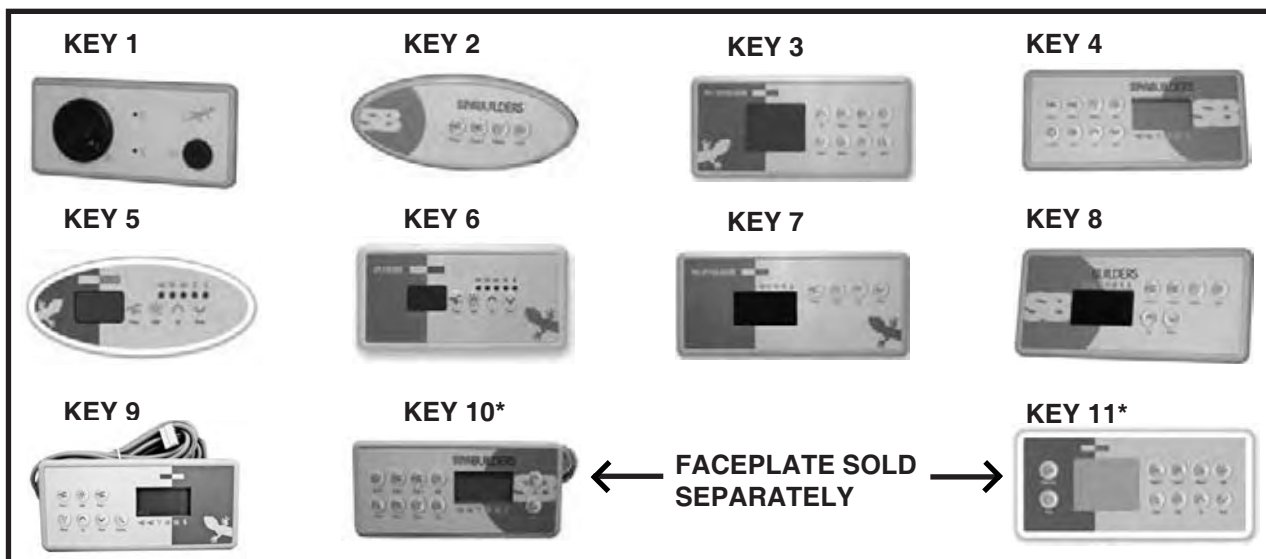
1. Replace LX-25 topsides with an LX-30 topside & matching EPROM chip
2. Replace control completely with our MClass control unit (item #3-74-7035) "AMP" or (item #3-74-7036) "Mini J&J" unit & new topside (item #3-00-7221).

Please note: At the time the catalog had been furnished, the LX-25/30 printed circuit board without EPROM chip was available but under review.



TOPSIDE CONTROLS

ITEM # / MFG #	KEY	DESCRIPTION	WORK WITH	ADDED DESCRIPTION	FACEPLATE
3-00-6015	KEY 1	TSC / K-2	PROPAK-1-120	HEAT TRANSFER KEYPAD	3-05-7095
3-00-7133	KEY 2	TSC / K-3	MSPA/TSPA/MCLASS	OVAL REMOTE NO DISPLAY	3-05-7093
3-00-7142/ 0200-007070	KEY 3	TSC / K-4	MSPA/TSPA/MCLASS W/ RTC	REAL TIME CLOCK KEYPAD	3-05-7095-SB
3-00-7221	KEY 4	TSC / K-8	MSPA/MCLASS	8 KEYS DISPLAY WITHOUT RTC	3-05-7097 (8B, P1, P2, B, L, Temp Up/Down, On/Off, Filter)
3-00-7251/ 0202-007049	KEY 5	TSC / K-9	SSPA/SCLASS & USPA	OVAL WITH DISPLAY	3-05-7099 (4B, P, L, Temp Up/ Down) 3-05-7106 (4B, P1, P2, L, Temp Up/Down)
3-00-7218/ 0202-007002	KEY 6	TSC / K-18	SSPA/SCLASS	PROPAK SMALL RECTANGLE	3-05-7091 (P, L, Temp Up/ Down) 3-05-7105 (P1, P2, L, Temp Up/ Down) 3-05-7122 (P, B, L, Temp Up/Down)
3-00-7219	KEY 7	TSC / K-19	SSPA/SCLASS	PROPAK LARGE RECTANGLE	3-05-7104 (P1, P2, L, Temp Up/ Down) 3-05-7092 (P, L, Temp Up/ Down) 3-05-7123 (P, B, L, Temp Up/Down)
3-00-7238	KEY 8	TSC / K-35	SSPA/SCLASS ONLY	6 KEYS LED DISPLAY	3-05-7094 (6B, P1, P2, B, L, Temp Up/Down)
3-00-6017/ 0202-007081	KEY 9	TSC / K-8	S-CLASS PACK HS2	"HS" UNITS	3-05-7098 (7B, P1, P2, L, B, Temp Up/Down, Econ)
3-00-7068*	KEY 10	TSC / K-8 / 10BTN	MCLASS	10 KEYS DISPLAY WITHOUT RTC	3-05-7096 (10B) <i>*Sold Separately</i>
3-00-7164/ 0201-007044*	KEY 11	TSC-4-10K-SL-NO (10 Keys)			3-05-7107 / 9916-100761 Overlay TSC-4-10K-GE1 <i>*Sold Separately</i>



Technical Note: Never unplug topside under power. Always power down first. It can cause the topside to display erratic numbers & may take 1 hour or more for unplugged topside to reset itself.



TOPSIDE CONTROLS (continued)

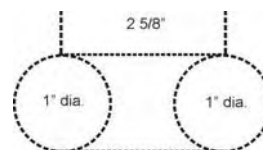
Additional Topside Accessories



1" Diameter

ITEM # / MFG#	DESCRIPTION	KEY
3-05-6001 / 9920-400436	15' extended cable for topsides	1-7
3-50-7006 / 0204-005003	Dual topside system for 2-4 MCLASS/MSPA systems. Works with 3-05-6001(25ft max) or 3-05-6002 (200ft max) or as a second topside by plugging in matching topside	
3-05-6002 / EWGX401	190' extended cable for 3 & 4 topsides	
3-90-0112 / 0607-007010	Auxiliary keypad in.xm k.100	

KEY	DIMENSIONS	CUTOUT
KEY 1	3 1/4" X 7"	2 5/8" X 6 3/8"
KEY 2	2"X4 1/2"	See Diagram (Below)
KEY 3	3 1/4" X 7"	2 5/8" X 6 3/8"
KEY 4	3 1/4"X 7"	2 5/8" X 6 3/8"
KEY 5	2"X4 1/2"	See Diagram (Below)
KEY 6	2 1/2" X 5"	See Diagram (Below)
KEY 7	3 1/4" X 7"	2 5/8" X 6 3/8"
KEY 8	3 1/4" X 7"	2 5/8" X 6 3/8"
KEY 9	3 1/4" X 7"	2 5/8" X 6 3/8"



Technical Note: #3-60-6002 –This cable will extend any standard 10ft topside an additional 15ft (25ft total). It can also be used with 3-50-7006 Dual topside system when used with K-4, K-8 M-Class topsides to add second topside of the same style.

The 3-50-7006 Dual topside system also has the capability, when using the K-4 & K-8 topsides, to extend the second K-4 or K-8 unit a total of 200ft (cord 190ft; existing cable 10ft)

See previous page for photos.



TOPSIDE CONTROLS

ITEM #/ MFG#	DESCRIPTION
3-00-8000 / 21477	Topside Adapter Plate O.D. 4 1/2" x 11 1/2" I.D. 2 3/8" x 4 3/8"



ITEM #/ MFG#	DESCRIPTION
3-00-8001/ 50796	Analog Panel 600 Series Connector, Ribbon Cable



ITEM #/ MFG#	DESCRIPTION
3-00-8002/ 50799	Digital Deluxe Panel 700 Series Connector, Ribbon Cable & Backlighting Cable. Technical Note: Also fits Sundance 701 / 724 series.



ITEM #/ MFG#	DESCRIPTION
3-00-8003/ 51058	Serial Deluxe Digital Connector, Phone Plug



ITEM #/ MFG#	DESCRIPTION
3-00-8004/ 51057	Serial Standard Digital Connector, Phone Plug



TOPSIDE CONTROLS (continued)



ITEM #/ MFG# 3-00-8005/ 50798
DESCRIPTION Standard Digital Connector, Ribbon Cable



ITEM #/ MFG# 3-00-8006/ 51223
DESCRIPTION Duplex Digital Connector, Phone Plug



ITEM #/ MFG# 3-00-8007/ 51248
DESCRIPTION Digital Duplex 2P w/ LED Connector, Phone Plug No Blower



ITEM #/ MFG# 3-00-8008/ 51218
DESCRIPTION Digital Duplex 2 Button Only Connector, Phone Plug



ITEM #/ MFG# 3-00-8009/ 51225
DESCRIPTION Digital Duplex, 1 Pump, 1 Light, No Blower, Connector, RJ45 Phone Plug Overlay, Duplex Dig. Panel LED



ITEM #/ MFG# 3-00-8010/ 54093
DESCRIPTION Digital Duplex LCD Connector, Phone Plug



ITEM #/ MFG# 3-00-8011/ 54094
DESCRIPTION Lite Digital Duplex LCD Connector, Phone Plug



ITEM #/ MFG# 3-00-8012/ 54128
DESCRIPTION M Series Deluxe Connector, Phone Plug Used with M2/M3 Series



ITEM #/ MFG# 3-00-8013/ 51221
DESCRIPTION 3 Btn Analog Duplex w/ Knob, Connector, 2 Phone Plug



ITEM #/ MFG# 3-00-8014/ 51219
DESCRIPTION 1 Btn Duplex w/ Knob Connector, Phone Plug



ITEM #/ MFG# 3-00-8015/ 51217
DESCRIPTION 2 Btn Analog Duplex



ITEM #/ MFG# 3-00-8017/ 51989
DESCRIPTION Duplex for GPM Spa



TOPSIDE CONTROLS *(continued)*



ITEM #/ MFG#
3-00-8018 / 54108

DESCRIPTION
Serial Dlx Panel for
M2 & M3



ITEM #/ MFG#
3-00-8016 / 53189

DESCRIPTION
Serial Standard Panel
2 Pump



ITEM #/ MFG#
3-00-8020 / 54116

DESCRIPTION
Lite Leader Panel
2 Button



ITEM #/ MFG#
3-00-8019 / 52144

DESCRIPTION
Mini-Oval LCD Panel



ITEM #/ MFG#
3-00-8021 / 50796-B

DESCRIPTION
Analog Panel for 600
& 624 Systems



ITEM #/ MFG#
3-00-8022 / 51694

DESCRIPTION
Simplex Panel



ITEM #/ MFG#
3-00-8023 / 53238

DESCRIPTION
Mini Oval Panel
Note: Topside for Heat Jacket System on page 32.



ITEM #/ MFG#
3-00-8024 / 52654

DESCRIPTION
ML900 Control Topside



ITEM #/ MFG#
3-00-8025 / 51489

DESCRIPTION
Topside Control
without Overlay



ITEM #/ MFG#
3-00-8027 / 51679-01

DESCRIPTION
CAT 200 Deluxe
w/o Overlay



ITEM #/ MFG#
3-00-8026 / 54105

DESCRIPTION
Lite Duplex Digital
Panel LED



ITEM #/ MFG#
3-05-7129 / 11004

DESCRIPTION
Overlay Cat 200 Deluxe
with Blower



TOPSIDE CONTROLS (continued)



ITEM #/ MFG#
3-05-7126 / 11325

DESCRIPTION
Overlay ML900 Catalina



ITEM #/ MFG#
3-05-7130 / 10307

DESCRIPTION
Overlay Duplex Dig
Panel LED



ITEM #/ MFG#
3-05-7128 / 11328

DESCRIPTION
Overlay ML900 Catalina



ITEM #/ MFG#
3-00-8028 / 54155

DESCRIPTION
8-Button Deluxe Digital
10' cable



ITEM #/ MFG#
3-00-8029 / 51705

DESCRIPTION
Lite digital panel

Miscellaneous Accessories

ITEM #/ MFG#
5-30-0043 / 10226

DESCRIPTION
Panel Lamp



3-00-8041 / 22632

50' Extension



3-00-8040 / 30311

10' Extension
Assembly 8 conn with 1 to 1 connector
This loom can be used only with Serial Deluxe
and Serial Standard products.



HYDROQUIP™ TOPSIDE CONTROLS

ITEM # / MFG#
 3-00-8900 / 34-0207

DESCRIPTION
ECO-5 Spa Side
 4-button spa side features a digital LED display and controls a pump, light and temperature.



3-00-8901 / 34-0208

ECO-6 Spa Side
 4-button spa side features a digital LED display and controls a pump, blower (or 2nd pump), light and temperature.



3-00-8902 / 34-0197

ECO-3 Spa Side
 6-button spa side controls 2 pumps, blower, light and temperature. It features a digital LCD display.



Faceplate: #3-05-0197 / 80-0203

3-00-8906 / 34-0190

HT-II Spa Side
 8-button spa side controls 2 pumps, blower, light and temperature plus 'program' and 'mode' keys. It features a digital LCD display.



HT-11 Spa Side 25' cord:
 #3-00-8908 / 34-0189

Adapter Plate HT-2
 Series: #3-05-7244 / 80-0511B



3-00-8907 / 34-0120-2

Auxiliary Spa Side
 4-button spa side features a digital LED display; controls a pump, blower (or 2nd pump), light and temperature.



3-00-8909 / 34-0190A

Spa Side HT-2 10' 10-Key

Photo
 Unavailable

5-50-0015 / 33-0034A

Double Topside Cord



5-50-0016 / 30-1011-30

Extension Cable 30'

Photo
 Unavailable

PRESS: AIR: TROL (P.A.T.) TOPSIDE CONTROLS

Time proven and a great value, the PATROL Series Topside control features a mechanical thermostat. This control is adaptable to most spa equipment packs and can be used for both retro-fit and OEM applications.



DIMENSIONS

ACCESSORIES

6' Cord
 48" Temp Sensor
 5/16" OD x 4 1/8"

CUTOUT

2 Button: 2 5/8" x 5 3/4"
 3-4 Button: 2 5/8" x 7 7/16"

ITEM # / MFG #

3-10-0032 / S26010100
 3-10-0021 / S36010100
 3-10-0022 / S46010100
 3-10-0050 / S46006105

DESCRIPTION

2 Button with T-stat 6 1/2" x 3 1/4"
 3 Button with T-stat 8 1/4" x 3 1/4"
 4 Button with T-stat 8 1/4" x 3 1/4" (shown above)
 4 Button, 220V 8 1/4" x 3 1/4"

FACEPLATE

3-05-0070

Digital Spa Side Control with LCD Temperature Readout

This Digital deck side controller is a great value and features a precise mechanical thermostat and sensor. This control is adaptable to most spa equipment packs and can be used for both retro-fit and OEM applications.



DIMENSIONS

ACCESSORIES

6' Cord
 60" Temp Sensor
 60" Battery Cable

CUTOUT

2 Button: 2 5/8" x 5 3/4"
 3-4 Button: 2 5/8" x 7 7/16"

ITEM # / MFG #

3-10-0059 / S260101F0
 3-10-0054 / S360101F0
 3-10-0039 / S460101F0

DESCRIPTION

2 Button with T-stat 8 1/4" x 3 1/4"
 3 Button with T-stat 8 1/4" x 3 1/4"
 4 Button with T-stat 8 1/4" x 3 1/4" (shown above)

Digital Spa Side Control with LCD Temperature Readout



DIMENSIONS

ACCESSORIES

6' Battery Cable &
 Temperature Sensor

CUTOUT

2 Button: 2 x 5 3/4"
 3-4 Button : 2 5/8" x 4 3/8"

ITEM # / MFG#

3-10-0075 / T2BDF1A-AA

DESCRIPTION

2 Button with LCD 6 1/4" x 2 1/4" (shown above)



TOPSIDE CONTROLS

ST-1200 SERIES (Dimensions: 3 1/4" x 7")

ITEM #	DESCRIPTION	FACEPLATE ITEM #
3-00-0007	2 Button ST-1200/2 6 pin plug & 6ft. cord	3-05-0010
3-00-0008	3 Button ST-1200/3 6 pin plug & 6ft. cord	3-05-0044
3-00-0009	4 Button ST-1200/4 6 pin plug & 6ft. cord	3-05-0012
3-00-0010	2 Button ST-1200/4 In-House	
3-00-0013	4 Button ST-1200/4 No plug 30ft. x 8 conductor cord	
3-00-0124	4 Button ST-1200/4 6 pin plug & 75ft. cord	
3-00-0023	4 Button 30' 8 conductor (PDC)	



Item #3-00-0010

ST SERIES ACCESSORIES

3-05-0037	Black Rubber Boot for Button
3-05-0038	Grey Rubber Boot for Button
3-05-0001	T'stat (Fits all Ramco Topsides)
3-05-0013	Silver Faceplate for T'stat Knob

5-60-0002	9 to 6 pin adapter
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ST400, ST1100, ST1200 SERIES BUTTON REPLACEMENT

ITEM #	DESCRIPTION
3-05-0002	Button Replacement Kit

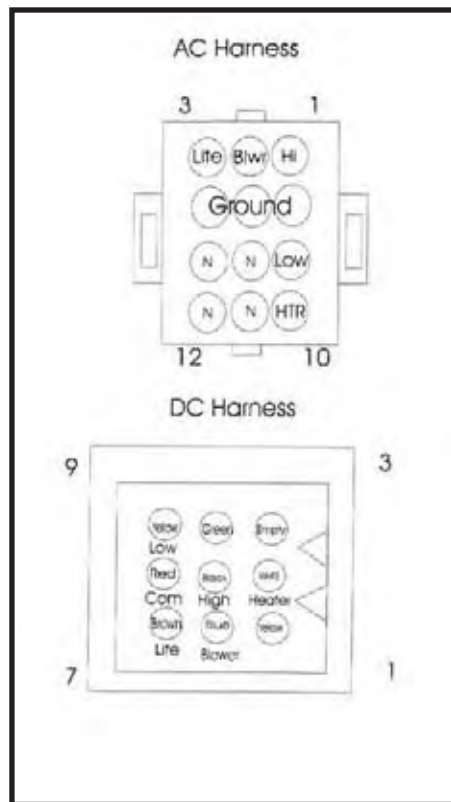


EP-1200 SERIES

(Dimensions: 3 1/4" x 7")



ITEM #	DESCRIPTION
3-00-0017	2 Button EP-1200/2 9 pin plug & 6ft. cord
3-00-0018	3 Button EP-1200/3 9 pin plug & 6ft. cord
3-00-0019	4 Button EP-1200/4 9 pin plug & 6ft. cord





TOPSIDE CONTROLS (continued)

DIMENSION ONE SERIES (Dimensions: 3 1/4" x 7")

These types of top side controls are used with circuit board type equipment built by Spa Builders Support Group, Ramco, CRL Electronics, Dimension One Spas, Sundance Spas, Purex, Hurricane, Typhoon, PSI and many more since 1986, and are still widely used today.

ITEM #	DESCRIPTION
3-00-0035	2 Button D-1 STD 6 pin plug & 6ft. cord
3-00-0033	3 Button D-1 STD 6 pin plug & 6ft. cord
3-00-0029	3 Button D-1 Special 6 pin plug & 6ft. cord (auto/timer button)
3-00-0034	4 Button D-1 Special 6 pin plug & 6ft. cord (auto/timer button) (shown right)



ITEM #	DESCRIPTION	FACEPLATE ITEM #
3-00-0004	ST 131 (cord not included)	3-05-0008 (thermostat only)
3-00-0005	ST 132 (cord not included)	3-05-0009 (thermostat & button)

3-05-0001 Thermostat (Fits all Ramco Topsides)



Dimensions:
2 1/4" x 3 1/4"

3-00-0001	ST 400/1 (cord not included)	3-05-0005 (1-button, no thermostat)
3-00-0002	ST 400/2 (cord not included)	3-05-0006 (2-button, no thermostat)
3-00-0003	ST 400/3 (cord not included)	3-05-0007* (3-button, no thermostat)

*No rubber boot for button



NOTE: Cannot substitute ST-1200 series topside controls, the polarity is reversed.

ITEM #	DESCRIPTION
3-00-0012	ST 1100/2 6 pin plug & 6' cord
3-00-0011	ST 1100/3 6 pin plug & 6' cord (shown right)



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ONLY AT


Sundance Spas TOPSIDE CONTROLS

Item #SD6600-863

6600-802 Obsolete
 1995-1999
 850 Remote Control Panel



Item #SD6600-803

1995-1999
 850 Control Panel with
 Dual Cable Harness



Item #SD6600-892

3/93-1999
 800-850 Control Panel,
 2-Pump w/o Remote
 Panel



Item #SD6600-893

3/93-1999
 800-850 Control Panel,
 1-Pump



Item #SD6600-708

1997-1999
 750 Control Panel,
 2-Pump with Blower



Item #SD6600-710

1997-1999
 750 Control Panel,
 1-Pump



Item #SD6600-831

T.S. 2000 850 Remote
 Panel Blue 2-P



Item #SD6500-522

1989-1991
 701-724 Control Panel
(Item #3-00-8002 Balboa can also be used.)



Item #SD6600-712

1997-1999
 750 Control Panel
 1-Pump without Blower



Item #SD6600-693

6600-690 4B
 1993-6/97
 600 Control Panel
 with Blower



Item #SD6600-695

650 Control Panel
 without Blower



Item #SD6600-051

4/96-4/98
 Suntub SV/DV Control Panel
 400 System Control Panel



Item #SD6600-493

400 Control Panel
 Also Replaces:
 600-S
 1992-1994 Suncoast
 1995-1996 Montego/Tango



Item #SD6600-993

400 E.V.
 Control Panel
 No Blower



Item #SD6600-800

1992-1993
 800 Control Panel
 2-Pump System



Item #SD6500-520*

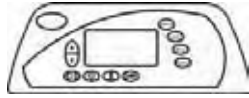
1987-1989
 624 Control Panel
*(*Limited Production. Also use SD6500-516.)*



Sundance Spas TOPSIDE CONTROLS (*continued*)

Item #SD6600-865

2001-2005 Gray
850 / 850 Control Panel
(1-Pump System)



Item #SD6600-630

Panel 2003-04
Sweetwater (1-Pump)



Item #SD6600-631

Panel 2003-04
Sweetwater (2-Pump)



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at



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If you are not receiving our monthly promotions via fax or email, please let us know if you would like to be added to our mailing list.

Sundance Spas TOPSIDE CONTROLS (continued)

Item #SD6500-516

605 Control Panel
 (Replaces 505, 601-605,
 1989 Jamboree Control
 Panel without Blower)



Item #SD6600-812

1999
 850 Maxxus Control Panel
 (3 Pump System with
 Remote)



Item #SD6600-211

1991-1993
 800 Control Panel
 1-Pump



Item #SD6600-832

2000-2002
 Sweetwater Control
 Panel 2-Pump



Item #SD6600-833

2000+
 Portofino Control
 Panel 1-Pump



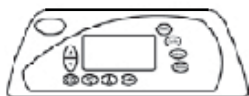
Item #SD6600-834

2000-2002
 Sweetwater Control
 Panel 1-Pump



Item #SD6600-835

2000-2002
 Control Panel 2000
 850 Blue



IN-GROUND CONTROL PANELS

Item #SD6600-844

2000+ Blue
 Control Panel with 75'
 Cable 2-Pump



Item #SD6600-872

2001 + Gray
 850 Inground Control
 Panel with 75' Cable Harness 2-Pump

Item #SD6600-843

2000 + Blue
 850 Inground Control
 Panel with 75' Cable Harness 1-Pump

Item #SD6600-148

1993-1999
 800/850 Control Panel
 with 40' Cable Harness
 (2-Pump System)



Item #SD6600-152

1993-1999
 800/850 Control Panel
 with 75' Cable Harness
 (2-Pump System)



Item #SD6600-150

1991-1992
 800 Control Panel with 40'
 Cable Harness (2-Pump System)



The following controls are no longer available.

Item #	Description
1998-1999	
SD6600-615	LX-10 use #3-00-0139 & #3-60-1052
SD6600-616	LX-10 use #3-00-0139 & #3-60-1052
SD6600-617	LX-10 use #3-00-0139 & #3-60-1052
SD6600-620	LX-15 use #3-00-0193 & #3-60-1052
SD6600-625	LX-15 use #3-00-0194 & #3-60-1052
1991	
SD6500-560	Sundance Ctrl 5 Btn*
3-00-0020	Suncoast Ctrl 4 Btn*
3-00-0021	Suncoast Ctrl 5 Btn

*Check Availability

**Need Sundance information,
 troubleshooting assistance, product
 specifications, etc., visit
[http://www.sundancespas.com/
 CustomerCare/Manuals.php](http://www.sundancespas.com/CustomerCare/Manuals.php)**



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Aqua-Flo • Brett Aqualine . . . and Much More!

Sundance Spas TOPSIDE CONTROLS *(continued)*

CIRCUIT BOARD	PANEL REFERENCE
6000-560	6500-560
6000-561, 6000-562	6500-561 5B, 6500-562 4B
6000-702	6500-522
6500-476	6500-516
6500-524, 6500-528	6500-505, 6500-516
6600-013	6600-803 2P 6600-802 Remote
6600-014	6600-892 2P, 6600-893 1P
6600-017	6600-803 2P 6600-802 Remote
6600-018	6600-892 2P, 6600-893 1P, 6600-803 2P, 6600-802 Remote
6600-021	6600-211 1P, 6600-800 2P
6600-040	6600-892 2P, 6600-893 1P
6600-032	6600-493 Except Suntub
6600-032	6600-051 Suntub Only
6600-053, 6600-055, 6600-033, 6600-043 400 No Temp Display	6600-493 4BT, 6600-993 3BT (No Blower)
6600-053, 6600-055, 6600-033, 6600-043 600/650 with Temp Display	6600-693 4BT, 6600-695 3BT (No Blower)
6600-027	6600-710 1P, 6600-708 2P
6600-059	6600-710 1P, 6600-708 2P, 6600-712 No Blower
6600-028 1997- 1999 850	6600-893 1P, 6600-803 2P, 6600-802 Remote
6600-028 2000 850	6600-835 1P, 6600-830 2P, 6600-831 Remote Blue
6600-023 1999 850 Maxxus W/ Iso Pure	6600-812 3P, 6600-814 Remote
6600-023 2000 850 Maxxus W/ Iso Pure	6600-836 3P, 6600-837 Remote Blue
6600-056 2001 850nt	6600-865 1P, 6600-860 2P, 6600-861 Remote Gray
6600-092 2002-2004 850 Nt	6600-865 1P, 6600-860 2P, 6600-861 Remote Gray
6600-057 2001 850 Maxxus Nt	6600-866 3P, 6600-867 3P Remote Gray
6600-094 2002-2004 850 Maxxus Nt	6600-866 3P, 6600-867 3P Remote Gray
6600-155 2005 888 Maxxus	Contact Sundance , Not For Sale Thru Allied Until Warranty Expires
6000-217 1998-1999 Sweetwater Rev 1.31 Nla	Use 3-00-0193 4BT, 3-00-0194 5BT & 3-60-1052 5.03 Chip
6000-218 1998-1999 Sweetwater Rev 1.23 Nla	Use 3-00-0139 4BT Peanut & 3-60-1052 5.03 Chip
6600-087, 6600-083, 6600-088 2000- 2002 Lx-15 Rev 5.03, 6.16, 3.56, 5.54	6600-834 1P, 6600-832 2P
6600-087, 6600-083, 6600-088 2003 LX-15 REV 3.56, 5.54	6600-630 1P, 6600-631 2P
6600-089, 6600-086, 6600-085, 6600-084, 6600-082 2000-2002 LX-10 REV5.03,6.16,3.56,5.54	6600-833
6600-089, 6600-086, 6600-085, 6600-084, 6600- 082 2003+ LX-10 REV 3.56, 5.54	6600-635

Sundance Spas TOPSIDE CONTROLS *(continued)*

INGROUND CONTROL PANELS	
6000-701 1989-91 724 Inground	6500-522, 50ft Loom 6000-027, 25ft 6000-028
6600-021 1991-92 800 / 850 Inground	6600-149 1p 40ft, 6600-150 2P 40ft
6600-014, 6600-018, 6600-021 1993-99 800 / 850 Inground	6600-049 1p 40ft, 6600-148 2P 40ft, 6600-152 2P 75ft
6600-023, 6600-028, 6600-056, 6600-057, 6600-092, 6600-094 2000 Blue 850 Inground	6600-841 1P 40ft, 6600-842 2p 40ft, 6600-843 1P 75ft, 6600-844 2P 75ft
6600-023, 6600-028, 6600-056, 6600-057, 6600-092, 6600-094 2001+ Gray 850 Inground	6600-871 1P 40ft, 6600-872 2P 40ft, 6600-873 1P 75ft, 6600-874 2P 75ft

TECMARK (TDI) TOPSIDE CONTROLS

Command Center TDI

Time proven and a great value, the CC Series Topside control features a precise solid state thermostat and sensor. This control is adaptable to most spa equipment packs and can be used for both retro-fit and OEM applications.



ITEM # / MFG #	DESCRIPTION	FACEPLATE
3-10-0040 / CC2-120-10-1-00	2 Button with T-stat 6 1/2" x 3 1/4", 120V	3-05-0119
3-10-0041 / CC3-120-10-1-00	3 Button with T-stat 6 1/2" x 3 1/4", 120V	3-05-0121
3-10-0042 / CC4-120-10-1-00	4 Button with T-stat 6 1/2" x 3 1/4", 120V	3-05-0117

Digital Command Center TDI

This deck side controller is a great value and features a precise solid state thermostat and sensor. This control is adaptable to most spa equipment packs and can be used for both retro-fit and OEM applications.



ITEM # / MFG #	DESCRIPTION	FACEPLATE
3-10-0043 / CC2D-120-10-1-00	2 Button with T-stat 6 1/2" x 3 1/4"	3-05-0120
3-10-0044 / CC3D-120-10-1-00	3 Button with T-stat 6 1/2" x 3 1/4"	3-05-0118
3-10-0045 / CC4D-120-10-1-00	4 Button with T-stat 6 1/2" x 3 1/4"	3-05-0262
3-10-0065 / CC40240-10-1-02	4 Button, 240V Celsius	3-05-0262
3-10-0046 / 20205AA	Adapter Kit 8 1/2" x 3 1/4"	

ITEM # / MFG #	DESCRIPTION
3-05-0265 / 30175	T'Stat Knob, TDI Topside Cut out 2 9/16" x 5 5/8"





ERROR CODES FOR TOPSIDE CONTROLS

Brett Digital Error Codes

OH = Temp exceeds 118 degrees

Fr = Freeze condition – temp below 40 degrees

FL = Pressure switch failure

EO = Shorted temp sensor

E1 = Open temp sensor

E2 = Shorted hi-limit sensor

E3 = Open hi-limit sensor

E4 = Shorted flow switch

E7 = Improper electrical connection

FC = Filter cycle

Sundance Error Codes

ILOC = Interlock failure

OH = Sensor indicates water temp above acceptable limits

FLO = Pressure Switch malfunction

Hold = Panel buttons pressed too many times to quickly

HOT— Air blower on

ICE = Freeze condition

PnL = Communication error between circuit board & panel

Sn1 = Hi-limit sensor malfunction

Sn3 = Temp sensor malfunction

“-----” = Watch dog – Water temp above acceptable limits (above 118°). Potential damage to spa equipment. Possible sensor, transformer, topside or circuit board failure

Spa Builders LX 10/15 Error codes

Sn1 / 01 Nonfunctional /open high temperature sensor. Heater deactivated

Sn2 / 02 Nonfunctional /open temperature sensor. Heater deactivated

FL1 / 03 Pressure switch not closed when pump is running and heater is trying to heat, Heater is also deactivated

FL2 / 04 Pressure switch is closed when pump is off

COL / 05 Cool Condition Water Temp has dropped 20° below set temperature low speed pump & heater will activate to bring temperature to within 15° of preset; only works in economy mode

ICE = Freeze condition. Water temp has reached 55°; pump & heater are activated

OH = Water temp above acceptable limits (above 110°)

“---” = Watchdog Water temp above acceptable limits (above 118°). Potential damage to spa equipment. Possible sensor, transformer, topside or circuit board failure

ERROR CODES FOR TOPSIDE CONTROLS

Gecko Error Codes (old style)

FLO = Pressure switch open

FLC = Pressure switch closed

Prr = temp sensor failure

Prh = Hi-limit sensor failure

FrE = Possible freeze condition

Gecko Error Codes (new style) / Hydro-Quip Error Codes

32° = Temp sensor not detected

112° Flashing = Water too hot; let cool down & system will reset itself @ 109°

3 Flashing dots on display = water flow problem check for closed valves, dirty filters, water level, pump/wetend operation / defective pressure switch.

Flashing dots & light lit on circuit board = Hi-limit trip. Reset power to clear

Temp reads correct water temp = Good; if incorrect replace sensor

Inverted Display = Press Filter key for 5 seconds (certain models only)

Pump starts by itself for 1 minute on several occasions & Filter indicator flashing = Smart Winter Mode not an error but a feature (Freeze protection)

Filter cycle has stopped & "Filter" indicator is flashing not an error but a feature; either the filter cycle is in a 40 minute time-out to avoid ozonator activation while spa is being used or the system has cancelled a filter cycle after 3 hours because water temp exceeds set point by more than 2°

"Heater" indicator flashes when pump is on high speed. Not an error but a feature. The system is turning off the heater when pump is on high speed to limit amperage draw (jumper 1 set to "LC" mode)

Temperature displays water temp "C°" or "F°". Simply hold light button for 5 seconds to toggle.

Technical note: After making any changes to any P.C.B or control system; RESET the Breaker

Lennovator Error Codes

"SP" = SPA MODE ; not an error

"PO" = POOL MODE; not an error

"NC" = No Communication With Master Control Unit

"- -" = Data Being Sent To Master Control Unit

"OP" = Temperature Sensor Failure-open

"SH" = Temperature Sensor Failure-short

"OH" = Warning, Water Temperature Over 120°F

"IP" = Insufficient Power

"FP" = Freeze Point

Temperature: Set Point & Actual Water Temp

Temperature Flashing On & Off - Warning - Water temperature high (109°-120°F)

aqua-flo CIRCULATION PUMPS

These pumps are used for 24 hour circulation. They have a very low amp draw and very little electricity consumption. Aqua-Flo Pumps have a higher flow rate than most circulation pumps. Up to 80 GPM.

ITEM # / MFG #	DESCRIPTION
1-00-0154 / 02093635-2000	1/15 HP 110V 1 Speed CHMP Hi-Flo
1-00-0155 / 02593674-2000	1/15 HP 240V 1 Speed CHMP
1-05-0259 / 91693601	Impeller
1-05-0107 / 91040700-010	Wet End



GRUNDFOS CIRCULATION PUMPS

ITEM # / MFG #	DESCRIPTION
1-00-0184 / 59596352	110V, 1" Barb x 1" Barb, 9.5 GPM
1-00-0185 / 242011500	240V, 1" Barb x 1" Barb, 9.5 GPM
1-00-0197 / 1030004	240V, 1" Barb x 1" Barb, 50 Hz



LAING CIRCULATION PUMPS

ITEM # / MFG #	DESCRIPTION
1-00-0097 / 303-NHT	110V, Barb x Thrd 1/2", 1/50HP
1-00-0136 / 909-NH-14	110V, Barb x Barb 3/4", 1/50HP
1-00-0168 / 909-NH-14	240V, Barb x Barb 3/4", 1/50HP
1-00-0159 / 959-NH-26	240V, Barb x Barb 50Hz 3/4", 1/20HP
1-00-0169 / 909-NT-14	110V, Thrd x Thrd 3/4", 1/50HP
1-00-0170 / 909-NT-14	240V, Thrd x Thrd 3/4", 1/50HP
1-00-0164 / 909-NH-26	110V, Barb x Barb 3/4", 1/20HP
1-00-0098 / 909-NH-26	240V, Barb x Barb 3/4", 1/20HP
1-00-0171 / 909-NT-26	110V, Thrd x Thrd 3/4", 1/20HP
1-00-0172 / 909-NT-26	240V, Thrd x Thrd 3/4", 1/20HP
1-00-0173 / 909-NH-18	110V, Barb x Barb 3/4", 1/20HP
1-00-0174 / 909-NH-18	240V, Barb x Barb 3/4", 1/20HP
1-00-0175 / 909-NT-18	110V, Thrd x Thrd 3/4", 1/20HP
1-00-0176 / 909-NT-18	240V, Thrd x Thrd 3/4", 1/20HP
1-00-0177 / 1212-NH-26	110V, Barb x Barb 3/4", 1/15HP
1-00-0178 / 1212-NH-26	240V, Barb x Barb 3/4", 1/15HP
1-00-0198 / 1212-NH-19	240V, Barb x Barb 1", 1/15HP
1-00-0199 / 1212-NH-21	110V, Barb x Barb 1", 1/15HP



MODEL	FLOW RATE
303	3 GPM
909-14	6 GPM
909-18	11 GPM
909-26	9.5 GPM
1212-19	18 GPM
1212-21	18 GPM
1212-26	12 GPM

LAING vs. SPA BUILDERS SYSTEMS CROSS REFERENCE CHART

Customer	Production Units	LAING #	Model No.	LAING #	SBS #
A.H. EQUIP/LA SPA	SM-909-NHW- 18	6678.9	SM-909-NH- 18	6496	1-00-0173
"	SM-909-NHW- 18 230V	6321.9	SM-909-NH- 18	6437	1-00-0174
AQUA SPA PAK	SM-909-NT-26	9389.9	SM-909-NT-26	9389	1-00-0171
AQUIFORM DIST	SM-909-NTW-26	9981.9	SM-909-NT-26	9389	1-00-0171
ATLANTIC COAST	SM-909-NHW-18	6331.9	SM-909-NH-18	6496	1-00-0173
COMFORT LINE	SM-909-NTW-18	6612.9	SM-909-NT-18	6484	1-00-0175
DIMENSION ONE	SM-909-NHW-14	6355.9	SM-909-NH-14	9936	1-00-0136
"	SM-909-NHW-26	6015.9	SM-909-NH-26	9360	1-00-0164
DYNASTY	SM-1212-HHW-19 230V	6316.9	SM-1212-NH-19	6619	1-00-0198
GATSBY	SM-909-NHW-14	6425.9	SM-909-NH-14	9936	1-00-0136
"	SM-1212-NHW-19	6306.9	SM-1212-NH-19	6620	
"	SM-1212-NHW-19 230V	6305.9	SM-1212-NH-19	6619	1-00-0198
HAWKEYE	SM-909-NHW-18	6597.9	SM-909-NH-18	6496	1-00-0173
JACUZZI	SM-909-NHW-18 230V	6496.9	SM-909-NH-18	6437	1-00-0173
KREVCO LTD	SM-909-NHW-18	6049.9	SM-909-NH-18	6496	1-00-0173
"	SM-909-NHW-18 230V	6543.9	SM-909-NH-18	6437	1-00-0173
"	SM-1212-NHW-21 230V	6416.9	SM-1212-NH-21	6529	
MARQUIS	SM-909-NTW-18	6332.9	SM-909-NT-18	6484	1-00-0175
PORTABLES	SM-1212-NHW-19	6314.9	SM-1212-NH-21	6426	
ROYAL	SM-909-NHW-18	6142.9	SM-909-NH-18	6496	1-00-0173
"	SM-1212-NHW-21	6436.9	SM-1212-NH-21	6431	1-00-0199
SARATOGA	SM-909-NHW-26	9917.9	SM-909-NH-26	9360	1-00-0164
"	SM-909-NHW-26	6169.9	SM-909-NH-26	9360	1-00-0164
SANTA BARBARA SPAS	SM-909-NHW-18 230	6321.9	SM-909-NH-18	6437	1-00-0174
SUNDANCE	SM-909-NHW-18 230	6496.9	SM-909-NH-18	6437	1-00-0174
"	SM-909-NHW-14	6603.9	SM-909-NH-18	9936	1-00-0136
"	SM-909-NHW-18 230	6602.9	SM-909-NH-18	6437	1-00-0174
WATKINS/HOT SPRINGS*	MASM-303-NHW	VARIOUS	SM-303-NH	9406	1-00-0097
" *	SILENT FLO 5000	VARIOUS	SM-909-NH-14	9936	1-00-0136
WATKINS/CALDERA *	SM-909-NHW-14	6596.9	SM-909-NH-14	9936	1-00-0136
" *	SM-909-NH-14	6596	SM-909-NHW-14	9936	1-00-0136
" *					
* ANY 2 SPEED MOTOR WIRE AS LOW SPEED					



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Aqua-Flo • Brett Aqualine . . . and Much More!



CIRCULATION PUMPS

Tiny Might (18 GPM)

ITEM # / MFG

1-00-0088 / 3312610-14
1-00-0179 / 3312620-14
1-00-0180 / 3312610-19
1-00-0181 / 3312620-19

DESCRIPTION

110V, Union, (shown right) Ready*, 1/16HP
240V, Union Ready*, 1/16HP
120V, 1" Barb, 1/16HP
240V, 1" Barb, 1/16HP



*Uses 1" Unions. See [page 99](#).

Iron Might (40 GPM, 1/8 HP, 1725 RPM, 1.3 Amp)

ITEM # / MFG

1-00-0182 / 3410030-1E
1-00-0183 / 3410020-1E
1-00-8000 / 310-5400
1-05-0366 / 310-1000

DESCRIPTION

115V, 1.5" Unions *
240V, 1.5" Unions *
Leaf Trap 1 1/2" Union x 1 1/2" FPT
Wet End 1/8HP



*Uses 1.5" Unions. See [page 114](#).

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PENTAIR (VICO) ULTIMA SERIES PUMP



Item #	PENTAIR NEW P/N	VICO OLD P/N	DESCRIPTION
1-05-0317	1212205	PPUF1IMP **	Impeller: Black Stripe For 1-00-0156
1-05-0238	1210014	PPULVFSDCS2/2 **	Volute Front: SD 2" X 2"
1-05-0314	1211008	BACK UL PW-UL BK** / ***	Volute Back
1-05-0320	1215117	PKUL10SDCS2/2 **	Wet End Cpl W/ Black Impeller
1-05-0377	1214138	PPULPLUGSLOT * / ** /***	Plug For Wet End
1-05-0378	6020006	MPORING-0015 * / ** /***	O-ring For Plug
1-05-0219		PPUFV/OR ** /***	O-ring For Wet End
1-05-0110		PPFSSEAL * / ** /***	Pump Seal PS-201
1-05-0220		PPHS * / ** /***	Heatsink
1-05-0221		PPHSB * / ** /***	Heatsink Boot
1-05-0316	1213009	PPUFSLING * / ** /***	Slinger
1-05-0234	2614018	UPULNUT2/UPULF2 ** /***	Union Complete: 2 " (Set Of 2)
See Notes	111042	MTRGE-3818**/****	1.0 HP 2-SP 115V GE Motor
1-05-0223		PPULVFTDCS2/2 Special Order	Volute Front: CD 2" X 2" Can Fit 1-00-0156 Pump

* Must Order 1 Each For A Complete Seal Set

** Fits Standard Pack Pump 1-00-0156

*** Fits Upgraded Motor 1-00-0152

**** If Motor Is Defective, Replace Complete Pump

ITEM #	MFG #	DESCRIPTION
1-00-0147	1014169	Pump Ultima Dually 230V

Photo
Unavailable

PUMP SEALS

ITEM #	DESCRIPTION	SHAFT SIZE
1-05-0319	PS-100	.625
1-05-0228	PS-200 (shown)	.625
1-05-0110	PS-201	.750
1-05-0370	PS-601SS	.625
1-05-0109	PS-1000	.625
1-05-0321	PS-2131	.625



PUMP CROSS REFERENCE BY MANUFACTURER

Pump Manufacturer	Pump Model	MFG's Part #	Seal	Pump Manufacturer	Pump Model	MFG's Part #	Seal
Acura Spa Pump	Magnaflo		PS1000		B-Series	92509040	PS1000
	Maverick		PS1000		C-Series	92500050	PS1000
	Aqua Heat (Plus)		PS1000		D-Series	92509040	PS1000
American Products	Americana	395005	PS201		Circ-Master	92500151	PS201 Matte Finish
	Americana II	397012	PS1000	Arneson	Pool Sweep	A-8	PS200
	Bronze-Bronze	397012	PS1000	Baker-Hydro		35B1178/ 35B1175	PS200
	Bronze-Noryl	395005	PS201	DiaClear		36100	PS142
	Eagle	397012/397020	PS1000	Doughboy/ Lomart		306-1007	PS200
	Maxim	397012	PS1000			11281006	PS1000
	Power-Glass	397012	PS1000			306-1002	PS1000
	Ultra-Flo	387020	PS1000			306-1006	PS2131
Ampro-Diaclear	Die Cast	AP-504D	PS163	Hydra-Bath	Series 6000 HyFlo SD		PS1000
	Lexan 200 Series	AP-504D	PS163	Hayward	Power-Flo	SP-1500-KA	PS 2131
	Dura-Flo	AP-304D	PS1000		Power-Flo II	SP-1500-KA	PS 2131
	Noryl-Turbo	AP-304D	PS1000		Turbo-Flo	SP-1500-KA	PS2131
	XL600	AP-304D	PS1000		Cast Iron	SP-1250X-Z2	PS200
Anthony		4547	PS100		Max-Flo	SP-1600-Z2	PS201
	Booster /sweep	4380	PS1000		Super Pump	SP-1600Z2	PS201
Aqua-Flo	Dominator-High Head	92500150	PS200		Super Pump II	SP-1600-Z2	PS201
	Dominator High '94 & Prior	92500050	PS1000	Hydr-O-Dynamic	PEHP10-2		PS1000
	Dominator-Med Head	92500150	PS200	Jacuzzi	LCM/LCU- /LR	10-1436-00	PS200
	Dominator-Med '94 & Prior / '95 +	92500150	PS200 PS1000		A-Series	10-0002-06	PS200
	Flo-Master	92500150 9104900	PS200 PS2131		Cygnnet	10-0002-06	PS200
	Tub Master	92500150 9104900	PS200 PS2131		J, JCM-Series	10-0002-06	PS200
	A-Series	92509040	PS1000		K, KM-Series	10-1436-00	PS200
	AC-Series	92500000	PS309		Magnum	10-1502-09	PS201
					RC-Series	10-1502-09	PS201
					Vector	10-1436-00	PS200

PUMP CROSS REFERENCE BY MANUFACTURER

Pump Manufacturer	Pump Model	MFG's Part #	Seal
	Vector (LVL)	10-002-06-R	PS201
		10-477	PS201
		10-486/487	PS201
Lomart		40-027, 029	PS163
Marlow	2AF-Series	25353-00	PS411
	3B-Series	27223-00	PS416A
	Argonaut	38592-00	PS201
	L-Series	45672-20	PS978
	L-Series	45673-20	PS514
	Mardur	38592-00	PS201
	SCT Series (Stainless)	46328-00	PS2131
Muskin		Sep-13	PS142
		Sep-01	PS163
PacFab	AF, AFP Waterfall	354545	PS1000
	Challenger/ Dynamite	354545	PS200
	Dynamo/ Dynatron	354545	PS200
	Hydro Pump	35-4001,002,4894	PS201
	Pinnacle	354545	PS200
	Ultra-Flow	39702000	PS1000
	WhisperFlo	P28323/071734	PS1000
Polaris	Vac Sweep	P-55	PS1000
Premier	120T/ 300Series	31-812	PS201
	225/255 Series	31-812	PS201
	300 Series Pre 1988	31-812	PS1000
	455/456 Series	31-813	PS1000
	500/600/800 Series	31-813	PS1000
	624/725/756 Series	31-812	PS201
Purex Hydrotech		P28280	PS100
	Aquatron	P28322/071733	PS501
	WhisperFlo	P28323/ 071734/P28050	PS1000
	AH/L Series	P28300	PS201
Sta-Rite	A-J Series	U109-93SS	PS100
	CC/C Series	U109-220	PS-381
	CF/CFA Series	U109-136SS	PS1000

Pump Manufacturer	Pump Model	MFG's Part #	Seal
	CKHD-37K		PS100
	D-Series	U109-220	PS-381
	DJ/JS/JT	U109-358SS	PS201
	Dura-Glas	17304-0100S	PS200
	Dura -Glas Pre 1998	U109-93SS	PS100
	Dura -Glas II	U109-358SS	PS201
	Dura -Glas II Pre 1988	U109-372SS	PS201
	Dura-Jet	U109-358SS	PS201
	Dyna-Glas/ Dyna Max	U109-358SS	PS201
	Dyna-Jet	17351-0101S	PS201
	HP-Series	U109-136SS	PS1000
	JS/JT/JW /JWA5Series	U109-358SS	PS201
	JWPA Series	U109-358SS	PS201
	LT Series	U109-68SS	PS163
	Max-E Glas	17304-0100S	PS200
	Max-E Glas Pre 1998	U109-93SS	PS100
	Max-E-Glas II	U109-372SS	PS201
	Max-E-Glas II Pre 1998	U109-372SS	PS201
	PLBC Series Pre 1995	U109-93SS	PS100
	PLBC Series	17351-0102S	PS100
Sundance	Theramax / Theraflo	6500-281 .0625 Shaft Dia 2.0HP 1999-06/03	PS200
	Theramax / Theraflo	6500-805 All Others	use Sundance only 6500-805
		6540-985	PS2131
	Sta Rite Maxi / Dual	6500-186	PS100
	Aqua-Flo	6500-447	PS200
	Sun Tub	6500-446	PS200
	Hayward	6540-985	PS2131
		6540-987	PS201
Swimquip	XL, VI/XL, VII Series	37407-19	PS201
Vico	Ultima		PS201
Waterway			PS1000
Wet Institute		1000	PS1000

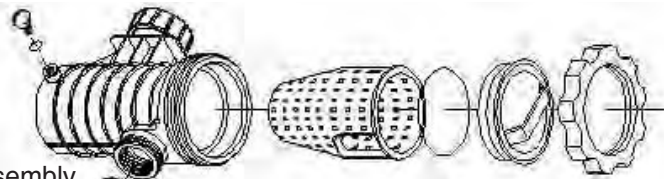
Pump Cross Reference

SERIES	FIRST 3 DIGITS	SPEED/FRAME	HP
XP2	060	1SPD-48FR	CONTINUOUS
	061	2SPD-48FR	CONTINUOUS
	065	1SPD-48FR	MBHP
	066	2SPD-48FR	MBHP
	070	1SPD-56FR 50 cycle	CONTINUOUS
	071	2SPD-56FR	CONTINUOUS
	072	1SPD-56FR	CONTINUOUS
	073	2SPD-56FR	MBHP
	076/078	2SPD-56FR	MBHP
	077	1SPD-56FR	MBHP
XP2e	050	1SPD-48FR	CONTINUOUS
	051	2SPD-48FR	CONTINUOUS
	055	1SPD-48FR	MBHP
	056	2SPD-48FR	MBHP
	052	1SPD-56FR	CONTINUOUS
	053	2SPD-56FR	CONTINUOUS
	057	1SPD-56FR	MBHP
	058	2SPD-56FR	MBHP
XP3	080	1SPD-48FR	CONTINUOUS
	081	2SPD-48FR	CONTINUOUS
	082	1SPD-56FR	CONTINUOUS
	083	2SPD-56FR	CONTINUOUS
	087	1SPD-56FR	MBHP
	088	2SPD-56FR	MBHP
TMCP	017	1SPD-48FR	CONTINUOUS
	018	2SPD-48FR	CONTINUOUS
	039	1SPD-48FR	MBHP
	041	2SPD-48FR	MBHP
FMHP	020	1SPD-48FR	CONTINUOUS
	021	2SPD-48FR	CONTINUOUS
	030	1SPD-48FR	MBHP
	031	2SPD-48FR	MBHP
FMCP	025	1SPD-48FR	CONTINUOUS
	026	2SPD-48FR	CONTINUOUS
	035	1SPD-48FR	MBHP
	036	2SPD-48FR	MBHP

aqua-flo PUMP PARTS

Pond-Flo Series Pumps

ITEM # / MFG #	DESCRIPTION
1-05-0356 / 91040261	Complete 6" X 2" Trap Assembly



COMPLETE "56 FRAME" WET ENDS

ITEM # / MFG #	DESCRIPTION
1-05-0381 / 91041631-000	Wet End 3.0HP 2" XP2 56FR STD Drain
1-05-0382 / 91041634-000	Wet End 1.5HP 2" XP2 56FR STD Drain
1-05-0369 / 91041633-100	XP2 Wet end 2.5HP, 6.3" Diameter
1-05-0385 / 91041623-100	XP2 Wet end 2.5HP, 6.1" Diameter



Flo-Master XP / XP2 Series

COMPLETE "56 FRAME" PUMPS

ITEM # / MFG #	DESCRIPTION
1-00-0145 / 078306-1340	Pump 3.6HP 230V, 60HZ, 2-Speed
1-00-0146 / 07826787-2041	XP2 Pump 2.5 HP, 2" 230V, 60HZ, 2-Speed
1-00-0156A / 9920-100369	XP2 Pump 1.5 HP 115V, VC 2, 2-Speed



Flo-Master XP3

COMPLETE "56 FRAME / 6.3" Diameter" PUMPS

ITEM # / MFG #	DESCRIPTION
1-00-0166 / 8342761-2	FMCP, RO, 1.0 hp 115v, 1 spd

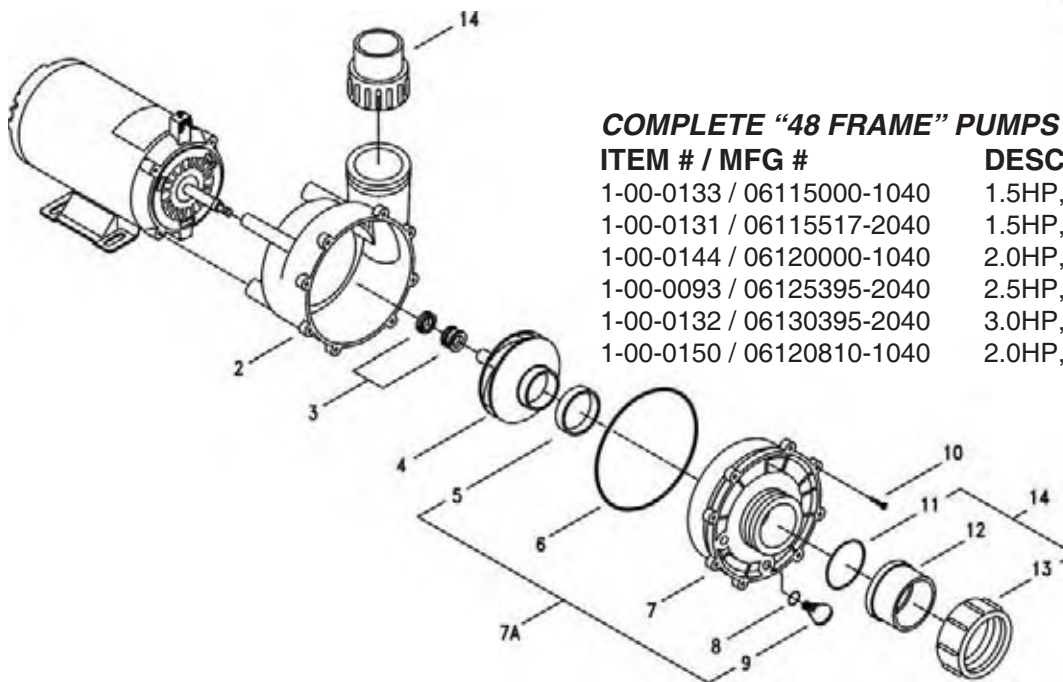
COMPLETE WET ENDS

ITEM # / MFG#	DESCRIPTION
1-05-0390 / 91042125-0	2.5 HP, 2.5" Side Discharge
1-05-0391 / 91042130-0	3.0 HP, 2.5" Side Discharge
1-05-0392 / 91042140-0	4.0 HP, 2.0" Side Discharge



aqua-flo PUMP PARTS (continued)

Flo-Master XP / XP2 Series



COMPLETE "48 FRAME" PUMPS

ITEM # / MFG #	DESCRIPTION
1-00-0133 / 06115000-1040	1.5HP, 110V, 2-Speed
1-00-0131 / 06115517-2040	1.5HP, 220V, 2-Speed
1-00-0144 / 06120000-1040	2.0HP, 220V, 2-Speed
1-00-0093 / 06125395-2040	2.5HP, 220V, 2-Speed
1-00-0132 / 06130395-2040	3.0HP, 220V, 2-Speed
1-00-0150 / 06120810-1040	2.0HP, 240V, 2-Speed, 50Hz

ITEM # / MFG#	REF	DESCRIPTION
1-05-0228 / 92500150	3	Seal, Replacement, #200
1-05-0242 / 92770705	2	Volute: XP2
1-05-0243 / 91694150	4	Impeller: XP2 1.5HP
1-05-0244 / 91694200	4	Impeller: XP2 2.0HP
1-05-0245 / 91694251	4	Impeller: XP2 2.5HP
1-05-0246 / 91694300	4	Impeller: XP2 3.0HP
1-05-0384 / 91694400	4	Impeller: XP2 4.0HP 50Hz
1-05-0247 / 92830070	5	Wear Ring: XP2
1-05-0248 / 92200300	6	Volute O-ring: XP2
1-05-0249 / 91231606	7	Cover Suction: XP2 2"
1-05-0250 / 56910090	7A	Replacement Kit Cover Complete
1-05-0251 / 92200060	8	Drain Plug O-ring: XP2
1-05-0252 / 92290070	9	Drain Plug, 1/4"
1-05-0253 / 99730050	10	Screw, 8-32 x 5/8" Long
4-10-1214 / 52202000	14	Fitting, Complete 2" x 2"
See Ref 14 / 92200210	11	O-ring, #230 (Sold in 4-10-1214)
See Ref 14 / 91431200	12	Fitting, Tailpiece, 2" B Flng x 2"S (Sold in 4-10-1214)
See Ref 14 / 91431150	13	Fitting, Union Nut, 2" FBT (Sold in 4-10-1214)

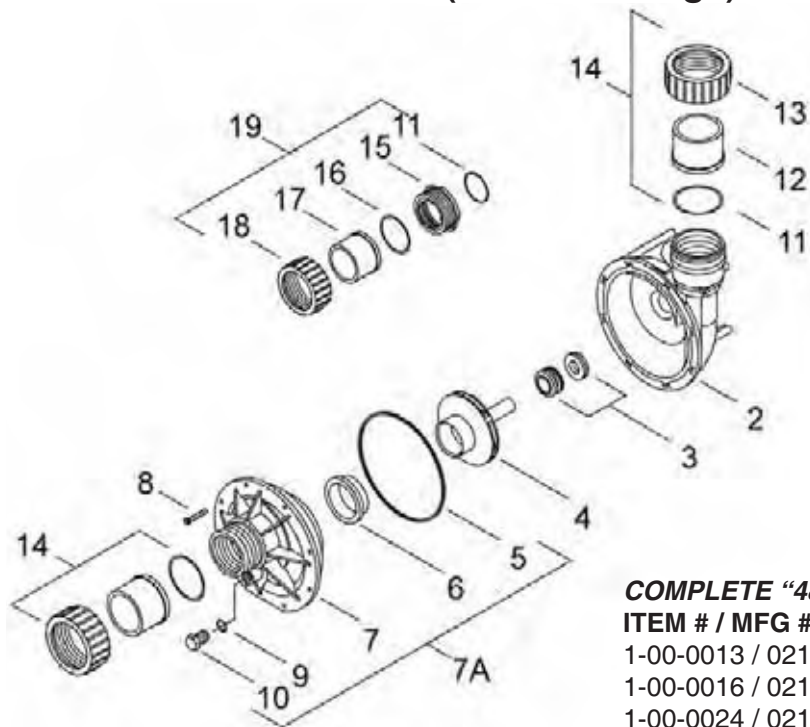
COMPLETE WET ENDS

ITEM # / MFG#	DESCRIPTION
1-05-0327 / 91041609	1.5 HP, 2.0" Side Discharge
1-05-0328 / 91041610	2.0 HP, 2.0" Side Discharge
1-05-0329 / 91041611	2.5 HP, 2.0" Side Discharge
1-05-0330 / 91041612	3.0 HP, 2.0" Side Discharge



aqua-flo PUMP PARTS (continued)

Flo-Master FMHP Series (Side Discharge)



COMPLETE "48 FRAME" FMHP PUMPS

ITEM # / MFG #	DESCRIPTION
1-00-0013 / 02107000-101	.75HP, 120V, 2-Speed
1-00-0016 / 02110000-1010	1.0HP, 110V, 2-Speed
1-00-0024 / 02115000-1010	1.5HP, 110V, 2-Speed
1-00-0033 / 02115005-1010	1.5HP, 220V, 2-Speed
1-00-0055 / 02120000-1010	2.0HP, 220V, 2-Speed
1-00-0143 / 03120203-1010	3.6HP, 220V, 2-Speed
1-00-0079 / 02015001-201	1.5HP, 240V, 1-Speed

ITEM # / MFG#	REF	DESCRIPTION
1-05-0255 / 92770501	2	Volute: FMHP
1-05-0228 / 92500150	3	Pump Seal
1-05-0257 / 91693501	4	Impeller: 1/2HP
1-05-0258 / 91693551	4	Impeller: 3/4HP
1-05-0259 / 91693601	4	Impeller: 1 HP
1-05-0260 / 91693651	4	Impeller: 1.5HP
1-05-0261 / 91693700	4	Impeller: 2.0HP
1-05-0262 / 92830062	6	Wear Ring: FM Series
1-05-0263 / 92200090	5	Volute O-ring: FM Series #158
1-05-0264 / 91231301	7	Cover Suction: FMHP 1.5"
1-05-0253 / 99730050	8	Screw, 8-32 x 5/8"
1-05-0266 / 92200120	9	Drain Plug O-ring: FM Series
1-05-0268 / 92290015	10	Pipe Plug, 1/4"
4-10-1215 / 50100120	15	Adapter THD 1.5" FBT x 2" MBT
4-10-1216 / 52202100	19	Adapter 2" Complete Fitting
1-05-0270 / 56910010	7A	Replacement Kit Cover Complete
4-10-1213 / 52201000	14	Union Complete 1.5" (Reference #'s 11, 12, 13)

Item # / Mfg

1-05-0267 / 91040281

Description

Trap Assembly for FMHP, 5" x 1 1/2"

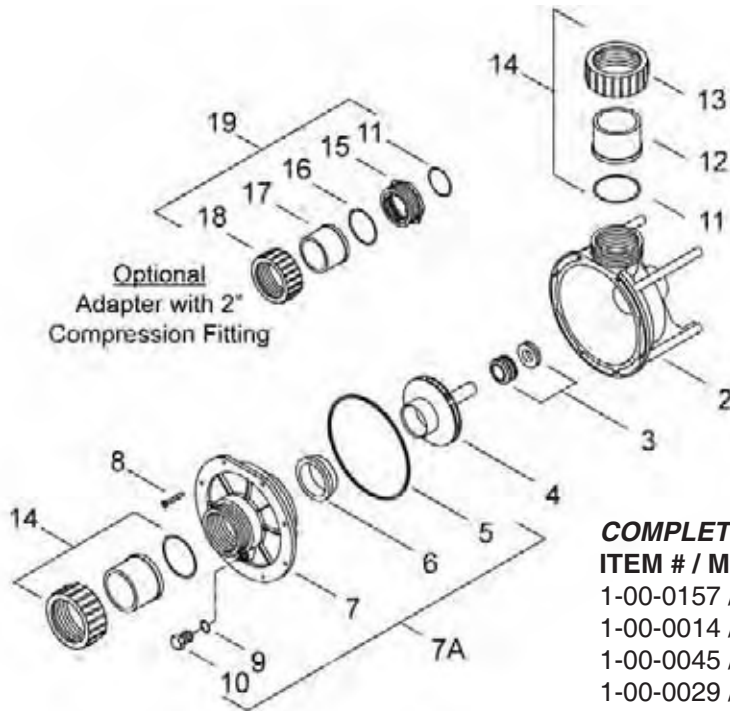
COMPLETE FMHP WET ENDS

ITEM # / MFG #	DESCRIPTION
1-05-0325 / 91040680	1/2 HP, 1.5" Side Discharge
1-05-0326 / 91040690	3/4 HP, 1.5" Side Discharge
1-05-0107 / 91040700	1.0 HP, 1.5" Side Discharge
1-05-0118 / 91040720	1.5 HP, 1.5" Side Discharge
1-05-0112 / 91040730	2.0 HP, 1.5" Side Discharge



aqua-flo PUMP PARTS (continued)

Flo-Master FMCP Series (Center Discharge)



COMPLETE "48 FRAME" FMCP PUMPS

ITEM # / MFG #	DESCRIPTION
1-00-0157 / 02607000	.75HP, 120V, 2-Speed
1-00-0014 / 02610000-1010	1.0HP, 110V, 2-Speed
1-00-0045 / 02615000-1010	1.5HP, 110V, 2-Speed
1-00-0029 / 02615005-1010	1.5HP, 220V, 2-Speed
1-00-0043 / 02620000-1010	2.0HP, 220V, 2-Speed

ITEM # / MFG#	REF	DESCRIPTION
1-05-0256 / 92770603	2	Volute: FMCP
1-05-0228 / 92500150	3	Pump Seal
1-05-0257 / 91693501	4	Impeller: 1/2HP
1-05-0258 / 91693551	4	Impeller: 3/4HP
1-05-0259 / 91693601	4	Impeller: 1 HP
1-05-0260 / 91693651	4	Impeller: 1.5HP
1-05-0261 / 91693700	4	Impeller: 2.0HP
1-05-0262 / 92830062	6	Wear Ring: FM Series
1-05-0095 / 92200270	5	Volute O-ring: FM Series #251
1-05-0265 / 91231402	7	Cover Suction: FMCP 1.5"
1-05-0253 / 99730050	8	Screw, 8-32 x 5/8"
1-05-0266 / 92200120	9	Drain Plug O-ring: FM Series
1-05-0268 / 92290015	10	Pipe Plug, 1/4"
4-10-1215 / 50100120	15	Adapter THD 1.5" FBT x 2" MBT
4-10-1216 / 52202100	19	Adapter 2" Complete Fitting
1-05-0269 / 56910040	7A	Replacement Kit Cover Complete
4-10-1213 / 52201000	14	Union Complete 1.5" (Reference #'s 11, 12, 13)

Item # / Mfg

1-05-0267 / 91040281

Description

Trap Assembly for FMCP, 5" x 1 1/2"



COMPLETE FMCP WET ENDS

ITEM # / MFG #	DESCRIPTION
1-05-0322 / 91040830	1/2 HP, 1.5" Center Discharge
1-05-0323 / 91040800	3/4 HP, 1.5" Center Discharge
1-05-0114 / 91040810	1.0 HP, 1.5" Center Discharge (shown)
1-05-0119 / 91040820	1.5 HP, 1.5" Center Discharge
1-05-0190 / 91040840	2.0 HP, 1.5" Center Discharge

aqua-flo PUMP PARTS (continued)

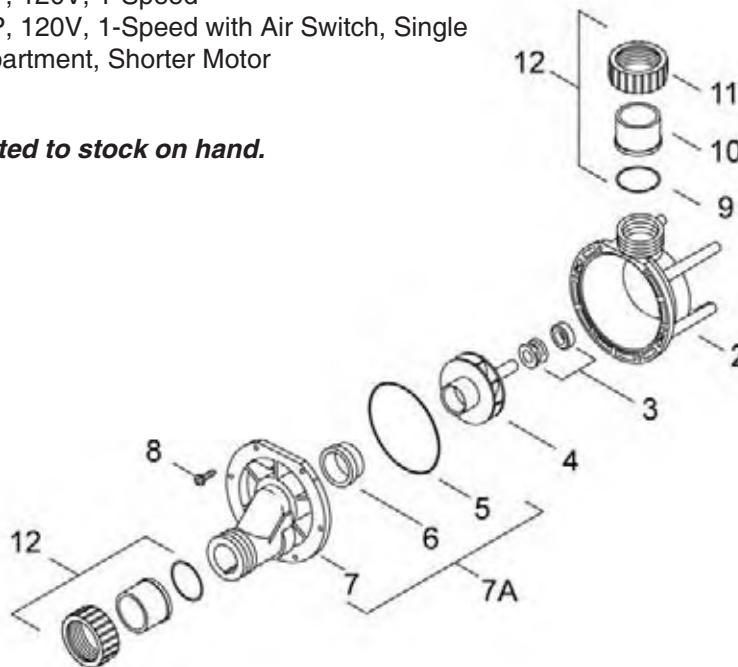
TMCP Series (Center Discharge - Self Drain)

COMPLETE "48 FRAME" TMCP PUMPS

ITEM # / MFG #	DESCRIPTION
1-00-0070 / 01707246-201*	.75HP, 120V, 1-Speed with 10 minute timer and water level sensor
1-00-0071 / 01710000	1.0HP, 120V, 1-Speed
1-00-0073 / 01710503-201	1.0HP, 120V, 1-Speed with Air Switch, Single Compartment, Shorter Motor



**Limited to stock on hand.*



ITEM # / MFG#	REF	DESCRIPTION
1-05-0256 / 92770603	2	Volute: TMCP
1-05-0228 / 92500150	3	Seal Replacement, #200
1-05-0257 / 91693501	4	Impeller: 1/2HP
1-05-0258 / 91693551	4	Impeller: 3/4HP
1-05-0259 / 91693601	4	Impeller: 1 HP
1-05-0260 / 91693651	4	Impeller: 1.5HP
1-05-0261 / 91693701	4	Impeller: 2.0HP
1-05-0263 / 92200270	5	O-ring, Volute
1-05-0262 / 92830062	6	Wear Ring: FM Series
1-05-0097 / 56910050	7	Cover, Suction
1-05-0253 / 99730050	8	Screw, 8-32 x 5/8"
1-05-0355 / 56910060	7A	Replacement Kit Cover Complete
4-10-1213 / 52201000	12	Fitting, Union Complete 1.5"
See Ref 12 / 92200140	9	O-ring, Union (Sold in 4-10-1213)
See Ref 12 / 91431050	10	Fitting, Tail Piece, 1 1/2" (Sold in 4-10-1213)
See Ref 12 / 91431000	11	Fitting, Union Nut, 1 1/2" (Sold in 4-10-1213)

COMPLETE TMCP WET ENDS

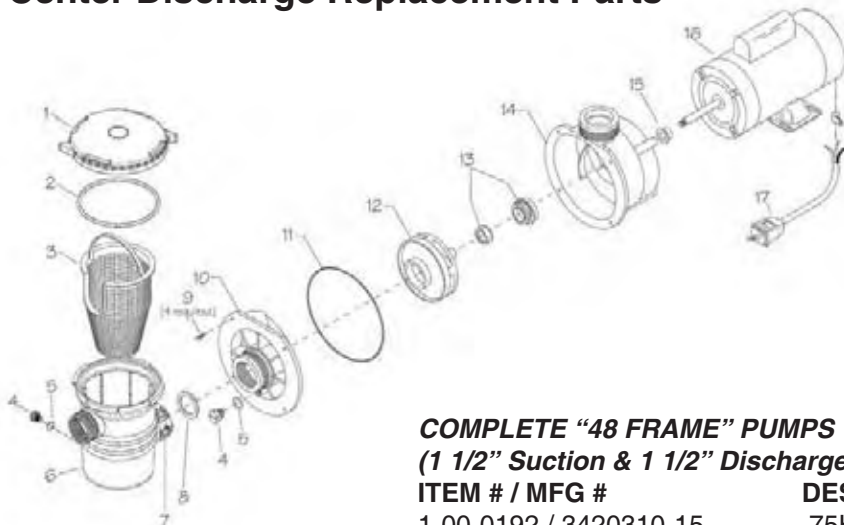
ITEM # / MFG #	DESCRIPTION
1-05-0113 / 91041005	3/4 HP, 1.5" Center Discharge (self drain) - (shown)
1-05-0324 / 91041010	1.0 HP, 1.5" Center Discharge (self drain)
1-05-0215 / 91041020-000	2.0 HP, TMCP





PUMPS & PARTS

Center Discharge Replacement Parts



COMPLETE "48 FRAME" PUMPS (1 1/2" Suction & 1 1/2" Discharge)

ITEM # / MFG #	DESCRIPTION
1-00-0192 / 3420310-15	.75HP, 120V, 2-Speed, 8.8 / 2.6 Amps
1-00-0193 / 3420410-15	1.0HP, 120V, 2-Speed, 11.0 / 2.9 Amps
1-00-0194 / 3420610-15	1.5HP, 120V, 2-Speed, 16.4 / 4.4 Amps
1-00-0195 / 3420620-15	1.5HP, 240V, 2-Speed, 8.0 / 2.6 Amps
1-00-0196 / 3420820-15	2.0HP, 240V, 2-Speed, 10.5 / 2.6 Amps

ITEM # / MFG#	REF	DESCRIPTION	Item #/ Mfg #
1-05-0271 / 319-3260	1	Lid, 6" Trap, Easy Lock	1-00-8000 / 310-5400
1-05-0272 / 805-0436	2	O-ring, 6" Trap	
1-05-0273 / 319-3230	3	6" Trap Basket Assembly	Description: Leaf Trap 1 1/2" Union x 1 1/2" FPT
1-05-0274 / 715-1201	4	3/8" Quarter Slot Plug	
1-05-0275 / 805-0112	5	O-ring, Wet End Drain Plug	
1-05-0276 / 319-2160	6	6" Trap Body 1 1/2" x 1 1/2"	
2-05-0038-A/415-5201	7	1 1/2" Split Nut	
1-05-0278 / 711-4000	8	1 1/2" Union Gasket	
1-05-0253 / 819-1110	9	Screw (4) - (Replaces item #1-05-0254)	
1-05-0279 / 311-1110	10	Faceplate	
1-05-0280 / 311-2110	N/A	Faceplate, Full Drain Bath	
1-05-0281 / 805-0252	11	O-ring, Faceplate Volute	
1-05-0282 / 310-5110	12	Impeller: 1/2HP	
1-05-0283 / 310-5120	12	Impeller: 3/4HP	
1-05-0284 / 310-5130	12	Impeller: 1HP	
1-05-0285 / 310-5140	12	Impeller: 1.5HP	
1-05-0286 / 310-5200	12	Impeller: 2.0HP	
1-05-0109 / PS1000	13	Seal Set	
1-05-0287 / 315-1120	14	Volute	
1-05-0288 / 313-1400	15	Slinger	

COMPLETE WET ENDS

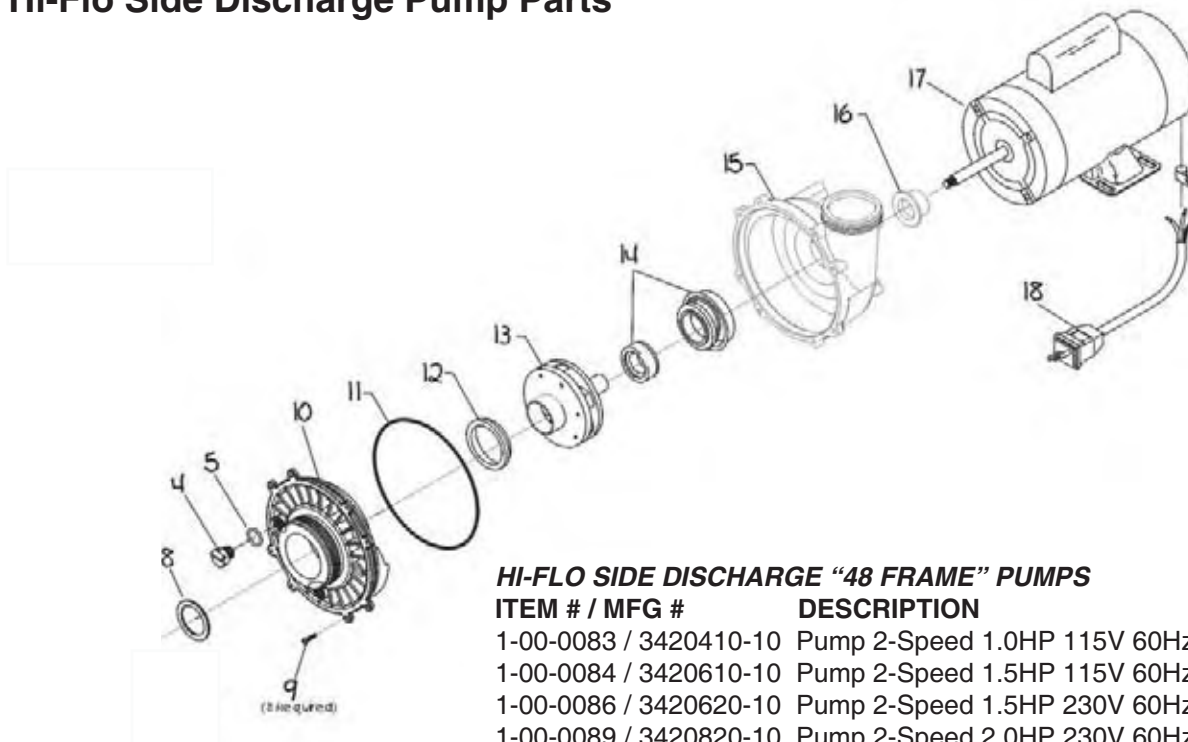
ITEM # / MFG #	DESCRIPTION
1-05-0334 / 310-1120	.75HP, 1.5"
1-05-0335 / 310-1130	1.0HP, 1.5"
1-05-0336 / 310-1140	1.5HP, 1.5"
1-05-0337 / 310-1141	2.0HP, 1.5"





PUMP PARTS (continued)

Hi-Flo Side Discharge Pump Parts



HI-FLO SIDE DISCHARGE "48 FRAME" PUMPS

ITEM # / MFG #	DESCRIPTION
1-00-0083 / 3420410-10	Pump 2-Speed 1.0HP 115V 60Hz WW
1-00-0084 / 3420610-10	Pump 2-Speed 1.5HP 115V 60Hz WW
1-00-0086 / 3420620-10	Pump 2-Speed 1.5HP 230V 60Hz WW
1-00-0089 / 3420820-10	Pump 2-Speed 2.0HP 230V 60Hz WW
1-00-0090 / 3421221-10	Pump 2-Speed 3.0HP 230V 60Hz WW

ITEM # / MFG#	REF	DESCRIPTION
1-05-0274 / 715-1201	4	3/8" Quarter Slot Plug
1-05-0275 / 805-0112	5	O-ring Drain Plug
1-05-0254 / 819-1110	9	Screw (8 required)
1-05-0289 / 311-2140	10	2" Intake Faceplate Volute
1-05-0290 / 805-0256	11	O-ring, Faceplate Volute
1-05-0291 / 319-1390	12	Wear Ring
1-05-0292 / 310-3990	13	Impeller: .75 HP
1-05-0293 / 310-4000	13	Impeller: 1 HP
1-05-0294 / 310-4010	13	Impeller: 1 1/2 HP
1-05-0295 / 310-4030	13	Impeller: 2 HP
1-05-0296 / 310-4020	13	Impeller: 3 HP
1-05-0359 / 310-4050	13	Impeller: 4 HP
1-05-0109 / PS1000	14	Seal Kit
1-05-0297 / 315-2500	15	Volute Housing
1-05-0288 / 313-1400	16	Slinger

COMPLETE WET ENDS

ITEM # / MFG #	DESCRIPTION
1-05-0338 / 310-1130SD	1.0HP, 2.0"
1-05-0339 / 310-1140SD	1.5HP, 2.0"
1-05-0340 / 310-1141SD	2.0HP, 2.0"
1-05-0341 / 310-1150SD	3.0HP, 2.0"
1-05-0342 / 310-1160SD	4.0HP, 2.0"





PUMP PARTS (continued)

"56 Frame" Executive Series Wet End Replacement Parts

Technical Note:

2 1/2" threads measure 3 5/8" OD
2" threads measure 3 1/16" OD



COMPLETE PUMPS (2" Suction & 2" Discharge)

ITEM # / MFG #	DESCRIPTION
1-00-0107 / 3721221-1D	3.0HP, 220V, 2-Speed, 10.0 / 3.4 Amps

ITEM # / MFG#	REF	DESCRIPTION
1-05-0274 / 715-1201	1	3/8" Plug, Air Relief
1-05-0299 / 805-0111	2	O-ring, #111 - Executive, Wet End Drain Plug
1-05-0300 / 819-0005	3	Screw, No. 8-32 x 7/16 PPH
1-05-0301 / 311-1210	4	"Executive" Faceplate 56 Frame 2 1/2"
1-05-0302 / 311-1220	4	"Executive" Faceplate 56 Frame 2"
1-05-0303 / 319-1370	6	Wear Ring, Executive Pump 4-5 HP
1-05-0304 / 319-1380	6	Wear Ring, Executive Pump 1, 2 & 3 HP
1-05-0305 / 805-0261	5	O-ring 261, Volute for Executive Faceplate
1-05-0306 / 310-4220	7	1 HP Impeller Assembly
1-05-0307 / 310-4210	7	2 HP Impeller Assembly
1-05-0308 / 310-4200	7	3 HP Impeller Assembly
1-05-0309 / 310-4190	7	4 HP Impeller Assembly
1-05-0310 / 310-4180	7	5 HP Impeller Assembly
1-05-0109 / PS1000	8	Pump Seal Set
1-05-0311 / 315-1220	9	"Executive" Volute 56 Frame with Inserts
1-05-0288 / 313-1400	10	Slinger

**We Now Stock
4HP & 5HP 56
Frame Motors.
See [Page 112](#).**



**"56 FRAME" EXECUTIVE SERIES
COMPLETE WET ENDS**

ITEM # / MFG #	DESCRIPTION
1-05-0350 / 310-1460	1.0HP, 2.5" Suction
1-05-0351 / 310-1480	2.0HP, 2.5" Suction
1-05-0352 / 310-1500	3.0HP, 2.5" Suction
1-05-0353 / 310-1440*	4.0HP, 2.5" Suction
1-05-0354 / 310-1510*	5.0HP, 2.5" Suction

**"56 FRAME" EXECUTIVE SERIES
COMPLETE WET ENDS**

ITEM # / MFG #	DESCRIPTION
1-05-0371 / 310-1710	1.0HP, 2.0" Suction
1-05-0372 / 310-1720	2.0HP, 2.0" Suction
1-05-0373 / 310-1730	3.0HP, 2.0" Suction
1-05-0374 / 310-1740*	4.0HP, 2.0" Suction
1-05-0375 / 310-1750*	5.0HP, 2.0" Suction

*Will work with 56 Frame Pump Motors on [page 108](#).



PUMP PARTS (continued)

ITEM # / MFG#	DESCRIPTION
4-15-0082 / 310-6700	Leaf Trap Workman 2" x 2" WW 6"

"48 Frame" Executive Series Wet End Replacement Parts

ITEM # / MFG#	DESCRIPTION	REF
1-05-0274 / 715-1201	3/8" Plug, Air Relief	1
1-05-0299 / 805-0111	O-ring, #111 - Executive, Wet End Drain Plug	2
1-05-0300 / 819-0005	Screw, No. 8-32 x 7/16 PPH	3
1-05-0301 / 311-1210	"Executive" Faceplate 56 Frame 2 1/2"	4
1-05-0302 / 311-1220	"Executive" Faceplate 56 Frame 2"	4
1-05-0303 / 319-1370	Wear Ring, Executive Pump 4-5 HP	5
1-05-0304 / 319-1380	Wear Ring, Executive Pump 1, 2 & 3 HP	5
1-05-0305 / 805-0261	O-ring 261, Volute for Executive Faceplate	6
1-05-0313 / 310-4230	3/4 HP Impeller Assembly	7
1-05-0306 / 310-4220	1 HP Impeller Assembly	7
1-05-0307 / 310-4210	2 HP Impeller Assembly	7
1-05-0308 / 310-4200	3 HP Impeller Assembly	7
1-05-0109 / PS1000	Pump Seal Set	8
1-05-0318 / 315-1240	"Executive" Volute 48 Frame with Inserts	9
1-05-0288 / 313-1400	Slinger	10

**Refer to Diagram on
Previous Page with
"56 Frame" Executive
Series Wet End Re-
placement Parts**

"48 FRAME" EXECUTIVE SERIES COMPLETE PUMPS with 2" SUCTIONS

ITEM # / MFG #	DESCRIPTION
1-00-0087 / 3420410-1A	1.0HP, 110V, 2-Speed, 11.0 / 2.9 Amps (shown right)
1-00-0082 / 3420610-1A	1.5HP, 110V, 2-Speed, 16.4 / 4.4 Amps
1-00-0186 / 3420620-1A	1.5HP, 220V, 2-Speed, 8.0 / 2.6 Amps
1-00-0187 / 3420820-1A	2.0HP, 220V, 2-Speed, 10.5 / 2.6 Amps
1-00-0188 / 3421221-1A	3.0HP, 220V, 2-Speed, 8.5 / 2.8 Amps
1-00-0189 / 3421821-1A	4.5HP, 220V, 2-Speed, 12.0 / 3.5 Amps



"48 FRAME" EXECUTIVE SERIES COMPLETE WET ENDS

ITEM # / MFG #	DESCRIPTION
1-05-0343 / 310-1870	1.0HP, 2.0" Suction
1-05-0344 / 310-1880	1.5HP, 2.0" Suction
1-05-0345 / 310-1890	2.0HP, 2.0" Suction
1-05-0346 / 310-1900	3.0HP, 2.0" Suction
1-05-0347 / 310-1910	4.0HP, 2.0" Suction
1-05-0348 / 310-1920	4.5HP, 2.0" Suction
1-05-0349 / 310-1930	5.0HP, 2.0" Suction



Self Draining Complete Bath Wet Ends

ITEM # / MFG #	DESCRIPTION
1-05-0331 / 310-2120	3/4HP, 1.5"
1-05-0332 / 310-2130	1.0HP, 1.5"
1-05-0333 / 310-2140	1.5HP, 1.5"
1-05-0357 / 310-2141	2.0HP, 1.5"



PUMP MOTORS

A.O. Smith Motors: 48 Frame - Thru Bolt- Spa & Above Ground Pool

ITEM # / MFG #	DESCRIPTION
1-20-0016 / 93491001	3/4 HP, 1SP, 120V, 60 Hz
1-20-0017 / 93521055	3/4 HP, 1SP, 240V, 60 Hz
1-20-0001 / BN36	3/4HP, 2SP, 115V, 8.8 / 2.6 Amps
1-20-0002 / BN37	1.0HP, 2SP, 115V, 11.0 / 2.9 Amps
1-20-0003 / BN50	1.5HP, 2SP, 115V, 16.4 / 4.4 Amps
1-20-0004 / BN34	1.5HP, 2SP, 230V, 8.0 / 2.6 Amps
1-20-0005 / BN51	2.0HP, 2SP, 230V, 10.5 / 2.6 Amps
1-20-0006 / BN62	3.0HP, 2SP, 230V, 12.0 / 3.5 Amps



Emerson Motors: 48 Frame - Thru Bolt- Spa & Above Ground Pool

ITEM # / MFG #	DESCRIPTION
1-20-0007 / AGL75FL2	3/4HP, 2SP, 115V, 9.8 / 3.2 Amps
1-20-0008 / AGL10FL2S	1.0HP, 2SP, 115V, 10.3 / 3.8 Amps
1-20-0009 / AGL15FL2CS	1.5HP, 2SP, 115V, 16.4 / 4.4 Amps
1-20-0010 / AGL15FL2CS	1.5HP, 2SP, 230V, 8.0 / 2.5 Amps
1-20-0011 / AGL20FL2CS	2.0HP, 2SP, 230V, 10.5 / 3.0 Amps
1-20-0012 / AGL30FL2S	3.0HP, 2SP, 230V, 12.7 / 3.4 Amps



A.O. Smith

56 Frame - Thru Bolt- Spa & Above Ground Pool

ITEM # / MFG #	DESCRIPTION
1-20-0014 / 372162	4HP, 2SP, 230V, 12.0 / 4.4 Amps
1-20-0015 / 3722021	5HP, 2SP, 230V, 16.4 / 4.8 Amps

Please Note: Will work with 56 Frame Wet Ends on page 101.

FIND WHAT YOU ARE LOOKING FOR IN OUR **DISCOUNT DAZE** INVENTORY, WITH NEW AND/OR SLIGHTLY USED CONTROLS, PACKS AND PARTS OFFERED AT VERY LOW PRICES.

Call Toll Free **800-237-9937**

or Fax Free **866-909-7278**

or Order Online Free

www.AlliedInnovations.com

ONLY AT


PUMP UNIONS

AQUA-FLO PUMP UNIONS

ITEM #	MFG #	DESCRIPTION
4-25-0105	52203000	2 X 1.5 Pump Half Union (Set of 2)
4-10-1213	52201000	1.5 S Pump Half Union
4-10-1214	52202000	2 S Pump Half Union; 42-0049
4-10-1215	50100120	1.5 FBT X 2 MBT Adapter Threaded
4-10-1216	52202100	2 MBT X 1.5 FBT Adapter (Set of 2)



HAYWARD POOL PRODUCTS PUMP UNIONS

ITEM #	MFG #	DESCRIPTION
4-10-0046*	SP1500UNPAK2C	1.5 FVT X 2 SPG X 1.5 S Pump Half Union (Set of 2)
4-10-0047	SP1500UNPAK2	1.5 FVT X 1.5 MBT X 1.5 S Pump Half Union (Set of 2)



*Limited to stock on hand.

MAGIC PLASTICS PUMP UNIONS

ITEM #	MFG #	DESCRIPTION
2-05-0045	0121109015	Split Nut 1-1/2" with screws for pump (shown right)
2-05-0047	0121109020	Split Nut 2" with screws for pump



SONFARREL PUMP UNIONS

ITEM #	DESCRIPTION
1-05-0153	2 S Pump Half Union



VALTERRA PUMP UNIONS

ITEM #	MFG #	DESCRIPTION
4-25-0099	2098-1W	1.5 S Pump Half Union PVC White
4-25-0100	2098-2W	2 S Pump Half Union PVC White



PENTAIR (VICO) PUMP UNIONS

ITEM #	MFG #	DESCRIPTION
1-05-0209		*1.5 S Pump Half Union (Set of 2)
1-05-0234	UPULNUT2 / UPULF2	2 S Pump Half Union (Set of 2)
SD6500-817	6500-817	2" Pump 45 Degree Union Fitting



*Limited to stock on hand.

PUMP UNIONS (continued)



ITEM #	MFG #	DESCRIPTION
4-10-0037	400-4060	1.5 S Pump Half Union Also Fits Premier Pumps
4-10-0038	415-4000	*Union Nut, 1.5 WW Union
4-25-0200	400-4080	Union Adapter 1.5 MVT X 1.5 FBT Hayward To Aqua Flo



1-05-0135	400-5570	2 S Pump Half Union
1-05-0136	400-9230	2" Nut x 2" SPG x 1.5" S Pump Union
1-05-0139	400-6010	2.5 S Pump Half Union
1-05-0185	400-5990	*2.5 X 2 S Pump Half Union (no o-ring)



Fits Tiny Might

1-05-0134	400-0134	1" W/1/2"S Pump Union Nut Assy
1-05-0206	400-1960	1 X .75 S Pump Half Union
4-10-1211	400-1990	1 FBT X 1 S Pump Half Union
4-10-1212	400-1970	1 FBT X 1 Barb Pump Half Union



4-10-0040 /	417-4010	*1.5 Buttress Thread X 1.5 Slip Tailpiece
4-10-0041 /	417-4020	*1.5 Buttress Thread X 1.5 S X Short Tailpiece
4-10-0042 /	417-4030	1.5 Buttress Thread X 1.5 SPG Tailpiece
4-10-0045 /	417-4060	*1.5 Buttress Thread X 1.5 MIPT Tailpiece



**Limited to stock on hand.*



PUMP UNION COMPONENTS

ITEM #	MFG #	DESCRIPTION
2-05-0093 /	711-4020	Gasket 1/4"TH 2"FLT Heater/ Pump



Pump Accessories

ITEM #	DESCRIPTION
	Magic Lube
8-05-0008 / 630	1 oz. Tube
8-05-0009 / 631	5 oz. Tube



AIR BLOWERS

Mushroom (Indoor / Outdoor Use)

Outlet: 2.0" Bottom Discharge

ITEM # / MFG #	DESCRIPTION
1-10-0007A*	1.0HP, 110V (may also use 1-10-0007A-SP)



*Limited to Stock On Hand.

Standard ABS (Indoor Use Only)

Outlet: 2.0" Discharge

ITEM # / MFG #	DESCRIPTION
1-10-0023A*	1.0HP, 110V (may also use 1-10-0023A-SP)
1-10-0024A	1.0HP, 220V
1-10-0035A*	1.5HP, 110V
1-10-0034A*	1.5HP, 220V



*Limited to Stock On Hand.

Silent Series ABS (Indoor Use Only)

Outlet: 2.0" Discharge

ITEM # / MFG #	DESCRIPTION
1-10-0025A*	1.0HP, 110V (may also use 1-10-0025A-SP)
1-10-0026A*	1.0HP, 240V (may also use 1-10-0026A-HQ)
1-10-0019A*	1.5HP, 110V (may also use 1-10-0019A-HQ)
1-10-0018A*	1.5HP, 240V (may also use 1-10-0018A-HQ)
1-10-0022A*	2.0HP, 220V
1-10-0039*	1.0HP, 220V



*Limited to Stock On Hand.

Silent Series ABS (Indoor Use Only)

Outlet: 2.0" Discharge

ITEM # / MFG #	DESCRIPTION
1-10-0026A-HQ / SA-600-240	1.0 HP, 240V, 2.3 AMP, w/ Cord
1-10-0019A-HQ / SA-800-120	1.5 HP, 120V, 7.0 AMP, w/ Cord
1-10-0018A-HQ / SA-800-240	1.5 HP, 240V, 3.6 AMP, w/ Cord



Note: For MJJ connection, use cord adapter part # 5-50-0076.

For NEMA connection, use cord adapter part # 5-50-0075.

Please specify cord type (see following page) for all blowers above. For AMP ratings, see page 116.



HIGH PERFORMANCE AIR BLOWER

New universal, compact, quiet and powerful blower

- 850W motor 120V/240V
- Integrated silencer
- Efficient ceramic heater (600W)
- Thermal protection of motor and heater
- Fits MAS-TH and THH Gecko integrated boards
- Perfect companion of Gecko's complete line of electronic controls for whirlpools, therapeutic baths, spas and hot tubs.
- Can be used as replacement for retrofit applications



air.wav
high performance air blower series by Gecko Electronics Inc.

ITEM # / MFG

1-10-0105 / 0106-400008

DESCRIPTION

240V, with in.link connector

1-10-0101 / 0106-400009

240V, 60Hz, 3.6Amp with MJJ Cord

1-15-0101 / 9917-101091 Silencer for air.wav
Cuts noise levels at the air intake by about 10 db.Small and efficient. Recommended for bath tub applications.

Air Blower Motors (50 / 60 Hz)

ITEM # / BRETT AQUALINE # / SUNDANCE	DESCRIPTION	APPROX. AMP DRAW
1-15-0001 / 13-0001 / 6500-107	1.0HP, 110V	7A
1-15-0002 / 13-0003 / 6500-103 / 6500-107	1.0HP, 220V	4A
1-15-0003 / 13-0002	1.5HP, 110V	8A
1-15-0004 / 13-0004	1.5HP, 220V	4A
1-15-0005 / 115-826	2.0HP, 110V	9A



Blower Motor Accessories

8-05-0017 / 80112 Blower Replacement Brush (2 Pack)



HEATERS

- Featuring an ABS flame retardant plastic enclosure with an internal stainless steel leakage current collector.
- Convertible 1.5KW/120V and 6KW/240 circuit rating.
- High grade Incoloy heating element.
- Integral adjustable pressure switch.



Shown: HT-1 with Thermostat

HT-1 SPA HEATERS

ITEM #	MFG #	DESCRIPTION
90-220142	22-0142	HT-1 Replacement Heater Assy with Plumbing, EM-201/203 with Thermostat and Hi Limit
90-220143	22-0143	HT-1 Replacement Heater Assy with Plumbing, EM-201/203 without Thermostat (Hi Limit included)
90-221101	22-1BAQ-000-101	Standard Unit with Hi Limit, without Thermostat
90-221003	22-1103-R00-200	HT-1 Replacement Heater Assy with Plumbing, EM-103 without Thermostat and Hi Limit
90-221111	22-1BAQ-000-111	Standard Unit with Thermostat and Hi Limit
90-221301	22-1303-R00-211	HT-1 Replacement Heater Assy, EM-301 with Plumbing, with Thermostat and Hi Limit

All heater assemblies contain the heater housing, o-ring and heating element. The plastic heater assemblies contain optional thermostat, hi-limit and pressure switches.

HT HEATER PARTS

ITEM # / MFG #	DESCRIPTION
12-0001P	Heater Element, 5.5KW
120574	T'Stat Knob Cotherm
15-0001	Heater Housing, ABS Black
15-0002	Heater Housing Cover, ABS Black
38-0146	Heater Housing Assembly with Plumbing
29-9001	Heater - PL Element Replacement Kit Includes: Element, O-Ring
38-0123	Current Collector Assembly
60-0002K	O-Ring / Gasket Kit





HEATERS (continued)



ITEM # / MFG #	BRETT #	DESCRIPTION
2-00-5000 / 48-330-10-304H	22-5006/22-5012	Heater Complete: 5.5KW STD*** Brett Non Digital Units, Hydroquip, Pinnacle, Hurricane
2-00-5001 / 20-00318 / C2400-0066ET-A	22-5019	Heater Complete: 4.0KW DIGITAL** Fits all digital BL Series except BL-40
2-00-5002 / 20-00319 / C2550-0066ET-A	22-5020	Heater Complete: 5.5KW DIGITAL* Fits all digital BL Series except BL-40
2-00-5003 / 20-00317 / C2400-0314-ET	22-5011/90225011	Heater Complete: 4.0KW** Non Digital Units
2-00-5005 / 26-00110 / E2400-0221	22-5014/90-225014	Heater Complete: 4.0KW Vertical Element N/A

*Uses #2-05-0801 Tefel Coated Element 5.5KW

**Uses #2-05-0069 Element 4.0KW

***Uses #2-05-0025 Element 5.5KW

ITEM #	DESCRIPTION
485030*	Bath Heater Tub-T 1.5KW, 120V, 1x7 *Limited to Stock on Hand.



HEATERS

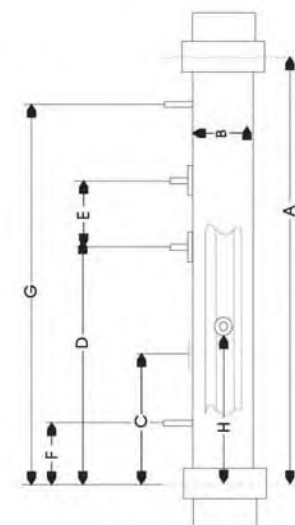
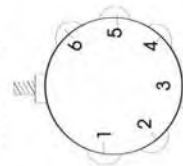


SBSG HEATER#	HEATER #	GECKO HEATER#	DESCRIPTION	ELEMENT#
2-00-7001		530AA0095	4.0KW Horizontal 2" S-CLASS.	2-05-0069
		530AA0078		
		530AA0394		
		530AA0448		
		530AA0459		
2-00-7003	C2550-0800ET-G	530AA0107	5.5KW Horizontal 2" S-CLASS	2-05-0801
2-00-7016	C2550-3101ET	530AA0120	5.5KW Horizontal 3" Tube w/ 2" Ends MCLASS. Limited to stock on hand.	2-05-0801
2-00-7007	C2550-0601ET-G	530AA0284	5.5KW Horizontal 2" M-CLASS	2-05-0801
		530AA0437		
2-00-7018	20-00540	53AA00234	4.0 KW Vertical 3" M-CLASS	N/A
		530AA0470	4.0 KW Horizontal 3"	

SBSG P/N	MFG P/N	ELEMENT	DESCRIPTION	A	B	C	D	E	F	G	I
2-00-0109	C2550-0056ET	2-05-0801	5.5 KW, 220 V AP-1/EP-1/LX-15/LX-35 (E.T.)	15"	2.0"	2 7/8"	4 1/4"	1 1/4"	1 3/4"	11 7/8"	5
2-00-0110	C2400-0056-ET	N/A	4.0 KW, 220 V EP-1 (E.T.)	15"	2.0"	2 7/8"	4 1/4"	1 1/4"	1 3/4"	11 7/8"	5
2-00-0040	C2400-0056	2-05-0069	4.0 KW, 220 V AP-1/1400/EP-1/LX-15	15"	2.0"	2 7/8"	4 1/8"	1 1/4"	1 7/8"	11 7/8"	5
2-00-0013	C2550-0056	2-05-0025	5.5 KW, 220 V AP-1/1400/EP-1/LX-15/LX-35	15"	2.0"	2 7/8"	4 1/8"	1 1/4"	1 7/8"	11 7/8"	5
2-00-0048	C2400-1002	2-05-0069	4.0 KW, 220 V AP-4/LX-10	12"	2.0"	6 1/2"	7 7/8"	1 1/4"	4 7/8"	10 1/8"	5
2-00-0052	C2550-1002	2-05-0025	5.5 KW, 220 V AP-4/LX-10	12"	2.0"	6 1/2"	7 7/8"	1 1/4"	4 7/8"	10 1/8"	5
2-00-0108	C2550-1002-ET	2-05-0801	5.5 KW, 220 V AP-4 (E.T.)	12"	2.0"	6 1/2"	7 7/8"	1 1/4"	4 7/8"	10 1/8"	5
2-00-0015	20-00407	2-05-0025	5.5 KW, 220 V Freedom	19"	2.0"	3.0"	4 3/8"	1 1/4"	2.0"	12"	5
2-00-0060	C2250-0003	N/A	2.5 KW, 220 V Heat Module	15"	2.0"	3 3/4"	9 1/8"	1 1/4"	3 1/2"	11 1/2"	6
2-00-0103	C1100-0211	2-05-0105	1.0 KW, 110 V PS-1	8 3/8"	1.5"	2 3/4"	4 1/8"	1 1/4"	1 5/8"	6 6/8"	5
2-00-0085	C2550-0155	2-05-0025	5.5 KW, 220 V Hercules	18"	2.0"	9 5/8"	11 1/8"	1 1/4"	4"	16"	3
2-00-0065	C2550-0256	2-05-0025	5.5 KW, 220 V LX-20/25/30	15"	2.0"	2 1/2"	9 1/2"	1 1/4"	1 5/8"	13 5/8"	5
2-00-0074	C2250-0256	N/A	2.5 KW, 220 V LX-20/25/30	15"	2.0"	2 1/2"	9 1/2"	1 1/4"	1 5/8"	13 5/8"	5



I. Thermo-shield Location



- A = Tube Length
- B = Tube Diameter
- C = Pressure Switch
- D = Heater Terminal
- E = Heater Terminal
- F = Mounting Bolt
- G = Mounting Bolt
- H = Thermo-shield
- I = Thermo-shield location

SPABUILDERS HEATERS

ITEM # / MFG #	DESCRIPTION	Photo Unavailable
2-00-0111 / C2550-1004	Heater 5.5kw 240v Flo Thru 12"	
2-00-0101	U-Shaped 220V, 11KW, 10 5/8" heater housing	
2-00-0011	Stainless Steel Heater 110V, 1.5KW, 13" 1 1/2" housing, (2) 5/16" thermowells 1 1/2" unions, 2 3/4" flange round plate Replacement: 2-05-0013	
2-00-0115 / C2550-0119	Hi-Flo Heater 220V, 6.0KW 15 1/2" stainless steel housing with heater Element item #2-05-0025 Used in Sundance, Watkins, Hot Springs	
2-00-0042 / A2550-2000	Econo New Housing (In-Line) 110/220V, 1.5/5.5KW, 13" Flange: 4"x 4" square for mounting; J-box; T-wells: 2 - 5/16" Unions: 1.5" Pressure switch hole: 1/8" FIPT 1.5" inlet and outlet, 2" around the heater for improved water flow	
2-00-0104 / 48-4300-10-V02*	Vulcan with high limit 110/220V, 1.5/5.5KW, 11 1/2" 1/8" FIPT Pressure switch hole, 1.5" FIPT, inlet and outlet	
2-00-0105 / 48-5300-10-V01*	Vulcan with high limit & thermostat (In-Line) 110/220V, 1.5/5.5KW, 11 1/2" 1/8" FIPT Pressure switch hole, 1.5" FIPT, inlet and outlet	
2-00-0073 / 48-3300-10-V03*	Vulcan with Metal Box	
*Limited to stock on hand. Note: Element cannot be removed.		
2-00-0116 / E2550-0351ET	Thermcore: Vertical Lo Flo 220V, 5.5KW, 11 1/2" Used on the AP-1400 control head (Leisure Bay only)	
2-00-0107 / E2400-0300ET	Thermcore: Vertical Lo Flo Heater Assy 4.0KW 240V ET Lo Flo	
6-05-0047	Brass 90° Fitting	

SPABUILDERS

HEATERS (continued)

S/S housing w/ heater 3/4" inlet & outlet, 2 Thermowells, 1 pressure switch hole 1/8" FIPT.

ITEM # / MFG

2-00-0066 / E2550-012

DESCRIPTION

Vertical LX Dynasty
 110/220V, 1.5/5.5KW, 11"
 Used on the AP-1400 control head.



2-00-0099 / E2250-0200ET

Vertical LX Palm Springs
 220V, 2.5KW, 11"

ADDITIONAL HEATERS

ITEM # / MFG

2-00-0123 / E2550-0202ET

DESCRIPTION

Leisure Bay Lo Flo (shown)
 110/240V, 1.5/5.5KW, 9"
 Will not work for Hurricane



2-00-0124 / E2550-020XET

Hurricane 1 Pressure Tap
 110/240V, 1.5/5.5KW



2-00-0119 / B2400-0001

Crystal Pure
 110/240V, 1.0/4.0KW, 9 1/2"
 Wires 45 degrees



HEATERS

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HEATERS (continued)

CRL

ITEM #	DESCRIPTION
2-00-0001*	M-1, Model 1 pre 1989 has 1" gap between heater tailpiece & tee 110/220V, 1.5/6.0KW 1 1/2" PVC
2-00-0003*	M-1, Model 3 1989 Used with manifolds that have split unions 110/220V, 1.5/6.0KW 1 1/2" PVC

**Limited to stock on hand.*



2-00-0006*	Includes Hayward Union
2-00-0008*	Includes Aqua-Flo / Premier Union & Barb 110/220V, 1.5/6.0KW 05 & 06 fit MVII units with flo switches 07 & 08 fit MVII units without flo switches which require a barb fitting

**Limited to stock on hand.*



ITEM # / MFG#	DESCRIPTION
2-00-5007 / 935212-21	Bath Heater Inline Pressure 1.5KW 7" Flo Thru with 1" Union
2-00-5008 / 935213-23	Bath Heater Inline Vacuum 1.5KW 7" Suction with 1.5" Union
2-00-5009 / 935211-21	Bath Heater Inline Tee 1.5KW T-Style with 1" Union



HEATERS (continued)

Jacuzzi Inline Heaters

ITEM# / MFG#

DESCRIPTION

2-00-0025 / A2550-2312-B

Jacuzzi Inline Heater without Hi Limit*

110/220V, 1.5/5.5KW,
 Length: 17 1/2" (Box 4" x 4 3/4" x 2 1/4")
 Note: Pressure switch hole 1/8" NPT,
 2.25" inlet and outlet, 2 ea. 5/16" thermowells.
 Box has four knockouts.



2-00-0025A / A2550-2312-B

Jacuzzi Inline Heater with box and Hi Limit*

110/240V, 1.5/5.5KW,
 Length: 17 1/2" (Box 4" x 4 3/4" x 2 1/4")
 Note: Pressure switch hole 1/8" NPT,
 2.25"FIPT inlet and outlet, 2 ea. 5/16" thermowells.
 Box has four knockouts.

J-Box, heater element, thermostat & high limit included. This type of heater was used from the late 1970's to the present.

2-00-0021

*110V, 1.5KW, 1 1/4" MIPT



2-00-0022

*220V, 6.0KW, 1 1/4" MIPT



**Limited to stock on hand.*

Mr. Spa

ITEM#

DESCRIPTION

2-00-0009

Mr. Spa UN-2

110V, 1.5KW, 1 1/4"
 Note: Early Mr Spa, 2 cords
 (1 Power, 1 Circ Pump) includes thermostat & high limit.



2-05-0034*

Heater Housing

PVC housing for Mr. Spa
 1 1/4" FIPT x 3/4" FIPT x 3/4" FIPT



**Limited to stock on hand.*

HEATERS (continued)

ITEM # / MFG

DESCRIPTION

2-05-0135 / 25-1464-430BC

Watkins

120V, 1.5KW, 10 1/2"

Flange: 4" x 4"

Use with gasket 2-05-0137 (Gasket not included)
J&J Cord.



2-05-0115 / C2550-0119

Watkins: Heater Assembly

120V, 1.5KW, 10 1/2"

Flange: 4" x 4"

Use with gasket 2-05-0137

(Gasket not included)

Hot Springs. Nema Cord.



2-00-0118 / B-4200

Watkins Hot Springs Stainless Manifold 11 1/2'

w/ 2 1/2" hose barb uses 4 X 4 Plate

Sold separately:

Heater element item #2-05-0135 or #2-05-0115

Gasket item #2-05-0137



2-05-0133 / 25-1463-430AC

Watkins: Heater Assembly

240V, 2.5KW, 12 1/2"

Flange: 2.5" x 4"

Use with gasket 2-05-0138

(Gasket not included)



2-05-0105 / 25-0483

Flo-thru Heater

110V, 1.0KW, 5"

PS-1

2-05-0145 / 25-0469

Flo-thru Heater

110V, 1.5KW, 5"



2-05-0141 / 25-1480

Vortex / Acura AquaHeat

110/240V, 1.5/5.5KW, 7 1/2"

T-wells: 2 - 1/4"

No Gasket Available



2-05-0143 / 25-34010

Laars Plate (Studs for freeze sensor)

110/220V, 1.5/5.5KW, 10"

T-wells: 1 - 5/16"



HEATERS (continued)

ITEM # / MFG

DESCRIPTION

2-05-0026 / 70-20111

Aquatemp Heater
 110V, 1.5KW, 8"



2-05-0082 / 25-4131

240V, 2.0KW, 7"

2-05-0086

240V, 2.5KW, 9 3/4"

2-05-0069 / 25-4041

110/240V, 1.0/4.0KW, 11 1/2"

2-05-0025 / 25-4034

110/240V, 1.5/5.5KW, 11 1/2"

2-05-0801 / 25-4034ET

110/240V, 1.5 x 5.5KW Tefel Coated



2-05-0092

Gasket Kit For Flo-Thru Heaters/Elements
 Consists of large nuts, small nuts, washers
 and gaskets

2-05-0016 / 563094-001

110V, 1.5KW, 12"
 Thread: 1" NPT = 1-1/4"
 Bolt: 1 1/2"
 T-wells: None



2-05-0019

110V, 1.5KW, 10"
 Thread: 1" NPT = 1-1/4"
 Bolt: 1 3/8"
 T-well: 1 - 5/16"



2-05-0800 / 25-3016

240V, 5.5KW, 12"
 Thread: 1 1/4" NPT = 1-19/32"
 Bolt: 1 3/4"
 T-well: 2 - 3/8" x 6 1/4"

2-05-0018 / 315218000010

110/220V, 1.5/5.5KW, 15 3/4"
 Thread: 1" NPT = 1-1/4"
 Bolt: 1 1/2"
 T-well: None



HEATERS (*continued*)

ITEM # / MFG

DESCRIPTION

2-05-0142 / 25-3010

Screw Plug

110/240V, 1.5/5.5KW, 11 1/4"
Thread: 1" NPT = 1-1/4"
Bolt: 1 1/2"
T-wells: 2 - 5/16"



2-05-0071 / 25-0461

Hairpin

110/220V, 1.5/6.0KW, 10 1/2"
For Economy Heater



2-05-0013 / 25-1465

110V, 1.5KW, 7 1/2"
Flange: 2 5/16" round (6 bolt);
T-wells: 2 - 3/8" x 6 1/4"
(Used with 2-05-0012-B Manifolds)



SD6000-017

Gasket with 6 Screws
Complete heater no longer available.

2-05-0011 / 25-1461

110/220V, 1.5/6.0KW, 10 3/8"
Flange: 2 3/4" round (6 bolt)
T-wells: 2 - 5/16"
(Used with 2-05-0012-A &
2-05-0012-B Manifolds)



SD6000-017

Gasket with 6 Screws

2-05-0072 / 25-3016*

110V, 1.5KW, 7-3/8", 120V
Thread: 1 1/4" NPT = 1-19/32"
Bolt: 1 3/4"
T-wells: (2) - 5/16"



**Limited to stock on hand.*

2-05-0126

Hairpin

110V, 1.5KW, 9 1/4"
Limited to stock on hand



HEATERS (continued)

ITEM # / MFG

DESCRIPTION

2-05-0024 / 876555-002

*110/220V, 1.5/6.0KW, 13"
 Thread: 1 1/4" NPT = 1 19/32
 Bolt: 1 3/4"
 T-wells: 2 - 1/4"



**Limited to stock on hand.*

SD6500-252

110/220V, 1.5/6.0KW, 11"
 Flange: 2 3/4" Round Stainless Plate
 T-wells: 2 - 5/16"



SD6000-017

Gasket with 6 Screws

SD6560-025

110/220V, 1.5/6.0KW, 17"
 Thread: 1 1/4" NPT = 1 19/32
 Bolt: 1 3/4"
 T-wells: 1 - 5/16"



Used in Ramco Evolutions & Dimension One Crystal Pure

Flange: 10 7/8" x 6 3/16" Plate
 T-wells: 2 - 5/16"



2-05-0144A / 25-1586-0002

110/220V, 1.0/4.0KW

2-00-0122*

PVC Housing with heater element & flo-switch
 220V, 4.0KW
 Replacement heater complete for Evolution
 equipment & Sonoma, Dimension One's
 Crystal Pure

Note: 6KW No longer available
 Metal box and cover now available. See page 188.



2-05-0054

*O-ring



4-10-1038

*Housing Only



5-20-0001C

*Flow switch



**Limited to stock on hand.*

HEATERS (continued)

ITEM # / MFG

2-05-0031 / 672-9900

DESCRIPTION

ABS Heater Housing

1 1/2" SPG inlet & outlet

Used By: Spa Builders RR-1 or

RR-2, CRL Electronics R&R,

Premier Verta Pac & Stac Pac & Vita DX



2-05-0114

Used for SBSG RR-C or EP-2 control head



12-0001P

110/220V, 1.5/6KW, 6 1/4"

Flange: 5" x 5"

T-wells: 2 - 5/16"

Notes: Used in SBSG- RR-1, RR-2,

RR-C Controls, Premier, HT-1,

Stac-pak, Verta-paks and Brett Aqualine



2-05-0065

220V, 10KW, 9"

Flange: 5" x 5"

T-wells: 2 - 5/16"



2-00-0030

11KW Heater Complete with

S/S Housing #2-05-0079

2-05-0079 / 24-02100

S/S Heater Housing, 10"

S/S heater housing w/ 1 1/2" slip unions,

5" x 5" square flange, Use heater #2-05-0065



2-05-0080

2-05-0081

Fiber Gasket

O-ring



2-05-0099 / 25-2477

Baker Hydro

220V, 3KW + 3KW = 6KW, 10"

Flange: 4"x4" Stainless Plate

T-wells: None

Note: 2 Elements



2-05-0123 / SD6500-216 /
25-24042-A

Sundance Hi Flo w/ Cord - RMF

110/220V, 1.5/6.0KW

Flange: 5" x 12" Stainless Plate

T-wells: 1 - 5/16"



Balboa™ HEATERS

ITEM #	MFG #	DESCRIPTION	INTERCHANGEABILITY
2-00-0035	50096	Heater Complete: 5.5KW with Pressure Switch; No Tailpieces	50080 Same Heater without Pressure Switch 
2-00-0036	58010	Heater Complete: 5.5KW 825 Incoloy Suv & M-7 With Sensors	58016 Same Heater without Sensors 58000 & 58010 Will Also Interchange 
2-00-0037	58000	Heater Complete: 5.5KW Suv & M-7 With Sensors	58016 Same Heater without Sensors 58000 & 58010 Will Also Interchange 
2-00-0038	58019	Heater Complete: 1.4KW / 5.5KW with Pressure Switch & Sensor 1000LE/ 2000LE/2000 Value	58027 Same Heater without Pressure Switch & Sensor 
2-00-0039	58027	Heater Complete: 1.4KW / 5.5KW without Pressure Switch & Sensor 1000LE/ 2000LE/2000 Value	58019 Same Heater with Pressure Switch & Sensor Photo Unavailable
2-00-0045	50081	Heater Complete: 4KW without Pressure Switch Lite Leader	50067 Same Heater without Pressure Switch 

Removal of Element Voids Warranty

2-00-0043	50150	Heater for H136 Jacuzzi	
2-00-0139	53349	Heater Assembly 4.0KW w/ Sensor & 1.25 PSI	Photo Unavailable

HEATERS (continued)

ITEM # / MFG#	DESCRIPTION
2-00-0046 / 58001	Heater 4.0KW 240V 180 DEG
2-00-0047 / 50075	Heater 1.0KW Low Profile Press Switch / 8.5"
2-00-0049 / 58083	Heater Assembly 5.5KW with Sensor



Photo
Unavailable

HYDROQUIP™ HEATERS

ITEM # / MFG #	DESCRIPTION
2-05-0010 / 48-0014	Heater Housing Kit, 500/4000 Includes: (1) tail piece, (1) o-ring, (1) adapter fitting
2-05-0015 / 48-0057	Heater Housing Kit, 300/AP-2 Includes: (1) tail piece, (1) o-ring, (1) adapter fitting
2-00-0136 / 26-0071	Heater Tube With 5.5KW Element
2-00-0140 / 26-0017A	Heater Assy 11KW U-Style



REMOTE HEATER SYSTEMS

ITEM # / MFG#	DESCRIPTION
2-00-0135 / RSH-5.5	Heater RHS 5.5KW 240V Stand Alone
2-00-0138 / RSH-11.0	Heater RHS 11KW 240V Stand Alone

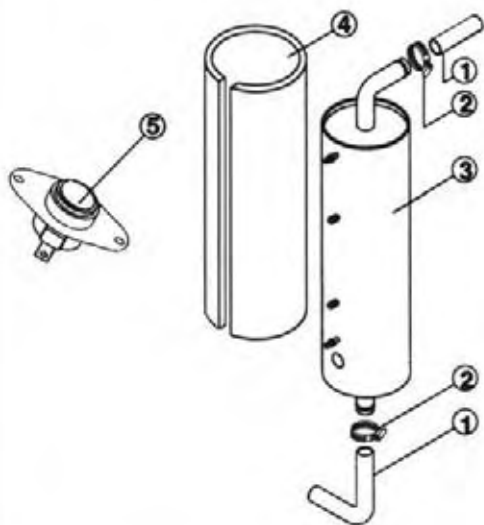


Sundance Spas HEATERS

Bypass Heater

USA / Canada (1995 - 1/14/2000)

Note: 1997 - 1999 Tango uses 6500-056 Heater Assembly (see page 40)

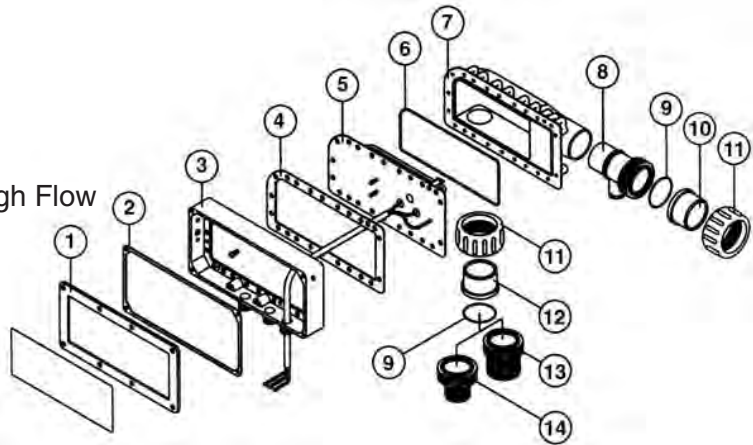


1. SD6540-744, 0.75" Clear Hose
2. SD6570-099, Metal Hose Clamp
3. SD6500-301, Heater
4. SD6560-012, Foam Wrap
(not included with heater,
purchased
separately)
5. SD6000-093, Hi-limit Disc.
(Use item #2-05-0110)

Sundance Spas PLASTIC HEATERS

USA / Canada (1987 - 1990)

1. SD6560-042, Cover
2. SD6560-045, Box Gasket
3. SD6560-041, Connector Box
4. SD6560-046, Gasket
5. 2-05-0123 / SD6500-216, Element, High Flow
6. SD6560-043, O-Ring Element
7. SD6560-040, Water Container
8. SD6560-032, 2" Threaded Union
9. SD6560-044, O-Ring, Union Fitting
10. SD6560-035, 2" Slip Union Fitting
11. SD6560-030, Union Nut
12. SD6560-031, 1.5" Slip Union Fitting
13. SD6560-034, 2" Threaded Union (605, 701, 724 Systems)
14. SD6560-027, 1.5" Threaded Union (605, 624 Systems)



Please note: For Complete Housing Assembly, Order Part Numbers 7, 8, 11 and 12.

The plastic high-flow heater assembly has been used on the following systems:

- A. 1989 - 1990 605 Systems
- B. All 1987 - 1990 624 Systems
- C. 1989 - 1990 701 Systems
- D. 1989 - 1990 724 Systems

USA / Canada / Export (2000+)

All 2005+ Sundance 880/850 USA/Canada 60 Hz Models

1. SD6500-310, Smart Heater Assembly, 5.5 kW

All 2000-2004 Sundance 850/Portofino USA/Canada 60 Hz Models

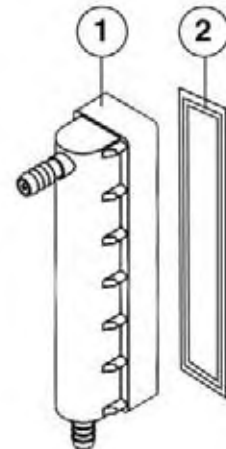
1. SD6500-310, Smart Heater Assembly, 5.5 kW
2. SD6560-049, Smart Heater Gasket

All 2001+ Sundance Export 50 Hz Models (Except Maxxus)

1. SD6500-315, Smart Heater Assembly, 2.7 kW
2. SD6560-049, Smart Heater Gasket

2001+ Sundance Export 50 Hz Maxxus Models

1. SD6500-316, Smart Heater Assembly, 5.5 kW
2. SD6560-049, Smart Heater Gasket

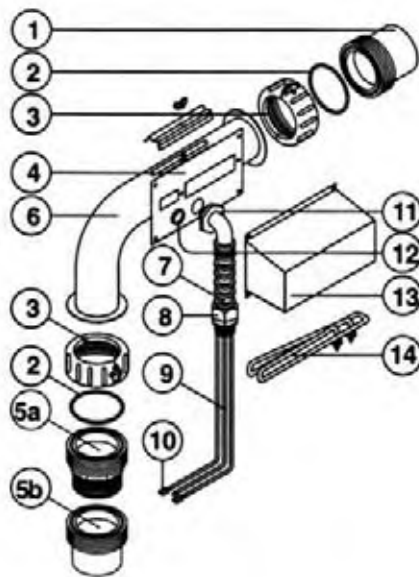


Sundance Spas HEATERS (continued)

Stainless Steel Heaters

USA / Canada Portables (1990 - 1994), USA / Canada Ingrounds (1990 - 1993)

Compatible with:
 A. Late 1990 724
 B. 1991 - 1994
 600, 800

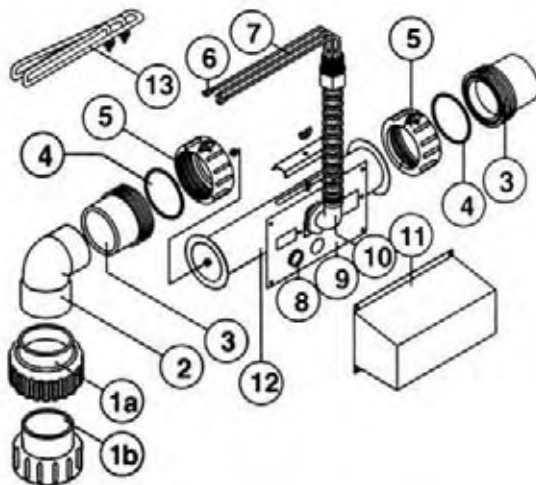


Curved High-Flow Heater Parts

1. 6560-005, 2" Slip Tailpiece
2. 6560-044, O-Ring
3. 6000-176, 2" Split Nut
4. 6500-230, Plate
- 5A. 6560-006, Tailpiece, 2" MIPT
- 5B. 6560-009, Tailpiece, 1.5" Slip
6. 6500-214, Manifold, Element, and Split Nuts (2)
7. 6560-198, Conduit
8. 6560-625, Connector
9. 6560-215, Heater Wire (Green)
10. 6560-216, Heater Wire (Black)
11. 6560-620, Elbow
12. 6560-200, Grommet
13. 6500-235, Box
14. 6000-106, Element Only, 1.5 kW/ 5.5 kW (will not work on element that is welded in place)

USA / Canada (1991 - 1996)

Compatible with:
 A. 400 Systems
 B. Suncoast
 C. 1994 - 1996 Montego/Tango



Straight High-Flow Heater Parts

- 1A. 6560-007, Hayward Pump Union Assembly
- 1B. 6560-204, Vico Pump Union Assembly
- 2A. 6540-070, 1.5" Street Elbow (Hayward Pump)
- 2B. 6540-190, 2" Street Elbow (Vico Pump)
3. 6560-009, Tailpiece, 1.5" Slip
4. 6560-044 O-Ring
5. 6000-176 2" Split Nut
6. 6560-216 Heater Wire (Black)
7. 6560-215 Heater Wire (Green)
8. 6560-200 Grommet
9. 6500-230 Plate
10. 6560-620 Elbow
11. 6500-235 Box
12. 6500-211 Manifold, Element, and Split Nuts (2)
13. 6000-106 Element Only, 1.5 kW/5.5 kW (will not work on element that is welded in place)

All item #'s above include SD for Allied.

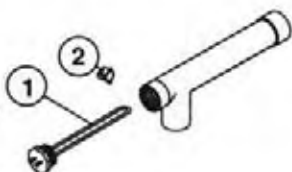
Sundance Spas HEATERS (continued)

Stainless Steel Heaters

USA / Canada Portable Spas Heaters

800 Series Blower Heater (1991 - 1992)

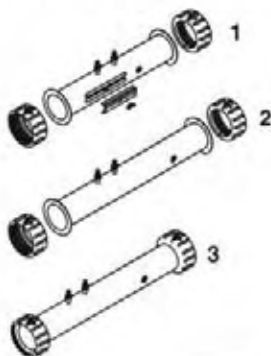
1. 6500-208 Element
2. 6600-090 High-Limit Sensor



Suntub Heaters (1994 - 4/98)

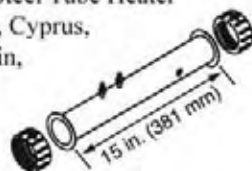
(Use #2-00-0076)

1. 6500-052 1 kW, 120VAC
2. 6500-057 4 kW, 240VAC
3. 6500-056 1kW/4kW, 4/96 - 4/98 Suntub (also 1997 - 1999 Tango)

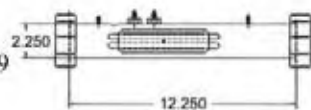


Sweetwater Heaters

6000-156, 5.5 kW Stainless Steel Tube Heater (Fits 2000-2002 Aruba, Bahia, Cyprus, Palermo, and 1998-1999 Austin, Hartford, Madison, Olympia, and Telluride)



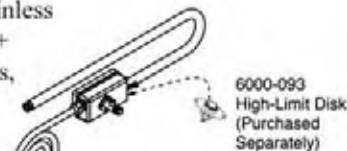
6000-155, 4 kW, Stainless Steel Tube Heater, (Fits 1998 - 1999 Cheyenne, Aspen, and Vail)



USA / Canada Portable Spa Heaters

Portofino / Sweetwater Heaters

6500-063, 4 kW, Stainless Steel Tube (Fits 2004+ Metro, 2003+ Lagunas, And 2000+ Caprio, Tango, Solo)



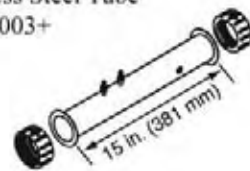
6500-402, 5.5kW Stainless Steel Tube (Fits 2003+ Palermo, Bahia, and Cayman)



6540-034, 0.125" MPT x 0.375" Barb Adapter, 0.60" I.D. Hole (2000+ Tango Freeze Protection Bypass Line Only)

Sweetwater / Del Sol Heaters

6000-338, 1kW/4kW, Stainless Steel Tube Heater (Fits 2001+ Bali and 2003+ Redondo and Hermosa)



6000-106, Replacement Heater Element for 5.5 kW, Stainless Steel Tube Heater (Fits 2000-2002 Aruba, Bahia, Cyprus, Palermo, and 1998 - 1999 Austin, Hartford, Madison, Olympia, and Telluride)

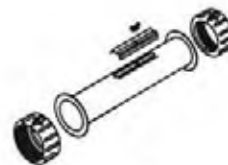


Inground Spa Heaters

6500-214, Curved Heater Assembly, CSA Approved (Fits 1991-1996 Inground Spas)



6500-407, Straight Heater Assembly, Stainless Steel, CSA Approved (Fits 2004+ Inground Spas)



All item #'s above include SD for Allied.

Sundance Spas HEATERS (continued)

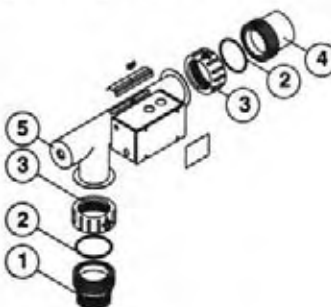
Heater Retrofits / Accessories

USA / Canada

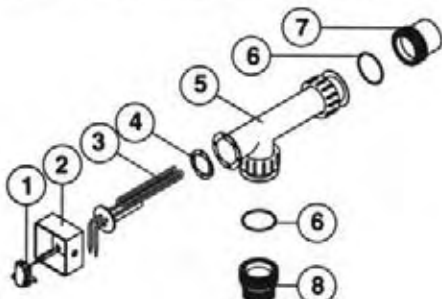
High-Flow Retrofit

Stainless Steel Retrofit compatible with:
 605, 701, and 724 Plastic High-Flow Systems Only

1. 6560-006, 2" Tailpiece
2. 6560-044, O-Ring
3. 6000-176, 2" Split Nut
4. 6560-005, 2" Slip Tailpiece
5. 6500-495, Heater Manifold with Box

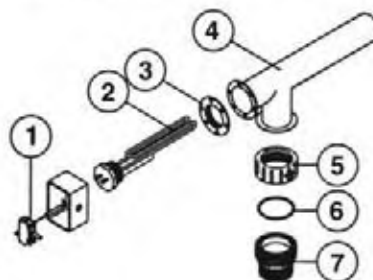


1986-1989 603/604 And 1989 605 Heater Parts



1. 6560-235, Hi-Limit Sensor (Use #2-00-0056)
2. 6560-659, Box
3. 6500-252, Bolt-on Element, 1.5kW/6kW
4. 6000-017, Element Gasket
5. 6000-002, Manifold for Bolt-on Element
6. 6000-001, O-Ring
7. 6560-003, Slip Tailpiece
8. 6560-004, Tailpiece

1984 601 / 1985 602 Heater Parts



1. 6560-230, 602 Hi-Limit Sensor
2. 6560-025, Element (Screw In), 1.5kW/6kW
3. 6000-180, Brass Adapter (Use #2-05-0014-B)
4. 6540-775, Manifold
5. 6000-175, 1.5" Split Nut
6. 6000-001, O-Ring
7. 6560-002, Tailpiece

602 1.5" Union Assembly



1. 6560-003
2. 6000-175
3. 6000-001
4. 6560-002

~~6560-874~~ 5-20-0013



Pressure Switch for
 All Systems

6560-440



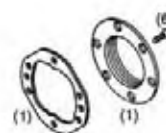
Freeze Sensor for
 301-605, 505, 624, & 1991
 600 Suncoast Systems

6000-017



Gasket for Bolt-on
 Element

6000-180



Brass Adapter Kit for
 6560-025 Threaded
 Element

All item #'s above include SD for Allied.

HEATER HOUSINGS

ITEM

DESCRIPTION

2-05-0012-A (*Obsolete*)

Inline Heater Housing
17", Round flange S/S housing,
1 1/2" Slip unions
Used with heater element
2-05-0011 or 2-05-0013



2-05-0012-B

Inline Heater Housing
13", Round flange S/S housing, 1 1/2" Slip
unions Used with heater element
2-05-0011 or 2-05-0013

2-05-0014-A

Flange Adapter Kit
6 bolt flange adapter kit turns
heater housing 2-05-0012-A & B
into 1" FIPT, for use with heater
elements with a 1" MIPT threads



2-05-0014-B

Flange Adapter Kit
6 bolt flange adapter kit turns
heater housing 2-05-0012-A & B
into 1 1/4" FIPT, for use with
heater elements with a 1 1/4" MIPT threads



4-10-1028 / 672-9910*

Plastic Heater Housing
SLP x SLP Blk WW
*Limited to stock on hand.



HEATER ACCESSORIES

ITEM

DESCRIPTION

2-05-0038-A

Split Nut
 Split nut for use on 1 1/2" heater housings



Note: Not for pumps. See page 113-114.

2-05-0039-B

Split Nut
 Split nut for use on 2" heater housings



Note: Not for pumps. See page 113-114.

2-05-0038-B

Tailpiece
 1 1/2" slip pvc tailpiece
 Use with 2-05-0038-A split nut



1-05-0141

O-ring

2-05-0039D

Tail Piece
 2" thrd x 1-1/2" slip pvc tailpiece
 Use with 2-05-0039-B split nut



2-05-0042

O-ring

09-0009

1/8" NPT Nylon Plug



2-05-0039-C

Tail Piece
 2" slip pvc tailpiece with 1.25" tail length
 Use with 2-05-0039-B split nut



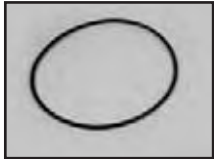
2-05-0042

O-ring

42-0062

Tail Piece
 2" Slip PVC tailpiece with .75 tail length
 Use with 2-05-0039-B split nut and
 2-05-0042 O-ring.

HEATER GASKETS & O-RINGS

ITEM #	DESCRIPTION	
60-0001	O-ring 4" O-ring for 12-0001P Element Included in 60-0002K	
181001	1/2" Gasket used as seal mounting bolt to current collector (item #38-0123) Gasket also included (item #60-0002K)	
2-05-0081	O-ring Used to seal heater element to housing (2-05-0079)	
2-05-0080	Flat Gasket 5" x 5" Flat Gasket used with 2-05-0081 O-ring to seal heater to housing	
2-05-0054	O-ring Approximately 9" Diameter Replaces the O-ring used to seal heater element (2-05-0144) and heater housing (4-10-1038) (Evolution & Crystal Pure paks)	
2-05-0089	Gasket (Plastic) Used to seal the current collector hole in square flange heaters 2-05-0029 (use SS nut & bolt)	
2-05-0053	Gasket 3" Flat	

HEATER GASKETS & O-RINGS

ITEM # DESCRIPTION

1-05-0141 O-ring
 1 1/2" O-ring for 2-05-0038-B tailpiece



2-05-0095 Gasket Flat
 Replaces O-rings on 2" heater unions



2-05-0155 **Waterway (Clear)**
 42-0067 **Aquatemp (White)**

O-ring / Gasket
 Replaces O-rings or Gaskets on 1 1/2" heater unions



2-05-0096 Gasket Flat
 Replaces O-rings on 1 1/2" heater unions



2-05-0101 **Waterway (Clear)**
 2-05-5007 **Aquatemp (White)**

O-ring / Gasket
 Replaces O-rings or Gaskets on 2" heater unions



2-05-0042 O-ring
 2" O-ring for both 2-05-0039-C & D
 tailpieces



Waterway Pump Union Components

Item # / MFG # Description
 2-05-0093 / 711-4020 Gasket 1/4"TH 2"FLT Heater/ Pump



THERMOSTATS



ITEM# / MFG#	DESCRIPTION	CAPILLARY
2-05-0154 / 275-2950-00	6" CAP; 5/16" x 2.50" Bulb; SPST	Non-Insulated capillary
2-05-0001 / 275-3183-00	48" CAP; 5/16" x 4.07" Bulb; SPST	Non-Insulated capillary
2-05-0003 / 275-3124-00	36" CAP; 1/4" x 3.70" Bulb; SPST (shown)	Non-Insulated capillary
2-05-0005 / 275-3127-01	36" CAP; 5/16" x 3.40" Bulb; SPST	Insulated capillary
2-05-0052 / 275-3142-00	18" CAP; 5/16" x 2.50" Bulb; SPST	Insulated capillary
2-05-0149 / 275-3123-01	12" CAP; 5/16" x 3.70" Bulb EM for Brett	Non-Insulated capillary
2-05-0055 / 275-3123-00	12" CAP; 1/4" x 3.40" Bulb; SPST Sundance	Non-Insulated capillary
2-05-0130 / 275-3263-00	24" CAP; 5/16" x 3.00" Bulb; SPST for Spa Builders AP Packs	Insulated capillary
3-05-0001 / 275-3136-00	48" CAP; 5/16" x 6.00" Low Voltage for Ramco	Non-Insulated capillary
450000 / 275-2720-00	60" CAP; 1/4" x 3.50" Bulb for Mechanical Aquaset; 3 Terminals	Non-Insulated capillary

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MECHANICAL THERMOSTAT / HI-LIMIT CROSS REFERENCE CHART

ALLIED #	COTHERM #	EATON #	Bulb Length	Bulb Diameter	Cap. Length	Shaft Position	Usability	Capillary
	THERMOSTATS							
	BOLD DENOTES MANUFACTURER STOCKED							
2-05-0154	N/A	275-2950-00	2.50"	5/16 (8mm)	6" (152 mm)			Non-Insulated
2-05-0055	GTLU0025	275-3123-00	3.40"	1/4 (6mm)	12" (305mm)		BRETT	Non-Insulated
2-05-0149	GTLU0024	275-3123-01	3.70"	5/16 (8mm)	12" (305mm)		BRETT	Non-Insulated
34-0121A	GTLU0024	275-3123-01	3.50"	5/16 (8mm)	12" (305mm)		BRETT	Insulated
2-05-0130	GTLU0016	275-3263-00	3.00"	5/16 (8mm)	24" (610mm)		SBSG	Insulated
2-05-0003	GTLU0031	275-3124-00	3.70"	1/4 (6mm)	36" (914mm)			Non-Insulated
2-05-0005	GTLU3010	275-3127-00	3.40"	5/16 (8mm)	36" (914mm)			Insulated
2-05-0052	GTLU0034	275-3142-01	2.50"	5/16 (8mm)	20" (914mm)			Insulated
3-05-0001		275-3136-00	6.00"	5/16 (8mm)	5/16 (8mm)		RAMCO LOW VOLTAGE	Non-Insulated
2-05-0001	GTLU0026	275-3183-00		5/16 (8mm)	5/16 (8mm)			Non-Insulated
450000	GTLU3009	275-2720-00	3.50"	1/4 (6mm)	60" (152mm)			Non-Insulated
	HI LIMITS							
2-05-0008	GTLUR021	275-2662-00 / 275-3287-00	3.36"	1/4 (6mm)	12" (305mm)	- N/A -		Non-Insulated
2-05-0078	GTLUR023	275-2663-00	3.36"	1/4 (6mm)	36" (914mm)	- N/A -		Insulated
2-05-0159	N/A	275-2951-00	3.00"	5/16 (8mm)	6" (152mm)	- N/A -		Non-Insulated
2-05-0056	N/A	275-3290-00 / SD6560-235	2.50"	5/16 (8mm)	18" (457mm)	- N/A -		Insulated
2-05-0160	N/A	275-3275-00	3.0"	5/16 (8mm)	24" (610mm)	- N/A -		Insulated
2-05-0158	GTLUR020	275-3254-00	3.13"	1/4 (6mm)	6" (152mm)	- N/A -		Non-Insulated

HI-LIMITS

ITEM#

34-0199 / 355-31408

DESCRIPTION

8" CAP, 5/16" x 2.50" Bulb
Double Pole, Non-insulated (Stemco)



34-0146A / GTLUR019

12" CAP x 5/16" x 3.50"
Cotherm Hi Limit, Insulated
No longer available. Use item #2-05-0008.



2-05-0151

Boot, Hi Limit Cover



Note: Before changing a Hi Limit, check your filter for any dirt or residue.

ITEM# / MFG#

DESCRIPTION

CAPILLARY

2-05-0158 / 275-3254-00

6" CAP; 1/4" x 3.13" Bulb; SPST

Non-Insulated capillary

2-05-0159 / 275-2951-00

6" CAP; 5/16" x 3.0" Bulb; SPST

Non-Insulated capillary

2-05-0008 / 275-2662-00
/ 275-3287-00

12" CAP; 1/4" x 3.36" Bulb; SPST

Non-Insulated capillary

2-05-0056 / 275-3290-00
/ SD6560-235

18" CAP; 5/16" x 2.50" Bulb; SPST

Insulated capillary

2-05-0160 / 275-3275-00

24" CAP; 5/16" x 3.0" Bulb; SPST

Insulated capillary

2-05-0078 / 275-2663-02

36" CAP; 1/4" x 3.36" Bulb; SPST

Insulated capillary



2-05-5005

Hi Limit Snap-Disc; No CAP; DPST
(Replaced item #2-05-5003)



2-05-0110 / SD6000-093

Hi Limit
Thermal Fuse; No CAP; SPST



ITEM#

5-60-6026 / 48-0092-S

DESCRIPTION

Hydro Quip

Hi-Limit Kit, Manual with Auto Reset





TEMPERATURE SENSORS

ITEM#	DESCRIPTION
733120-0	Digital 20' Temp Saddle Style for Lenovator



TEMPERATURE SENSORS

ITEM#	DESCRIPTION
5-60-1122	LX-10 or LX-15 Set - Temp 90" / Hi Limit 14" (Not for Sundance / Sweetwater / Jacuzzi LX-10 / LX-15 systems. See page 149.)



LX-15 Outdoor Units

5-60-1134	LX-15 Set 25' Temp / 13' Hi Limit	
5-60-1142	LX-15 OD Temp only 50' cable w/o curled finger connector or plug	
5-60-1143	LX-15 OD Hi Limit only 10' cable w/o curled finger connector or plug	

5-60-1120	LX-20, LX-25 and LX-30 Systems Temp/Hi Limit (shown right)
5-60-1163	LX-20 / 25 / 30 Sensor Test Plug
5-60-1166	LX-05 Temp / Hi Limit 8'
5-60-1170	LX-35 Temp 8' / Hi Limit 24"



LX-15 Tools

5-60-1161	LX-10 / LX-15 Sensor Test Plug
5-60-1162	LX-10 / LX-15 Flo Test Plug



ITEM#	DESCRIPTION
5-60-1123	LX-10/ LX-15 Pressure Switch Cable



DIGITAL TEMPERATURE / HI-LIMIT SENSORS

ITEM#	DESCRIPTION
38-0400A	Digital 5' Temp for BL-45, 46, 50, 60, 70, 80
38-0400B	Digital 10' Temp for BL-45, 46, 50, 60, 70, 80



5-60-5005 / 38-0399	15" Hi-Limit 1/4" x 2.0" Bulb; Brett Digital
---------------------	--



990160-000	WTS Digital 20' Temp Saddle Style for BL-40
------------	---



TEMPERATURE VS. RESISTANCE CHART

SPA BUILDERS / SUNDANCE			BRETT (Measured in Kohms)							
TEMP	RES		TEMP	RES		TEMP	RES		TEMP	RES
59	48840		32	32.7		57	16.5		82	8.82
60.8	46680		33	31.8		58	16		83	8.61
62.6	44610		34	30.9		59	15.6		84	8.41
64.4	42630		35	30		60	15.2		85	8.22
66.2	40770		36	29.2		61	14.8		86	8.03
68	39000		37	28.4		62	14.5		87	7.84
69.8	37290		38	27.6		63	14.1		88	7.66
71.6	35700		39	26.8		64	13.7		89	7.48
73.4	34170		40	26.1		65	13.4		90	7.31
75.2	32700		41	25.4		66	13.1		91	7.14
77	30000		42	24.7		67	12.7		92	6.98
78.8	28740		43	24		68	12.4		93	6.82
80.6	27540		44	23.3		69	12.1		94	6.67
82.4	26400		45	22.7		70	11.8		95	6.52
84.2	25311		46	22.1		71	11.5		96	6.37
86	24270		47	21.5		72	11.2		97	6.23
87.8	23280		48	20.9		73	11		98	6.09
89.6	22320		49	20.4		74	10.7		99	5.96
91.4	21420		50	19.8		75	10.4		100	5.83
93.2	20571		51	19.3		76	10.2		101	5.7
95	19740		52	18.8		77	9.95		102	5.57
96.8	18960		53	18.3		78	9.71		103	5.45
98.6	18210		54	17.8		79	9.48		104	5.33
100.1	17490		55	17.3		80	9.25		105	5.22
102.2	16800		56	16.9		81	103		106	5.1
104	16149									
105.8	15519									
107.6	14919									
109.4	14349									
111.2	13800									
113	13281									



DIGITAL SENSORS

HI-LIMIT SENSORS

ITEM# / MFG#	DESCRIPTION	
5-60-6001* / 9920-400705	Hi-limit 22"	MSPA-1-2-4-TSPA LINE
5-60-6002* / 9920-400704	Hi-limit 36"	MSPA-1-2-4-TSPA LINE
5-60-6003 / 9920-400490	Hi-limit 24"	SSPA-SC-CF-MSPA-MP
5-60-6004* / 9920-400435	Hi-limit 30"	SSPA-SC-CF-MSPA-MP
5-60-6005* / 9920-400516	Hi-limit 36"	SSPA-SC-CF-MSPA-MP
5-60-6006* / 9920-400446	Hi-limit 48"	SSPA-SC-CF-MSPA-MP
5-60-6007 / 9920-400523	Hi-limit 72"	SSPA-SC-CF-MSPA-MP
5-60-6008 / 9920-400122	Hi-limit 14"	MSPA-1-2-4-TSPA LINE
5-60-6010* / 9920-400431	Hi-limit 30"	MSPA-1-2-4-TSPA LINE
5-60-6011 / 9920-400183	Hi-limit 72"	MSPA-1-2-4-TSPA LINE
5-60-6012* / 9920-400684	Hi-limit 76"	MSPA-1-2-4-TSPA LINE



5-60-7264 / 5-60-6000 / 5-60-7191
 M Class Poron Tape Hi-limit

5-60-7265 / 9920-100317 S Class Poron Tape HiLimit

***Limited to stock on hand.**

Technical Notes: MSPA-1-2-4 & TSPA Hi-limit Sensors have a blind 4 plug. SSPA-SC-CF-MP & MSPA-MP have a 2 pin plug (JST)

ITEM# / MFG#	DESCRIPTION
5-60-6015* / 9920-400118	Cable + Double Probe Temp Minipack Tmp-6 Temp Hi Limit Sensor Combo
5-60-6016 / 9920-400146	Cable + Single Probe Temp Minipack Tmp-7 Temp Sensor



***Limited to stock on hand.**

TEMPERATURE SENSORS

1/4" Diameter
 See [page 149](#) for thermowell.



ITEM# / MFG#	DESCRIPTION	
5-60-6017 / 9920-400245	Temp Sensor 25'	MSPA-1-2-4-TSPA LINE
5-60-6018 / 9920-400125	Temp Sensor 10'	MSPA-1-2-4-TSPA LINE (Also replaces item #5-60-7013)
5-60-6019 / 9920-400262	Temp Sensor 10'	SSPA-SC-CF-MSPA-MP LINE
5-60-6020 / 9920-400720	Temp Sensor 25'	SSPA-SC-CF-MSPA-MP LINE
5-60-6021* / 9920-400723	Temp Sensor 6'	SSPA-SC-CF-MSPA-MP LINE

***Limited to stock on hand.**

Technical Notes: MSPA-1-2-4 & TSPA temperature sensors have a 4 position plug with a "Blind 4". SSPA-SC-CF-MP & MSPA-MP have a 4 position plug with a "Blind 3".



TEMPERATURE SENSORS

ITEM# / MFG#
5-60-8001 / 30337

DESCRIPTION
Digital Sensor Combo with
96" Temp Sensor 30294 &
31" Hi Limit 30298



5-60-8002 / 30298

Digital Sensor, 31" Hi Limit



5-60-8003 / 30326
5-60-8004 / 30327
5-60-8005 / 30294

Temperature Digital, 50'
Temperature Digital, 25'
Temperature Digital, 96"



5-60-8007 / 32016

Temperature Sensor Assy for M7 & Value Systems

Technical Recommendation:
Replace sensors as a set of 2 pieces.



5-60-8008 / 30352

Temperature Sensor Assy for Value Systems & 2000LE



5-60-8009 / 52560

Temperature Sensor Mount for M7 Heat



5-60-8006 / 50111

Digital, 8' (Used on all Sundance 600™ Series Systems)



HYDROQUIP™ SENSORS

ITEM# / MFG#
5-50-6012 / 34-0199C

DESCRIPTION
Pressure Switch Leads PCB SSPA



Sundance Spas TEMPERATURE & HI LIMIT SENSORS

TEMPERATURE SENSORS

ITEM#	DESCRIPTION
SD6600-167	Box end connectors for all 400, 600, 600S, 700, 750, 800, 850, 1992 Suncoast, Suntub SV/DV. 12' replaces 6600-105, 6600-134, 6600-138
SD6600-166	Curled finger connectors 701, 724, LX10, LX15, Sweetwater. 12' replaces 6600-166, 6600-071, 6600-104, 6600-070
SD6560-423	White Plug Connector for 505, 601 - 605, and 624 Systems Only (Do not use this sensor on any system listed above SD6600-070 or SD6600-167) Cannot be checked by resistance test.



In-Ground Hot Tubs

ITEM# / MFG#	DESCRIPTION
SD6600-169	Temp sensor 50' shell mounted
SD6600-122	Steel Bullet temp sensor with curled finger connector for 701,724. Replaced by 5-60-8005 (remove plug connector)
SD6600-106	Steel Bullet temp sensor with curled finger connector for drywell EP800). Replaced by #5-60-8005



HI LIMIT SENSORS

ITEM#	DESCRIPTION
5-60-1129	Hi-limit sensor, 18" LX10, LX15, Sweetwater, 701-724 1998 Solo. (Curled finger)
SD6600-068	6 ft w/ curled finger connectors for all 701,724,Portofino,98+ Sweetwater,Solo, LX10/15



SD6600-110	7 ft w/ box end connectors for all 400, 600, 600s, 700, 750,800, 850, 1992 Suncoast, Suntub SV/DV. Replaces 6600-123,6600-168,6600-062,6600-128
------------	---



SD6600-168	22" with 6660-055 14 pin plug
------------	-------------------------------

Sundance Spas SENSORS

TEMPERATURE & HI LIMIT SENSORS

ITEM# / MFG#	DESCRIPTION
SD6000-021	701-724 Obsolete Use SD6600-166, SD6600-068 & SD6660-053



2-05-0110 / 6000-093	Sundance Disk Hi-Limit Thermal Fuse
----------------------	--



SD6660-055	14 pin sensor harness connector
------------	---------------------------------



SD6660-060	Box end connector pin (fits 6660-055 connector above - not to scale)
------------	---



SD6660-165	22 AWG, 2-conductor, shielded twisted pair cable; used for flow switches sensors, etc. (sold by the foot)
------------	--



SD6660-053	4 pin sensor harness connector All 850E / Portofino and 780 / Sweetwater and 701/724 Temperature Sensors
------------	--



SD6540-228	Sensor O-ring, All Systems
------------	----------------------------



PRESSURE SWITCH CABLE

ITEM#	DESCRIPTION
SD6600-069	Portofino Flow / Pressure Switch Harness 7.5' with curled finger connectors; Replaces 6600-141 (15")
SD6600-141	Sweetwater Pressure Switch Harness, 15" LX-10/ LX-15 Series (with Curled Finger Connectors)



UNITED SPAS TEMPERATURE SENSORS

ITEM#	DESCRIPTION
5-60-8012 / EL123	Temperature Sensor



THERMOSTAT KNOBS

ITEM#	DESCRIPTION
120570	Knob Micro Topside
030030A	BL-C (Brett)
790250-0	BL-S, BL-M (Brett)
120574	Knob Cotherm
15-0005K	Knob Cotherm
2-05-0131	Knob
3-05-0003	Knob (Ramco) - Black
3-05-0003G	Knob (Ramco) - Gray



Photo can be
found on [page 53](#).



THERMOWELLS

Nickel plated drywell, Length: 6 1/2" x 1/2", Mounting: 1/2" MIPT

ITEM#	DESCRIPTION
4-30-0001	Thermowell ST262
4-30-0002	Thermowell: ST262NGRS Grease Filled



ITEM# / MFG #	DESCRIPTION
4-30-0010 / 400-5580	Thermowell (same as item #42-0032) Mounting: 1 1/2" S x S without bleeder
4-30-0012 / 400-6040	Thermowell, Plastic drywell Mounting: 2" S x SPG x 3/8" bleeder
4-30-0015* / 400-6031	Thermowell: 90 Mounting: 2" SX 2" SPG X 1" S x 3/8" bleeder *Limited to stock on hand.



Thermowell, Plastic Drywell, Mounting: 1/2" MIPT

ITEM#	DESCRIPTION
4-30-0020	3 1/2" x 1/4"



ITEM#	DESCRIPTION
4-30-0007	Thermowell, Stainless steel drywell Length: 4 1/2" x 5/16" Mounting: 1/2" MIPT
4-30-5001	Thermowell Length: SS 6 x 3/8 MT Mounting: 1/2" MIPT



THRU-WALL / DRYWELL ASSEMBLIES

IN-LINE DRYWELL ASSEMBLY (*Fits 5/16" x 4" Bulb*)

"Designed To Provide 'True' Water Temperature"

•Offering both In-Line and Thru-wall Drywell Fittings

•Thermostat sensor can be placed as close to spa water as possible providing "true" water temperature.

ITEM#	DESCRIPTION
990165-000	Drywell Assembly - SS Stainless steel well with grommet

990180-000	Drywell Assembly - PL Plastic well with grommet 4 1/2" 5/16"
------------	--



ITEM# / MFG #	DESCRIPTION
4-30-0011 / 42-0040	Thermowell, Plastic drywell (same as item #42-0040) Length: 3" x 1/4" Mounting: 1 1/8" through wall Used with SBSG LX Series sensors



ITEM#	DESCRIPTION
4-30-0027 / 30388WHT	Temperature Sensor Mount Thru-Wall Fits all 3/8" diameter temperature sensors. Designed to be mounted directly into the spa wall.



THRU-WALL DRYWELL ASSEMBLY (*Fits 5/16" x 2" Bulb*)

ITEM#	DESCRIPTION
990408-003*	Thru Wall / Drywell Ftg (Silver Grey)

****Limited to stock on hand***



THRU-WALL / DRYWELL ASSEMBLIES *(continued)*

THRU-WALL "LITE LINE" *(Fits 5/16" x 2" Bulb)*

ITEM#	DESCRIPTION
990451-000	Thru Wall "Lite Line" Ftg (White) - Shown Right
990458-000	Thru Wall "Lite Line" Ftg (Silver Grey)

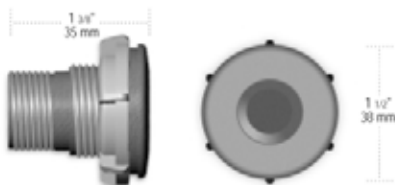


THERMOWELLS

ITEM# / MFG#	DESCRIPTION
4-30-7001 / 9920-100163	Thermowell for 10mm Sensor



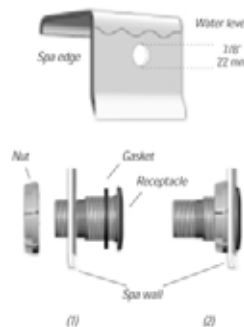
DIMENSIONS



INSTALLING THE TEMPERATURE PROBE HOLDER

The probe holder should be installed below water level and be easily accessible.

- 1- Select an appropriate location for the temperature probe holder.
- 2- Drill a 7/8" (22 mm) diameter hole in the spa wall.
- 3- Assemble and install the holder to spa wall as shown. Hand tighten nut by turning counter-clockwise (should be tight enough to prevent any water leakage).



DESCRIPTION

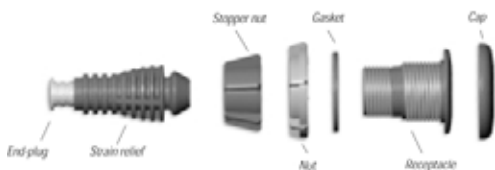
Gecko's temperature probe holder has been specially designed to securely position a temperature probe, measuring 3/8" (10 mm) in diameter and 2" (51 mm) in length, to the spa side.

Easy to install and highly resistant, Gecko's probe holder is made of quality clear plastic and comes with a strain relief and gasket (rubber bushing) to ensure accurate temperature readings.

A choice of three cap colors is available: gray, black and white.

Attention to design detail reflects Gecko's commitment to excellence, quality and reliability in all our products.

Please note that probe holder must be foamed over the rubber strain relief or properly insulated from temperature interference to prevent false readings of water temperature.

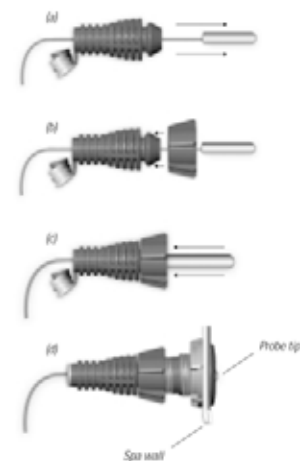


INSTALLING THE TEMPERATURE PROBE

- 1- Insert probe into small end of strain relief and push completely through to other side. (a)
- 2- Force the stopper nut over the end of the strain relief so that it fits snugly. (b)
- 3- Insert the flat edge of probe into the strain relief. (c)
- 4- Insert probe assembly into the receptacle already installed on the spa wall and hand tighten. (d)

Insert end plug into small end of strain relief. (End plug prevents air temperature variations from affecting probe readings.)

Note: Probe tip must slightly intrude into spa to ensure accurate temperature readings.



GRID CONTROLS FLOW SWITCHES

Grid Model - 2

ITEM#	DESCRIPTION
5-20-0002	Flow Switch Connection: 1 1/2" slip PVC Flow: 12 GPM (on), 8 GPM (off) Amps: 1



Grid Model - 1

ITEM#	DESCRIPTION
5-20-0001C	Flow Switch Connection: 1 1/2" slip PVC Flow: 2 GPM (on), 0.8 GPM (off) Amps: 1 Used in Evolution and Crystal Pure Systems



Grid Model - 25

ITEM#	DESCRIPTION
5-20-0001B	Flow Switch Connection: 1 1/2" slip PVC Flow: 12 GPM (on), 7 GPM (off) Amps: 25

Aqua-Alarm 206

ITEM#	DESCRIPTION
5-20-0003	Flow Switch Connection: 1 1/2" slip PVC Flow: 12 GPM Amps: 1



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HARWIL FLOW SWITCHES

ITEM#	DESCRIPTION
5-20-0007	Flow Switch with 36" cord Q-12DS Connection: 1/2" MIPT Flow: 10 GPM Switch: SPST Amps: 1 2-pin Amp connector



5-20-0009	Flow Switch Q-12DS Connection: 1/2" MIPT Flow: 10 GPM Switch: SPST Amps: 1
-----------	--



5-20-0011	Flow Switch Connection: 2" Slip x 2" Spg 90° Q-12DS Flow: 10 GPM Switch: SPST Amps: 1
-----------	---



PRESSURE SWITCH CABLES

T-MSPA LINE

ITEM# / MFG#	DESCRIPTION	
5-50-6002 / 9920-400124	Cable 14"	T-MSPA LINE (Shown)
5-50-6004* / 9920-400340	Cable 30"	T-MSPA LINE
5-50-6006* / 9920-400256	Cable 48"	T-MSPA LINE
5-50-6013 / 9920-400182	Cable 72"	T-MSPA LINE



S-SPA LINE

ITEM# / MFG#	DESCRIPTION
5-50-6010* / 9920-400445	Cable S-SPA Line 48"
5-50-6011 / 9920-400270	Cable S-SPA Line 5"
5-50-6014 / 9920-400997	Cable flow switch universal 5"

**Limited to stock on hand.*



PRESSURE SWITCHES

**"A VERSATILE AIR- OR
WATER- ACTUATED CONTROL
FOR ALL APPLICATIONS"**



Shown (Left to Right): Universal Pressure Switch™
New Low Profile Design

Our Universal Pressure Switch is a compact switch ideally suited for a variety of applications. With an uncommonly wide range of specifications, this switch can replace most of its competitors.

- Compact Low Profile
- Visual PSI Adjustment Scale
- Factory Set at 2.2 PSI or Field Adjustable

ITEM # DESCRIPTION

Universal Pressure Switch Distributor Pack (Packaged with Compression Fittings 3/16" x 1/4" and Barb)

800120-0	1/8" NPT	21Amp, 24/240V SPDT, 1-5 PSI Plastic
800122-0	1/8" NPT	21Amp, 24/240V SPDT, 1-5 PSI Metal (no fittings)
800125-0	BARB	21Amp, 24/240V SPDT, 1-5 PSI (no fittings)
800140-0	1/8" NPT	1Amp, 24/240V SPDT, 1-5 PSI (use with millivolt gas heaters)

Universal Pressure Switch OEM Bulk Pack (Pressure Switch Only)

800120-3	1/8" NPT Plastic	21Amp, 24/240V SPDT, 1-5 PSI
800122-3	1/8" NPT Stainless	21Amp, 24/240V SPDT, 1-5 PSI
800123-3	1/8" NPT Stainless	1Amp, 24/240V SPDT, 1-5 PSI (use with millivolt gas heaters)
800125-3	Barb Plastic	21Amp, 24/240V SPDT, 1-5 PSI
800130-3	1/8" NPT Plastic	1Amp, 24/240V SPDT, 3-10 PSI
800132-3*	1/8" NPT Plastic	1Amp, 24/240V SPDT, 8-15 PSI
800134-3*	1/8" NPT Plastic	1Amp, 24/240V SPDT, 15-30 PSI
800140-3	1/8" NPT Plastic	1Amp, 24/240V SPDT, 1-5 PSI (use with gas millivolt heaters)

**Limited to stock on hand.*

Low Profile Design Distributor Pack (Packaged with Compression Fittings 3/16" x 1/4" and Barb)

800220-0	1/8" NPT	21Amp, 24/240V SPDT, 2.2 PSI Plastic
800240-0	1/8" NPT	1Amp, 24/240V SPDT, 2.2 PSI (use with millivolt gas heaters)

**Limited to stock on hand.*

Low Profile Design OEM Bulk Pack (Pressure Switch Only)

800220-3	1/8" NPT Plastic	21Amp, 24/240V SPDT, 2.2 PSI
800240-3	1/8" NPT Plastic	1Amp, 24/240V SPDT, 2.2 PSI (use with gas millivolt heaters)

DTEC

800315-3	1/8" NPT	5V, 1.5 PSI
800320-3	1/8" NPT	5V, 2.0 PSI



Pressure Switch Accessories

182010	Pressure Switch Boot	Plastic dust cover to protect wiring terminal.
522000	Compression Fitting	1/8" FIP x 3/16" OD Tube (Brass)
522001	Compression Fitting	1/8" FIP x 1/4" OD Tube (Brass)
522005	Barb	1/8" FIP x 1/8" NPT (Brass)

TECMARK PRESSURE SWITCHES

ITEM# / MFG#
 5-20-0006 / 3010P

DESCRIPTION
 Pressure Switch
 Connection: 1/8" MIPT non-metallic
 Pressure: Adjustable 1-5 lbs.
 Switch: SPST (NO) 25A



5-20-0014 / 3028

Pressure Switch
 Connection: 1/8" Barb
 Pressure: Adjustable 1-5 lbs.
 Switch: SPST (NO) 25A



5-20-0010 / 3062

Pressure Switch
 Connection: 1/8" MIPT
 Pressure: Adjustable 1-5 lbs.
 Switch: DPST (NO) 25A



5-20-0013 / 3029

Pressure Switch
 Connection: 1/8" MIPT
 Pressure: Adjustable 1-5 lbs.
 Switch: SPST (NO) 25A
*Replaces SD6560-871
 34-0110*



5-20-0008 / 3903BP

Pressure Switch
 Connection: 1/8" MIPT non-metallic
 Pressure: Adjustable 1-5 lbs.
 Switch: SPST (NO) 3A
Used for Spa Builders

**3903 Series
 Replaces 3900 Series**

5-20-7001 / 3903DF

Pressure Switch
 Connection: 1/8" MIPT non-metallic
 Pressure: 1.5PSI
 Switch: SPST (NO) 1A
*Used for Gecko
 Use item #800140-3 2.2PSI.*



5-20-7002 / 3903DG

Pressure Switch
 Connection: 1/8" MIPT non-metallic
 Pressure: 2.0PSI
 Switch: SPST (NO) 1A
*Used for Gecko
 Use item #800140-3 2.2PSI.*

TECMARK PRESSURE SWITCHES *(continued)*

ITEM# / MFG#

440800 / 34-0238 / BS-TBS3000*

DESCRIPTION

Pressure Switch, Fixed Set Point
DPDT



P.A.T. (PRES: AIR: TROL) PRESSURE SWITCHES

ITEM# / MFG#

5-20-0016 / TVP-111E-2PR

DESCRIPTION

Pressure Switch
Connection: 1/8" Barb x 9/16"
Pressure: Preset @ 2 lbs.
Switch: SPDT (NO) 21A



5-20-0017 / TRP-111E-2PR

Pressure Switch
Connection: 1/8" Barb
Pressure: Preset @ 2 lbs.
Switch: SPDT (NO) 21A



5-20-0018 / TNP-111E-2PR

Pressure Switch
Connection: 1/8" MIPT
Pressure: Preset @ 2 lbs.
Switch: SPDT (NO) 21A



5-20-0005 / PM11120E

Pressure Switch
Connection: 1/8" MIPT
Pressure: Adjustable 1-5 lbs.
Switch: SPDT (NO) 21A



5-20-0004 / PT11120L

Pressure Switch
Connection: 1/8" Barb
Pressure: Adjustable 1-5 lbs.
Switch: SPDT (NO) 21A
Used for AP-1400 Vertical Heater



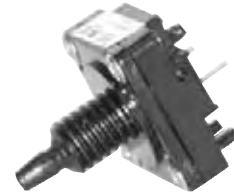


AIR SWITCHES

JAG SERIES AIR SENSORS

- Single-function switches available with either momentary or latching configurations.
- Adapted for a variety of applications.
- Contact the Sales Department for quantity OEM pricing and detailed specifications.

ITEM#	DESCRIPTION
400006	JAG-1 24VDC, 0.1Amp SPST Momentary contact to be mounted on PC Board. (Bulk)



860010-0	JAG-3 120/240V, 3Amp SPDT Momentary contact pilot duty application. (Package)
----------	---

860010-3	JAG-3 120/240V, 3Amp SPDT Momentary contact pilot duty application. (Bulk)
----------	--



860016-0	JAG-4X25A 120/240V, 25Amp, 1 or 2HP, SPDT (Panel Mount) Latching switch to operate single piece of equipment on/off. (Package) (Maximum air tubing distance is 15ft.)
----------	--

860016-3	JAG-4X25A 120/240V, 25Amp, 1 or 2HP, SPDT (Panel Mount) Latching switch to operate single piece of equipment on/off. (Bulk) (Maximum air tubing distance is 15ft.)
----------	---

860016-5	JAG-4X25A 120/240V, 25Amp, 1 or 2HP, SPST (Motor Mount) Latching switch to operate single piece of equipment on/off. (Bulk) (Maximum air tubing distance is 15ft.)
----------	---



P.A.T. (PRES: AIR: TROL) SOLENOID OPERATED SWITCHES (*Switches to 100 feet*)

Four-Function Solenoid Air Switches

21Amps; A momentary air switch is needed to actuate solenoid

ITEM# / MFG#	DESCRIPTION
3-30-0036 / MSB325A	Blue Cam
3-30-0037 / MSG325A	Green Cam



P.A.T. (PRES: AIR: TROL) AIR SWITCHES

ITEM# / MFG#	DESCRIPTION
3-20-0037 / ACA111A	Air Switch Switch: SPDT-Latching Tube Connection: 1/8" Center Spout Mounting: 8/32" screw Amps: 21
3-20-0038 / ACA211A	Air Switch Switch: DPDT-Latching Tube Connection: 1/8" Center Spout Mounting: 8/32" screw Amps: 21
3-20-0008 / TVM111B	Air Switch Switch: SPDT-Momentary Tube Connection: 1/8" Center Spout Mounting: 9/16" Amps: 21



P.A.T. (PRES: AIR: TROL) AIR SWITCHES (*cont.*)

ITEM# / MFG#	DESCRIPTION	
3-20-0006 / TVA111K	Air Switch Switch: SPDT-Latching Tube Connection: 1/8" Center Spout Mounting: 9/16" Amps: 21	
3-20-0026 / TVA211K	Air Switch Switch: DPDT-Latching Tube Connection: 1/8" Center Spout Mounting: 9/16" Amps: 21	
3-20-0027 / TRA111A	Air Switch Switch: SPDT- Latching Tube Connection: 1/8" Radial Spout Mounting: 8/32" screw Amps: 21	
3-20-0028 / TRA211A	Air Switch Switch: DPDT- Latching Tube Connection: 1/8" Radial Spout Mounting: 8/32" screw Amps: 21	
3-20-0029 / ATA111A	Air Switch Switch: SPDT- Latching Tube Connection: 1/8" Center Spout Mounting: 9/16" Amps: 21	
3-20-0030 / ATA211A	Air Switch Switch: DPDT- Latching Tube Connection: 1/8" Center Spout Mounting: 9/16" Amps: 21	

HERGA AIR SWITCHES

ITEM# / MFG#

DESCRIPTION

3-20-0002 / 6871-AEO- U126

Switch: SPDT-Latching
Tube Connection: 1/8" Center Spout
Mounting: 9/16" screw
Amps: 20



3-20-0035 / 6871-AOO-U126

Switch: SPDT-Latching
Tube Connection: 1/8" Radial Spout
Mounting: 8/32" screw
Amps: 20



3-20-0001 / 6872-AEO-U126

Switch: DPDT-Latching
Tube Connection: 1/8" Center Spout
Mounting: 9/16" screw
Amps: 20



3-30-0029 / 6872-DGO-U126

Switch: DPDT- 3 function
Tube Connection: 1/8" Center Spout
Mounting: 9/16" screw
Amps: 20



3-20-0031 / 6861-AO-U126

Switch: SPDT-Latching
Tube Connection: 1/8" Radial Spout
Mounting: 8/32" screw
Amps: 20



3-20-0032 / 6862-A-U126

Switch: DPDT-Latching
Tube Connection: 1/8" Radial Spout
Mounting: 8/32" screw
Amps: 20



3-20-0033 / 6861-AC-U126

Switch: SPDT-latching
Tube Connection: 1/8" Center Spout
Mounting: 8/32" screw
Amps: 20



3-20-0034 / 6862-AC-U126

Switch: DPDT-Latching
Tube Connection: 1/8" Center Spout
Mounting: 8/32" screw
Amps: 20



TECMARK AIR SWITCHES

ITEM# / MFG#	DESCRIPTION
3-20-0022 / TBS-301	Air Switch Switch: SPDT-Latching Tube Connection: 1/8" Center Spout Mounting: 9/16" screw Amps: 25
3-20-0007 / TBS-310	Air Switch Switch: SPST-Latching Tube Connection: 1/8" Center Spout Mounting: 9/16" screw Amps: 25
3-20-0009 / TBS-317	Air Switch Switch: DPDT-Latching Tube Connection: 1/8" Center Spout Mounting: 9/16" screw Amps: 20 Used on SBSG AP Controls for 2-Speed Pumps
3-20-0023 / TBS-3212	Air Switch Replaces TBS-212 Switch: SPDT-Latching Tube Connection: 1/8" Center Spout Mounting: 5/16" screw Amps: 25
3-20-0024 / TBS-3213	Air Switch Replaces TBS-213 Switch: DPDT-Latching Tube Connection: 1/8" Center Spout Mounting: 5/16" screw Amps: 25
3-20-0025 / TBS-302	Air Switch Switch: SPDT-Momentary Tube Connection: 1/8" Center Spout Mounting: 9/16" screw Amps: 25



HERGA SEQUENCING SWITCHES

Four-Function Air Switches

Tube Connection: 1/8" Center Spout
Mounting: 8/32" screw
Amps: 20

ITEM# / MFG#	DESCRIPTION
3-30-0030 / 6806-004-U106	Green Cam
3-30-0031 / 6806-006-U122	White Cam
3-30-0032 / 6806-002-U106	Blue Cam



Tube Connection: 1/8" Center Spout
Mounting: 9/16"
Amps: 20

ITEM# / MFG#	DESCRIPTION
3-30-0033 / 6806-010-U122	Green Cam
3-30-0034 / 6806-008-U122	White Cam
3-30-0035 / 6806-009-U122	Blue Cam



BLUE CAM POSITIONS				
SWITCH NO.	ONE	TWO	THREE	FOUR
1	OFF	ON	OFF	OFF
2	OFF	OFF	ON	OFF
3	OFF	OFF	OFF	ON
GREEN CAM POSITIONS				
SWITCH NO.	ONE	TWO	THREE	FOUR
1	OFF	ON	OFF	ON
2	OFF	ON	ON	OFF
3	OFF	ON	ON	OFF
WHITE CAM POSITIONS				
SWITCH NO.	ONE	TWO	THREE	FOUR
1	OFF	ON	OFF	ON
2	OFF	ON	OFF	ON
3	OFF	ON	OFF	ON

P.A.T. (PRES: AIR: TROL) SEQUENCING SWITCHES

Three-Function Air Switches

ITEM# / MFG#	DESCRIPTION
3-30-0016 / MTK211A	Tube Connection: 1/8" Center Spout Mounting: 9/16" Amps: 21
3-30-0025 / MTK311A	Tube Connection: 1/8" Center Spout Mounting: 9/16" Amps: 21



Four-Function Air Switches

Tube Connection: 1/8" Center Spout
 Mounting: 8/32" screw
 Amps: 21

ITEM# / MFG#	DESCRIPTION
3-30-0039 / MCB311A	Blue Cam
3-30-0040 / MCG311A	Green Cam



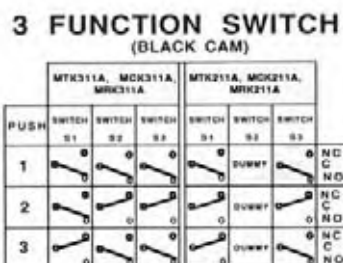
Tube Connection: 1/8" Side Spout
 Mounting: 8/32" screw
 Amps: 21

ITEM# / MFG#	DESCRIPTION
3-30-0041 / MRB311A	Blue Cam
3-30-0042 / MRG311A	Green Cam



Tube Connection: 1/8" Center Spout
 Mounting: 9/16"
 Amps: 21

ITEM# / MFG#	DESCRIPTION
3-30-0018 / MTB311A	Blue Cam
3-30-0002 / MTG311A	Green Cam



TECMARK SEQUENCING SWITCHES

SAS - Series Three-Function Stepper Switches

ITEM#	MFG#
3-30-0026	SAS-114 (shown right)
3-30-0027	SAS-143 (shown bottom right)
3-30-0043	SAS-128
3-30-0044	SAS-102
3-30-0045	SAS-126
3-30-0046	SAS-101
3-30-0048	SAS-103
3-30-0050	SAS-106



Note: See chart on following page for special orders.

Test momentary air switch
before replacing 4 function switch



Refer to Tridelta "SAS" Series Stepper Switch Sequencing Chart on next page.

SWITCHES



Factory Direct for Genuine Brand Products

Len Gordon • Spa Builders Systems • Gecko • Aeware
Aqua-Flo • Brett Aqualine ... and Much More!

ROCKER SWITCHES

ITEM#	DESCRIPTION
5-40-0008	10 Amp, DPDT (3-way Rocker)
5-40-0009	10 Amp, SPDT (Center Off)
5-40-0010	15 Amp, SPDT - Replaces 450411 (For AP Controls)
5-40-0011	16 Amp, SPST with soft plastic cover - Replaces 450400
5-40-0013	15 Amp, SPDT



TOGGLE SWITCHES

ITEM#	DESCRIPTION
5-40-0001	20 Amp, SPST, Plastic
5-40-0002	20 Amp, SPST, Metal
5-40-0003	20 Amp, SPDT, Metal
5-40-0004	20 Amp, SPDT, Metal (Center Off)
5-40-0005	20 Amp, DPDT, Metal - Used on FF/HL 32, 1000LTC
5-40-0006	20 Amp, DPDT, Metal (Center Off) - Replaces 34-0223
5-40-5000	20 Amp, DPST, Metal - Replaces 34-0115
5-40-5004K	16 Amp, SPST - Replaces 34-0120 & 450411



DI\$COUNT DAZE

at



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Gecko • Catalina Controls • CRL • Premier • Ramco

Join Us for our "Discount Daze" Program where you will find control systems, equipment packs and parts that are re-conditioned and offered to you at a price you cannot resist.

An added bonus includes a **90-day warranty** for the items offered in our program at **no additional cost**. Items are limited and subject to availability and cannot be combined with any other promotional offer.

If you are not receiving our monthly promotions via fax or email, please let us know if you would like to be added to our mailing list.

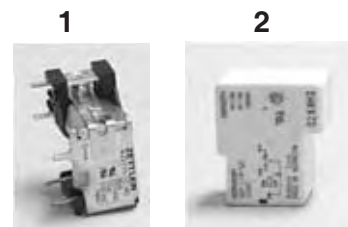
RELAYS

ITEM# / MFG#
5-00-0002 / RM 205-615 (105-615)
5-00-0003 / RM 705-615
5-00-0004 / 203-512
5-00-0021 / RM 703006

DESCRIPTION
110VAC,DPDT, 16A
110VAC,TPDT, 16A
12VAC, DPDT, 15A
6VDC,TPDT, 15A



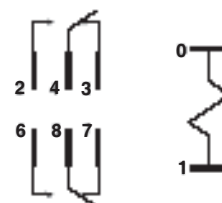
ITEM# / MFG#	DESCRIPTION	REF
410008 / RTE240005F	5VDC, DPDT, 8A	
410009 / AZ942-1C-24DE	24VDC, SPDT, 10A	
410014 / T9AS1D22-12 (36-0209)	12VDC, SPST, 30A	
410112 / 713-12-711	12VDC, 2.5A	
410132 / T90N1D12-48	48VDC, SPST, 30A	1
410133 /	DUST COVER FOR T90	2
410135 / T90N5D12-48	48VDC,SPDT, 20A	1
36-0208 / T73S5D14-12	24VDC,SPDT, 6A	
5-00-0023 / AZ2111-1C-6	6VDC,SPDT, 20A	2
5-00-0031 / G4A-1A-12	12VDC, SPST, 20A	
5-00-0034 / G8P-114P-USDC12 / T9AS1D12-12	12VDC,SPDT, 15A	2
5-00-0049 / G7G1A4-CB	12VDC, SPST, 30A	
5-00-0063 / T9AS1D22-22	24VDC, SPST, 30A	
5-00-0083 / T90N5D12-24	24VDC, SPST, 20A	1
5-00-0085 / AZ762-1A-12DEF	12VDC, SPDT,16A	



ITEM# / MFG#	DESCRIPTION	REF
410128 / AZ2280-1C-120A	120VAC, SPDT, 20A	1
410134 / T92P7A22-120	120VAC, DPST,30A	N/A
410139 / G7L-1A-TUB-CB	120VAC, SPST 25A	N/A
410239 / G7L-1A-TUBJ-CB	240VAC, SPST 25A	N/A
5-00-0014 / G7L-2A-BUBJ-CB-DC24	24VDC, DOPST-NO w/ bracket	N/A
410244 / T92S11A22-240	220VAC,DPDT, 30A	3
5-00-0009 / G4B-112T1-C-US	110VAC, SPDT, 15A	1
5-00-0010 / G7L-2ATUBJ-CB	110VAC, DPST, 20A	2
5-00-0039 / W9ASA52-120	120VAC, SPDT, 20A	1
5-00-0051 / T92S11D22-12	12VDC, DPDT, 30A	3
5-00-0053 / T92S11A22-120	110VAC, DPDT, 30A	3
5-00-0078 / T92S11D22-110	110VDC, DPDT, 20A	3
36-0119 / 855AW-1A-F-C1	12VDC, SPST, 30A	1
36-0207 / T9AP5D52-12	12VDC,SPDT 30A	1



Wiring Diagram (T92)



Only necessary terminals are present on single throw models.

RELAYS (continued)

ITEM# / MFG#	DESCRIPTION	REF	1	3
410122 / S90R5ABD1-120 (LG1-1)	120VAC, SPDT, 20A	1		
410123 / S90R11ABD1-120 (LG1-2)	120VAC, DPDT, 20A	3		
410124 / S90R17ABD1-120 (LG1-4)	120VAC, 4PDT, 20A	4		
410125 / S90RXXABD1-120 (LG1-3)	120VAC, 3PDT, 20A	2		
410242 / S90R5ABD1-240 (LG2-1)	240VAC, SPDT, 20A	1		
410243 / S90R11ABD1-240 (LG2-2)	240VAC, DPDT, 20A	3		
410320 / S90R11AB1D1-24	24VAC, DPDT, 20A	3		

ITEM# / MFG#	DESCRIPTION	REF	1	2
5-00-0042 / S86R5A1B1D1-120	120VAC, SPDT, 20A	1		
5-00-0043 / S86R11A1B1D1-120	120VAC, DPDT, 20A	2		
5-00-5003 / S86R11A1B1D1-240	240VAC, DPDT, 20A	2		

410120 / S87R5A2B1D1-120	120VAC, SPDT, 20A	
410121 / S87R11A2B1D1-120	120VAC, DPDT, 20A	
410241 / S87R11A2B1D1-240	240VAC, DPDT, 20A	
5-00-0046 / S87R11A2B1D1-24	24VAC, DPDT, 20A	

CONTACTORS

ITEM# / MFG#	DESCRIPTION	REF	1	2	3
410305 / 42CF35AG	220VAC, 3PST, 50A	3			
410310 / 42CF25AG	220VAC, 4PST, 50A				
5-00-0011 / 45CG20AFB	110VAC, DPST, 30A	1			
5-00-0015 / CV2000	Replacement Kit RAMCO	2			
5-00-0033 / A77-306657-A-52	220VAC, DPST, 50A				
5-00-0044 / 45CG20AJB	24VAC, DPST, 30A	1			
5-00-0062 / 45CG10AGB	220VAC, SPST, 30A				
5-00-0064 / 45EG20AFB	110VAC, DPST, 40A	1			
5-00-0065 / 45CG10AFB	110VAC, SPST, 25A				
5-00-0066 / 45FG20AFB	110VAC, DPST, 50A	1			
5-00-0067 / 45CG20AGB	220VAC, DPST, 30A	1			
5-00-0076 / 42CF35A1	110VAC, TPST, 50A	3			
5-00-0079 / 42DF35AF	110VAC, TPST, 60A	3			
5-00-0080 / 3100-20T3612	110VAC, DPST, 30A	1			
5-60-0089	Quencharc Arc Suppressor				
5-60-5037*	Contactor Snubber Network, Brett				

***Limited to Stock on Hand.**

ITEM# / MFG#	DESCRIPTION	
5-00-0040 / PRD7AGO-120	120VAC, DPST, 30A	
5-00-0048 / PRD11AYO-120	120VAC, DPDT, 30A	
5-00-0081 / PRD11DYO-120	120VDC, DPDT, 30A	



AIR BUTTONS

#4 "LITE TOUCH™"

•Up to 75-foot control distance with Len Gordon momentary air sensor.

•Requires 1-1/4" mounting hole.



Shown (Left to Right):
 Gunite Finish,
 Standard Finish

**"DESIGNED FOR FIBERGLASS,
 WOOD, GUNITE AND JETTED
 SPA APPLICATIONS"**

ITEM# DESCRIPTION

Standard Finish Models

950401-000	White
950402-000	Bone Beige
950404-000	Brown
950407-000	Black

Gunite Models

950410-000	White
950415-000	Black

ITEM# DESCRIPTION

Internals

850401-0	Button Internal, White
850402-0	Button Internal, Bone Beige
850404-0	Button Internal, Brown
850407-0	Button Internal, Black

#10 "POWER TOUCH™"



Shown (Left to Right):
 Smooth Finish, Scalloped Finish

•Up to 150-foot control distance with Len Gordon momentary air sensor or 15-foot control distance with Len Gordon latching air sensor.

•Requires 1-3/4" mounting hole.

**Available in LGC "Smooth" or American
 Products "Scalloped" style button cap.**

ITEM# DESCRIPTION

LGC "Smooth"

951001-000	White
951002-000	Bone Beige
951007-000	Black

ITEM# DESCRIPTION

American Products "Scalloped"

951040-000	White
951020-000	*Silver
951021-000	*Raspberry Puree
951025-000	*Almond Bone
951026-000	Biscuit
951036-000	*Country Grey
951047-000	*Black

**Limited to stock on hand.*

BUTTON CONTROL DISTANCE STANDARDS

The table to the right illustrates the maximum control distance of each button.

CONTROL	#4 Button	#10 Button	#15 Button
AS Series & 3F	50 ft.	150 ft.	150 ft.
ES-Combo		15 ft.	15 ft.
FF-1094 Series	50 ft.	150 ft.	150 ft.
TF-1		15 ft.	15 ft.

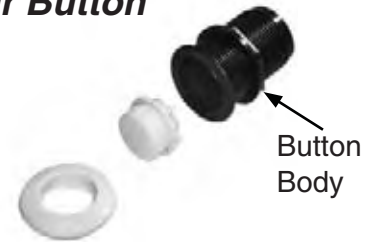


AIR BUTTONS (continued)

- Up to 150-foot control distance with Len Gordon momentary air sensor or 15-foot control distance with Len Gordon latching air sensor.
- Requires 1 3/8" mounting hole.
- Choose from our "Classic Touch" or "Designer Touch" trim kits.

ITEM #	DESCRIPTION
951590-000	#15 Button Body for all colors (Pkg w/ instruction sheet)
951590-003	#15 Button Body for all colors (Bulk)

#15 "Classic Touch™" Air Button



"CLASSIC TOUCH™" TRIM KITS PLASTIC (Button Body Required)

ITEM #	DESCRIPTION
951601-000	White
951602-000	Bone Beige
951607-000	Black
951608-000	Silver Grey
951621-000	Raspberry Puree
951625-000	Almond Bone
951626-000*	Shell
951627-000*	Wild Rose
951628-000*	French Vanilla
951632-000*	Peach Bisque
951633-000*	Innocent Blush
951636-000	Country Grey
951638-000	Dusty Rose
951639-000	Teal
951640-000	Biscuit
951641-000*	Dresden Blue
951644-000*	Navy
951651-000*	Island Sea

METAL TRIM KITS (Button Body Required)

ITEM #	DESCRIPTION
951725-000B	Plateable (Bulk)
951730-000	Chrome
951731-000	Satin Chrome
951732-000	Chrome (Plastic)
951741-000	Polished Brass
951742-000	Antique Brass
951743-000	PVD Brass
951745-000	Weathered Brass
951750-000	Satin Gold
951751-000	Polished Gold
951760-000	Polished Stainless
951761-000	Brush Stainless
951770-000*	Pewter
951780-000	Satin Nickel
951781-000	Polished Nickel
951784-000*	Pearl Nickel
951790-000	Weathered Copper
951791-000	Polished Copper
951792-000	Antique Copper
951793-000	Brushed Bronze PVD
951795-000	Oil Rubbed Bronze
951796-000	Venetian Bronze
951797-000	Matte Black



*Limited stock on hand.

#16 Square Trim Kits (Button Body Required)



ITEM #	DESCRIPTION
951830-000	Chrome
951861-000	Brushed Stainless
951880-000	Satin Nickel
951881-000	Polished Nickel
951895-000	Oil Rubbed Bronze

"Designer Touch" Plastic Trim Kits (Button Body Required)



ITEM #	DESCRIPTION
951801-000	White
951807-000	*Black



AIR BUTTONS (continued)

#15 "Classic Touch™"

Air Button Complete Assembly

ITEM #	DESCRIPTION	ITEM #	DESCRIPTION
951590-601	White	951590-636	Countrey Grey
951590-801	Designer White	951590-640	Biscuit
951590-607	Black	951590-732	Chrome Plastic
951590-807*	Designer Black	951590-742	Antique Brass
951590-730	Chrome	951590-741	Polished Brass
951590-608	Silver Grey	951590-743	Brass PVD
951590-602	Bone Beige	951590-751	Polished Gold
951590-781	Polished Nickel	951590-760	Polished Stainless
951590-780	Satin Nickel	951590-790	Weathered Copper
951590-625	Almond Bone	951590-795	Oil Rubbed Bronze

*Limited to stock on hand.



AIR BUTTONS

Air Button Accessories

#15 BUTTON DECKPLATE



- Available in 2 or 3-button configuration.
- Textured finish to eliminate the use of faceplate.
- Available in black.
- Dimensions: 6 1/2" x 3 3/8"

ITEM #	DESCRIPTION
951522-000	#15 Button Panel 15-2 (2-Btn)
951523-000	#15 Button Panel 15-3 (3-Btn)

NOTE: Buttons & Custom Faceplates Sold Separately

ITEM #	DESCRIPTION
951905-000	Trim Kit, Color Metal Ring



P.A.T. (PRES: AIR: TROL) AIR BUTTONS

Hole Size: 5/8"
Face: 1 1/4"
Attachment: Nut

ITEM# / MFG#
3-15-0129 / B513W

DESCRIPTION
White



Hole Size: 3/4"
Face: 2 5/8"
Attachment: Nut

ITEM# / MFG#
3-15-0122-A / B142WA
3-15-0122-B / B142BA

DESCRIPTION
White
Black



Hole Size: 1/4" (for air tubing)
Face: 2 3/4"
Attachment: 8/32" Screw

ITEM# / MFG#
3-15-0035-A / B141WA
3-15-0035-B / B141BA

DESCRIPTION
White
Black



Hole Size: 1 5/8"
Face: 2 5/8"
Attachment: Nut

ITEM# / MFG#
3-15-0118-A / B225WA
3-15-0118-C / B225CA
3-15-0123 / B225BA

DESCRIPTION
White Raised
Chrome Raised
Black Raised



TECMARK AIR BUTTONS

Hole Size: 1 1/4"
Face: 1 5/8"
Attachment: Nut

ITEM# / MFG#
3-15-0033-A / MPT-3428W
3-15-0033-B / MPT-3428B
3-15-0033-C / MPT-57570-3428

DESCRIPTION
White
Black
Chrome



Hole Size: 1 5/8"
Face: 2 5/8"
Attachment: Nut

ITEM# / MFG#
3-15-0126 / MTP-01010-342

DESCRIPTION
White



P.A.T. (PRES: AIR: TROL) AIR BUTTONS (*cont.*)

Hole Size: 1 5/8"
 Face: 2 5/8"
 Attachment: Nut

ITEM#

3-15-0119-A
 3-15-0119-C
 3-15-0120

DESCRIPTION

White
 Chrome
 Antique Brass



Hole Size: 1 1/2"
 Face: 1 11/16"
 Attachment: None

ITEM#

3-15-0032-A
 3-15-0032-B

DESCRIPTION

White
 Black



Hole Size: 9/16"
 Face: 1 1/8"
 Attachment: 3/8"

ITEM# / MFG#

3-15-0135 / B465BA

DESCRIPTION

Mini Button Black



Hole Size: 1 1/4" PVC Pipe
 Face: 1 1/2"

ITEM# / MFG#

3-15-0133 / B340WHT

DESCRIPTION

Air Button B340 White (P.A.T.)





Factory Direct for Genuine Brand Products

Len Gordon • Spa Builders Systems • Gecko • Aeware
Aqua-Flo • Brett Aqualine ... and Much More!

HERGA AIR BUTTONS

ITEM# / MFG#
3-15-0136 / 6433

DESCRIPTION
Complete
Flange: 2 1/4"
Length: 2 1/8"
Hole: 3/4"



ITEM# / MFG#
3-15-0317 / 6435-04

DESCRIPTION
Complete
Flange: 3/4"
Length: 1/4"
Hole: 1/4"



ITEM# / MFG#
3-15-0318 / 6439

DESCRIPTION
Complete
Flange: 2 1/4"
Length: N/A
Hole: Surface



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at



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An added bonus includes a **90-day warranty** for the items offered in our program at **no additional cost**. Items are limited and subject to availability and cannot be combined with any other promotional offer.

If you are not receiving our monthly promotions via fax or email, please let us know if you would like to be added to our mailing list.

HERGA AIR BUTTONS (*cont.*)

ITEM# / MFG#	DESCRIPTION
3-15-0319 / 6444-04	Replacement Bellows Flange: N/A Length: N/A Hole: N/A



ITEM# / MFG#	DESCRIPTION
3-15-0320 / 6445-OW	Complete (White) Flange: 1 1/4" Length: 4 1/2" Hole: 5/8"



ITEM# / MFG#	DESCRIPTION
3-15-0321 / 6470-00	Replacement Bellows Flange: N/A Length: N/A Hole: N/A



ITEM# / MFG#	DESCRIPTION
3-15-0322 / 6473	Complete (White) Flange: 1 3/4" Length: 1 3/4" Hole: 1 1/2"



AIR BUTTON ACCESSORIES

ITEM#	DESCRIPTION
190020	Tubing Coupler 1/8" (each)
990310-000	Tubing Coupler (10 pack)



ITEM#	DESCRIPTION
990100-000	Tubing Kit, 75' roll of 1/8" ID, .220 OD vinyl tubing packaged with coupler
991000-000	Tubing 1/8" ID, 2000' roll (bulk), .220 OD
991010-000	Tubing 1/8" ID, 10' roll (bulk), .220 OD
991020-000	Tubing 1/8" ID, 20' roll (bulk), .220 OD
991075-000	Tubing 1/8" ID, 75' roll (bulk), .220 OD
991100-000	Tubing 1/8", 100' roll (bulk), .220 OD
8-05-0012	Tubing 1/8" ID, Sold per foot .220 OD



ITEM#	DESCRIPTION
190030	Tubing-T (each)
990300-000	Tubing-T (10 pack)



SPABUILDERS

GROUND FAULT PROTECTION CONTROLS

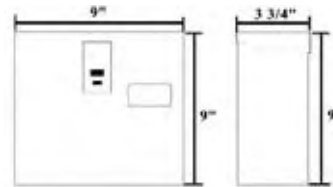
"An Innovative Control that Sets New Standards in Ground Fault Protection"

- 50 Amp or 60 Amp service options
- Optional 90 decibel alarm models
- Fuseless disconnect
- NEMA 3R enclosure
- Monitors and opens L1, L2 and neutral
- 3 wire or 4 wire installations
- NEC 680.12, 680.42, 426.28, 426.50
- UL listed
- Resolves nuisance tripping



Additional Benefits:

- Ideal for use with spas, swimming pools, fountains, submersible and therapeutic equipment
- Self contained "2-in-1" unit solves space and compatibility issues



ITEM#	MODEL / MFG #	RATINGS	DESCRIPTION
3-70-0087	LC220-D-50	50 Amp	50 Amp GFCI and disconnect (replaced item #3-70-0030)
3-70-0446	LC220-DA-50	50 Amp	50 Amp GFCI and disconnect with alarm
3-70-0451	LC220-D-60	60 Amp	60 Amp GFCI and disconnect
3-70-0316	LC220-DA-60	60 Amp	60 Amp GFCI and disconnect with alarm

Technical Note:

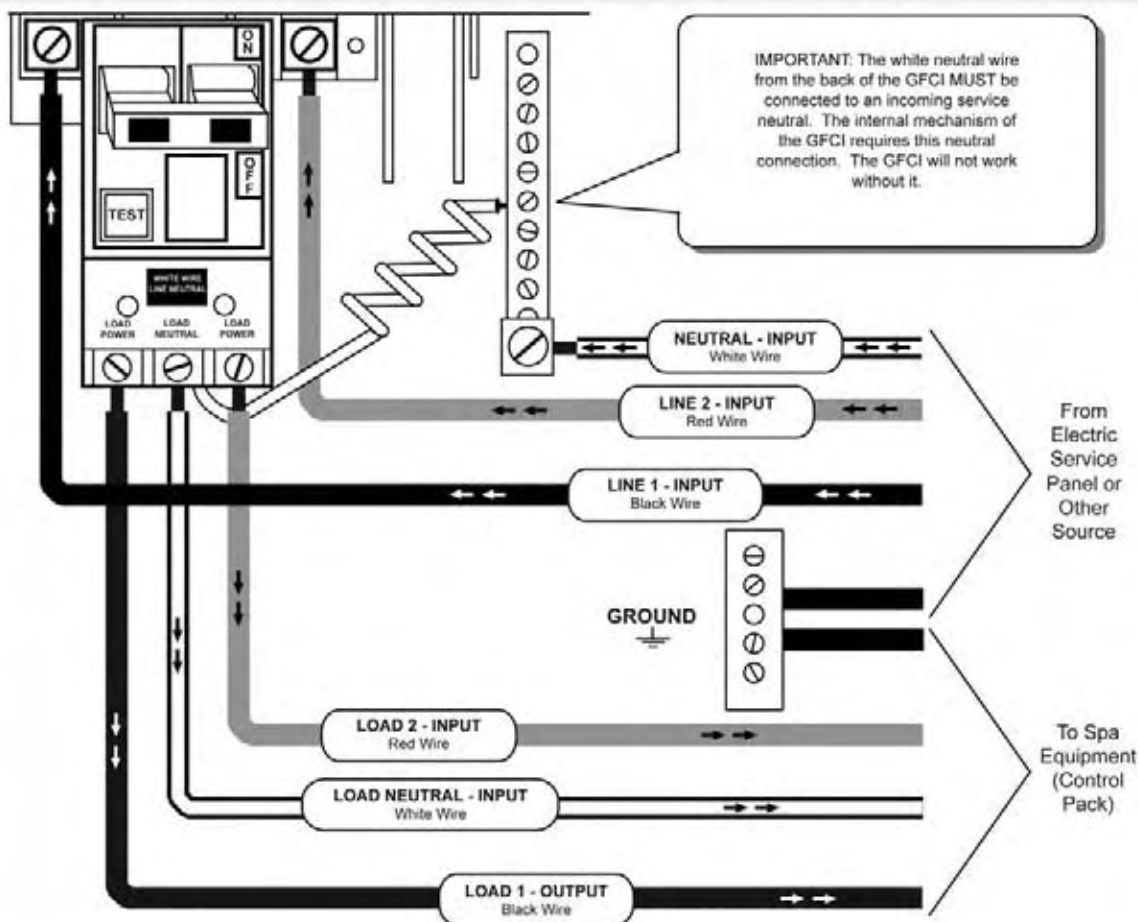
- 50 Amp disconnects have full load ratings of 40 Amps
- 60 Amp disconnects have full load ratings of 50 Amps

Issue	LC - Series	Breaker in-a box	Notes
Separate ground fault and over-current trip	Yes	No	In the LC-Series, the GFCI trips for the ground fault, the breaker in the panel for the over current. A GFCI breaker does not show the distinction
"SMART LOCK" protection	Yes	No	Patented mechanism insures that a GFCI fails in the open position (effective July, 2003).
Unbalanced loads and Surging pumps	Carried at contactor	Carried by GFCI breaker	The contactor is designed to carry and buffer these stressful conditions.
60 Amp available (w/ neutral)	Yes	No	Most if not all of the prepackaged "B in B" units are only available with 50 amp service applications. Several of the breaker manufacturers do not offer a 60 amp GFCI breaker or do not offer one with a neutral that the spa may need for a 110V device.
90- Decibel Trip ALARM	Yes	No	This option alerts user that the GFCI has tripped so as to safeguard against freezing. It can also be connected to a central station alarm.
Wiring space	Large	Varies	Usually tight in the prepackaged B in B units.
Allows for sub - breaker	No	Varies	This allows for an outlet to be added under the GFCI protection. It saves wire and labor on the install but increases the risk of nuisance tripping and circuit overload.

Effective January 1994, GFCI's are required for spa installations. If you already own a spa or recently purchased a used spa that does not have an installed GFCI, we strongly urge you to improve safety and comply with current standards by installing one.

GFCI WIRING DIAGRAM

220V GFCI SPA WIRING DIAGRAM FOR CERTIFIED ELECTRICIAN'S REFERENCE ONLY



**GROUND FAULT CIRCUIT
INTERRUPTERS**

Tripping GFCI Breaker Facts

In 99.99999999% of all cases, a circuit board, control panel, remote, or temperature/hi-limit sensor will not trip a GFCI breaker! In most cases, a tripping GFCI breaker is caused by a faulty pump motor, blower motor, heater element, bad GFCI breaker or miswired neutral!

Warranty returns for circuit boards, control panels, remotes, and temperatures sensors claiming their cause of failure as "tripping GFCI breaker" will be rejected unless previously authorized by OUR technician. We will issue an RMA to cover such a return.

GROUND FAULT CIRCUIT INTERRUPTERS

ITEM#

5-10-0009

DESCRIPTION

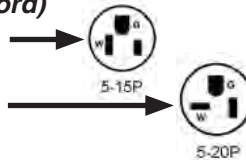
GFCI with 15' power cord 14/3
110V, 13 Amp



Leviton (90 Degree Plug with 15' Power Cord)

5-10-0026

110V, 15 Amp, 14/3



5-10-0028

110V, 20 Amp, 12/3



Leviton Class "A" Applications

5-10-0001

110V, 20 Amp



Leviton Class "A" for High Current Applications

5-10-0032

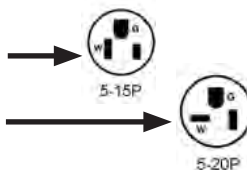
240V, 5MV sensitive, up to 80 Amp
Replaces item #5-10-0010



Leviton 90 Degree Plug, Cord Mount

5-10-0025

120V, 15 Amp



5-10-0027

120V, 20 Amp



Disconnect - Double Pole

5-10-0023

240V, 50/60 Amp
Special part for use with SBSG high current GFCI's on [page 169](#).
Sold as disconnect and base only.



CORDS

ITEM#
5-50-0061

DESCRIPTION

Right Angle NEMA Plug →
 110V Cord, 20 Amps
 Wire: 12/3 x 15'
 Uses: Power for 110V equipment



5-50-0087

Right Angle NEMA Plug →
 110V Cord, 15 Amps
 Wire: 14/3 x 15'
 Uses: Power for 110V equipment



CORDS	PLUG	GAUGE / CONDUCTOR X LENGTH	COLOR	USE
5-50-0174	Position 2	Wire: 18/2 x 36"	White	Flow switch
5-50-0062	Position 3	Wire: 16/3 x 36"	White	Blower
5-50-0063	Position 3	Wire: 16/3 x 36"	Yellow	Light
5-50-0064	Position 3	Wire: 16/3 x 36"	Blue	Ozone
5-50-0220	Position 3	Wire: 14/3 x 16'	White	Pump (1-speed)
5-50-0065	Position 4	Wire: 14/4 x 42"	Red	Pump (2-speed)
5-50-0066	Position 4	Wire: 14/3 x 36"	White	Blower
5-50-0067	Position 4	Wire: 14/3 x 36"	Yellow	Light, 110V
5-50-0080	Position 4	Wire: 14/3 x 48"	Red	Pump (1-Speed)
5-50-0136	Position 4	Wire: 16/3 x 36"	Fuchsia	24 Hour Circ Pump/Aux
5-50-0175	Position 4	Wire: 16/3 x 36"	Blue	Ozone
5-50-0179	Position 4	Wire: 14/3 x 12'	Red	Pump (1-Speed)
5-50-0198	Position 4	Wire: 14/4 x 72"	Red	Pump (2-speed)
5-50-0206	Position 4	Wire: 14/3 to NEMA x 36"	White	Blower
5-50-0207	Position 4	Wire: 14/3 x 36"	White	Adapter: AMP to MJJ Blower
5-50-0208	Position 4	Wire: 14/3 x 36"	White	Adapter: AMP to JJ Blower
5-50-0211	Position 4	Wire: 14/4 x 14'	Red	Pump (2-speed)
5-50-5005	Position 4	Wire: 14/4 x 34"	White	Blower with Strain Relief
5-50-5006	Position 4	Wire: 14/3 x 72"	Orange	Accessories



PROPAK CORDS

ITEM# DESCRIPTION

GECKO CORD SETS

5-30-7020	9920-100112	AMP	ASSY CABLE KIT AMP (2) FOR SSPA PROPAK	PUMP1, PUMP 2 OR BLOWER
5-30-7021	9920-100113	JJM	ASSY CABLE KIT JJM (4) FOR MSPA PROPAK	BLOWER, OZONE, PUMP 1, PUMP 2

INDIVIDUAL CORD SETS

5-50-0052	JJM	STANDARD STOCK CORD	BLOWER MSPA ONLY / SSPA CIRC Pump
5-50-0058	JJM	STANDARD STOCK CORD	PUMP 2 / BLOWER SSPA ONLY
5-50-0053	JJM	STANDARD STOCK CORD	CIRC PUMP (CP) / FIBER BOX (FB) MSPA
5-50-0056	JJM	STANDARD STOCK CORD	PUMP 1 MSPA, SSPA / PUMP 2 MSPA ONLY
5-50-0055	JJM	STANDARD STOCK CORD	OZONE MSPA, SSPA
5-50-0057	JJM	STANDARD STOCK CORD	FIBER BOX ON 3-74-7035 & 3-74-7036
5-50-0065	AMP	STANDARD STOCK CORD	MSPA P1, P2, SSPA P1
5-50-0066	AMP	STANDARD STOCK CORD	SSPA PUMP 2/BLOWER, CIRC PUMP, OZONE
5-50-0175	AMP	STANDARD STOCK CORD	MSPA CIRC

ITEM #/ MFG#

3-90-0103 / 9920-400965

DESCRIPTION

Cable MSPA/in.tune IR Repeater for M-Class



5-60-6027 / 9920-100182

Cable IRMR-2-6P-6FT
Infrared receptor for M-class spa systems



IN.LINK CORDS

ITEM #/ MFG#

5-60-6029 / 9920-401022

DESCRIPTION

Cable in.link LV Light 12V 12FT



5-60-7266 / 9920-101436

Cable Kit



5-60-6031 / 9920-401195

HC 2S (P1) 15A 120V 4FT

5-60-6033 / 600DB0821

HC 2S (P2) 15A 240V 8FT

5-60-6034 / 600DB0833

HC 1S (P2) 15A 240V 8FT (shown right)

5-60-6035 / 600DB0721

LC 1S (B&O) 5A 240V 4FT

5-60-6036 / 9920-401239

HC 2S (P1) 15A 120V 8FT

5-60-6037 / 600DB0754

LC 1S (B&O) 5A 120V 4FT





IN.LINK CORDS (*continued*)

in.link CABLE KEYS

ITEM #/ MFG#

5-60-6038 / 9917-100887
 5-60-6039 / 9917-100888
 5-60-6040 / 9917-100894
 5-60-6041 / 9917-100898

DESCRIPTION

Keying cable HC-P2 Violet
 Keying cable HC-P1 Orange
 Keying cable LC-BL Blue
 Keying cable LC-03 Gray



CORDS

ITEM #/ MFG#

3-00-8041 / 22632

DESCRIPTION

50' Extension



5-50-0020 / 21223

Plug 2 Pos P/S 56" Long



AMP, PLUGS, PINS AND TOOLS

ITEM# / MFG#

35-0001 / 480703-5

DESCRIPTION

Female: 4 Pin Mate-n-Lock White (shown)

35-0003 / 480702-5

Male: 4 Pin Mate-n-Lock White



340303 / 480701-5

Female: 3 Pin Mate-n-Lock White

340302 / 480700-5

Male: 3 Pin Mate-n-Lock White (shown)



5-60-0061 / 1-480698-0

Male: 2 pin Mate-n-Lock White

35-0022

Female: 2 Pin Mate-n-Lock White



340362 / 350922-2

Male: 12-10 Mate-n-Lock Pin (shown)

340360 / 350923-3

Female: 12-10 Mate-n-Lock Socket



340300 / 350218-1 / 350547-1

Male: 20-14 Mate-n-Lock Pin

340301 / 350550-1

Female: 20-14 Mate-n-Lock Socket (shown)



5-60-9005 / 305183

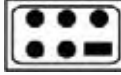
AMP Extraction Tool (shown)



J & J CORDS & RECEPTACLES

FEMALE RECEPTACLES	PART #	MALE PLUGS	PART #
Blower Receptacles 3 Leads 9" Long 18 AWG	 5-50-0002	Blower Plug 48" Long SJT W-A 105°C WR 18/3 AWG	 5-50-0022  5-50-0023
Light Receptacle 3 Leads 9" Long 18 AWG	 5-50-0004	Light Plug 48" Long SJT W-A 105°C WR 18/3 AWG	 5-50-0024
Ozonator Receptacle 3 Leads 9" Long 18 AWG	 5-50-0005	Ozonator Plug 48" Long 18/3 AWG	 5-50-0025
Nema Receptacle 3 Leads 8" Long 18 AWG	 5-50-0006	Nema Plug All Wire 6' Long	 310520
Pump Receptacles 4 Leads 8" Long 14 AWG	 5-50-0007  5-50-0008	Pump Plugs 48" Long 14/4 AWG	 5-50-0027  5-50-0028
Heater Receptacles 5 Leads 8" Long 14 AWG	 5-50-0010 (Obsolete)  5-50-0011	Heater Plugs 48" Long SJT W-A 105°C WR 14/5 AWG	 5-50-0030  5-50-0031
Spa Side Receptacle 6 Leads 9" Long 18 AWG	 5-50-0012	Spa Side Plug SJT W-A 105°C WR 18/6 AWG	 5-50-0032
For Aquaset/ Len Gordon/ P.A.T./ TDI			

J & J MINI CORDS & RECEPTACLES

FEMALE RECEPTACLES		PART #	MALE PLUGS		PART #
Blower 3 Leads 9" Long 18 AWG		5-50-0042	Blower 48" Long 18/3 AWG		5-50-0052
		5-50-0043			5-50-0053
Light 3 Leads 9" Long 18 AWG		5-50-0044	Light 48" Long 18/3 AWG		5-50-0054
Ozonator 3 Leads 9" Long 18 AWG		5-50-0045	Ozonator 48" Long 18/3 AWG		5-50-0055
Pump 4 Leads 9" Long 14 AWG		5-50-0046	Pump 48" Long 14/4 AWG		5-50-0056
Pump 4 Leads 9" Long 14 AWG		5-50-0047	Pump 48" Long 14/4 AWG		5-50-0057 (Replaced: #5-50-0139)
3 Leads (Use: 2 Pump Systems) 9" Long 14 AWG		5-50-0048	48" Long (Use: 2 Pump System) 14/3 AWG		5-50-0058
Spa Side 6 Leads 9" Long 18 AWG		5-50-0049	Spa Side 18/6 AWG		5-50-0059

TUV Rated Cords and Receptacles Available!

ITEM#	DESCRIPTION
38-0440	Receptacle Mini TUV Grey, Blower
38-0430	Receptacle Mini TUV Lock-N-Seal, Circ Pump
38-0443	Receptacle Mini TUV Grey, Light

HYDROQUIP™ CORD ADAPTERS

ITEM# / MFG #	DESCRIPTION
5-50-0075 / 30-1057-36	Cord Adapter Amp To NEMA 36'
5-50-0076 / 30-1190-C48	Cord Adapter Amp To JJ/Mold 48"
5-50-0077 / 30-1190-C96	Cord Adapter Amp To JJ/Mold 96"

FUSES

Slo Blo Fuse - SC Series 300V - Class G

ITEM#	DESCRIPTION
5-60-0238	20 Amp
5-60-0108	25 Amp
5-60-0191	30 Amp
5-60-7072	60 Amp
5-60-0345	15 Amp



Slo Blo Fuse - MDA Series

ITEM#	DESCRIPTION
5-60-0105	8 Amp
5-60-0084	15 Amp
5-60-0139	20 Amp
5-60-0163	30 Amp
5-60-0150	25 Amp
5-60-0250	0.3 Amp
5-60-0149	1.25 Amp
37-1028	1 Amp
37-1038	2 Amp



Little Fuse

ITEM# / MFG#	DESCRIPTION
5-60-0260	1.25 Amp
5-60-0303 / 229-002	2 Amp
5-60-0301 / 229-003	3 Amp
5-60-0308 / 229-004	4 Amp
5-60-7072*	Fuse Time Delay 60A Main



**Limited to Stock On Hand*



FUSES



ITEM# / MFG#	DESCRIPTION
5-60-7071 / 430AD0103	Fuse Slo-Blo 630MA 250V 5 x 20mm New Transformer Fuse
5-60-0108 / 430AE0033	Fuse Time Delay 25A 300V Pump 1, 2, 3
5-60-0303 / 430AC0103	Fuse Slo-Blo 3AG 2A Light SSPA
5-60-7066 / 430AC0054	Fuse Slo-Blo 3AG 5A 250V Circ/ Ozone/ Aux (MSPA, TSPA)
5-60-7067 / 430AC0069	Fuse Time Delay 3AG 10A 250V Blower (MSPA)
5-60-7068 / 430AC0092	Fuse Slo-Blo 3AG 1A 250V Transformer (MSPA, TSPA)
5-60-7069 / 430AC0117	Fuse Fast-Acting 3AG 3A 250V Light (MSPA, TSPA)
5-60-7070 / 430AD0066	Fuse Fast-Blo .75A 250V 5X20MM Transformer (SSPA)

FUSE HOLDERS

BG 3031S Series

ITEM#	DESCRIPTION
5-10-0008	30 Amp
5-10-0018	20 Amp



HPF - FF Series

ITEM#	DESCRIPTION
5-10-0011	Fits 20 Amp, 25 Amp & 30 Amp fuses



BHK PHH Series

ITEM#	DESCRIPTION
5-10-0007	Fits 10 Amp, 15 Amp, 20 Amp, 25 Amp & 30 Amp fuses



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If you are not receiving our monthly promotions via fax or email, please let us know if you would like to be added to our mailing list.

CIRCUIT BREAKERS

ITEM#	DESCRIPTION
5-10-0005	15 Amp, 120V Panel Mount
5-10-0006	20 Amp, 120V Panel Mount
5-10-5001	25 Amp, 120V Panel Mount



TERMINAL BLOCKS

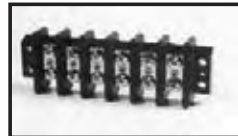
5-60-0007	110/220V, 15 Amps, 8 Poles
-----------	----------------------------



5-60-0239	110/220V, 40 Amps, 4 Poles
-----------	----------------------------



5-60-0257	110/220V, 40 Amps, 6 Poles
-----------	----------------------------



5-60-0168	110/220V, 50 Amps 3 Poles each #6-14 AWG
-----------	---



5-60-0242	110/220V, 50 Amps 3 Poles each #4-14 AWG
-----------	---



5-60-0200	110/220V, 50 Amps 2 Poles each #6-14 AWG
-----------	---

320019-0	Terminal Strip, E-6 Female 12 Position 14-22 AWG 26A 380V
----------	--

320020-0	Terminal Strip, E-10 Female 12 Position 12-18 AWG 26A 380V
----------	---



OZONATORS

ITEM# DESCRIPTION

Economy Ozonators

6-00-0020A 110V, 3Pos & 4Pos Amp Cord
 Length: 14.5" x 4.375"
 Includes: 6 ft. Neoprene tubing,
 check valve & mounting brackets

6-00-0009 220V
 Length: 14.5" x 4.375"
 Includes: 6 ft. Neoprene tubing,
 check valve & mounting brackets
Select plug style below.

6-00-0006MJ 110V , Mini J & J
 6-00-0006S 110V, NEMA
 6-00-0009A* 220V, 4 Position Amp



Specify Cord Type

***Limited to Stock on Hand.**

JED Engineering

ITEM# / MFG#

DESCRIPTION

6-05-0074 / 90-65-18000 JED 103 120V Amp
 6-05-0076 / 90-65-19000 JED 103 240V Amp



4-25-0047 / 90-6510185 Venturi Injector Fits 1/2" or 3/4" Hoses



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or Order Online Free

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OZONE PARTS

ITEM#

DESCRIPTION

6-05-0010

Air Pump with Housing (Bellow) Assembly
Uses: Evolution, Crystal Pure, Spa Butler &
Pool Butler equipment by Ramco, CRL,
Dimension One & Spa Builders



6-05-0039

Air Pump with Housing (Bellow)
Uses: Evolution, Crystal Pure, Spa Butler &
Pool Butler equipment by Ramco, CRL,
Dimension One & Spa Builders



6-05-0045

Dual Air Pump (Apollo)
Assembly (retrofit)
Uses: Evolution, Crystal Pure, Spa Butler &
Pool Butler equipment by Ramco, CRL,
Dimension One & Spa Builders



6-05-0015

Ozone Generator
Uses: Evolution, Crystal Pure, Spa Butler &
Pool Butler equipment by Ramco, CRL,
Dimension One & Spa Builders



ITEM#

DESCRIPTION

6-05-0003

Barb: 1/4" x 1/2" MNPT

6-05-0004

Barb: Brass 1/8" MIPT x .25"

6-05-0005

Barb: 90 Degree Plastic 1/8" FIPT

6-05-0006

Tubing: Ozone Neoprene 3/16"

6-05-0008

Clamp: Air Tubing Plastic

6-05-0013

Check Valve 1/4"

6-05-0014

Diffuser

6-05-0025

Barb: Plastic 1/8" MIPT

6-05-0030

Bulb: Ozone 14"

SD6560-121

6-05-0031

Bulb: Ozone 9"

6-05-0032

Barb: Plastic 1/4" MIPT

ITEM#

DESCRIPTION

6-05-0037

Air Pump: Ozone (Apollo)

6-05-0040

Barb: Brass 1/4" Barb x 1/8" MIPT

6-05-0043

Barb: Brass 1/8" MIPT 3/8" Barb

6-05-0048

Diaphragm: Air Pump (Apollo)

6-05-0049

Bushing: Air Pump (Apollo)

6-05-0037C

Mounting Kit: Air Pump (Apollo)

5-30-0030

Ballast: 110V (for 220V use 2 pieces)

4-25-0054

Mazzei Injector
3/4" Barb x 1/4 Barb Cap

70-20-1109A

Cover Evolution / Crystal Pure Box

70-20-1109B

Control Box Evolution /
Crystal Pure Box

OZONE CORD TYPES



ITEM # 5-50-0025



ITEM # 5-50-0055



ITEM # 5-50-0026A
(Use item #310520.)



ITEM # 5-50-0064

NOTE: Ozone UV bulbs are rated for 10,000 hours. Corona discharge chip is rated 9000 hours. Filtering 4 hours per day equates to yearly replacement.

OZONE PARTS (cont.)



ITEM# / MFG#

DESCRIPTION

6-00-0036 / 52468-01

Ozone Generator
 "What O3 was meant to be."
 120V & 240V applications in a single
 package with Smart Start™ Technology
 and a Plasma Cell™ UV lamp w/6'
 tubing 1/4" check valve.



ITEM# / MFG#

DESCRIPTION

SpaEclipse Corona Discharge Ozone Generators for Residential Spas

Dimensions: 5" x 6" x 2.5"

6-05-0055 / ECS-1RPAM

110V (UR) - AMP cord with 4-pin connector

6-05-0056 / ECS-1RPOZM

110V (UR) - Mini Ozone J&J cord

6-05-0057 / ECS-1RPAM-240/60

220V (UR) - AMP cord with 4-pin connector

6-05-0068 / ECS-1PAM-240/50

240V/50Hz AMP, parts bag included

6-05-0080 / ECS-1RPAM2-DV

Ozone Eclipse Dual Volt AMP Plug

6-05-0082 / ECS-1RPOZM-DV

Ozone Eclipse Dual Volt MJJ



Ultra Violet Ozone Generators for Residential Spas

Dimension: 16" x 2.75" x 2.75"

6-05-0058 / ZO-300RAM

110V (UR) - AMP cord with 4-pin connector

6-05-0059 / ZO-300ROZM

110V (UR) - Mini Ozone J&J cord



Eclipse Corona Discharge Ozone Generators for Residential Spas

6-05-0050 / EC-1-16

Eclipse 1 for 7,000/25,000 gal. 110V (UL)

6-05-0051 / EC-1-26

Eclipse 1 for 7,000/25,000 gal. 220V (UL)

6-05-0077 / 9-0210/1

IU-201 parts bag for the Eclipse 1-4 (multi-speed);
 injector manifold for multi-speed pumps.

6-05-0064 / 9-0210

IU-206 parts bag for the Eclipse 1-4 (standard);
 injector manifold for single-speed pumps.



Accessories

6-05-0060K / 9-0721-01

Renewal kit for the ZO-300/302.
 Includes 9-0362, 5' tubing and a check valve
 Replacement Lamp

6-05-0060 / 9-0362



6-05-0061K / 9-0720-01

Renewal kit for SpaEclipse or CDS once a year.
 Includes CD Chip 5-05-61, 5' of tubing and a check valve.
 Replacement Chip

6-05-0061 / 5-0561



6-05-0069 / 9-0482J

Parts Bag Eclipse

CDS-16 for Spas - 110V (UR/CUR)

6-05-0071 / CDS-16RAM

AMP cord attached, parts bag included

6-05-0073 / CDS-16ROZM

Mini J&J cord attached, parts bag included



TIME CLOCKS

ITEM# / MFG#

3-40-0001 / 1E1020ME1020

DESCRIPTION

Time Clocks - Intermatic (With Bypass Button)

110V, 20Amp, 60Hz, 24 Hour



ITEM# / MFG#

3-40-0002 / PB913MKZ-25-RED

3-40-0003 / PB914N50-ORANGE

3-40-0017 / PB873-RED

3-40-0018 / PB874MK2

3-40-0002B / PB913MKZ-25-BLUE

DESCRIPTION

Time Clocks - Intermatic

110V, 20Amp, 60Hz, 24 Hour, 4 Lug

220V, 20Amp, 60Hz, 24 Hour, 4 Lug

110V, 20Amp, 60Hz, 7 Day, 4 Lug

220V, 20Amp, 60Hz, 7 Day, 4 Lug

110V, 20Amp, 60Hz, 24-Hour, 4 Lug



ITEM#

3-40-0004 / SD6000-510

430080

3-40-0007

430065

3-40-0011

3-40-0012 / SD6560-859

3-40-0010 / FM-1/STUZ-L

430070

DESCRIPTION

Time Clocks - Grasslin

110V, 15AMP, 60Hz, 24 Hour (FM-1/STUZ/60HZ), 5 Lug

220V, 15AMP, 60Hz, 24 Hour (FM-1/STUZ-240V/ 60HZ), 5 Lug

110V, 15AMP, 60Hz, 7 Day, 5 Lug

110V, 15AMP, 60Hz, 24 Hour (Bypass switch on face), 5 Lug

220V, 15AMP, 50Hz, 24 Hour, 5 Lug

220V, 1AMP, 60Hz, 24 Hour Gold Plated, 5 Lug

24V, 24 Hour, TC FM-1/STUZ-L

220V, 15AMP, 60Hz, 24 Hour (Bypass switch on face), 5 Lug



ITEM# / MFG#

3-40-0016 / TA4065

3-40-0020 / TA4066

3-40-0009 / TA4071

3-40-0019 / TA4088

3-40-0034 / TA4074

3-40-0035 / TA4079

3-40-0036 / TA4073

3-40-0038 / TA4150

DESCRIPTION

Time Clocks - Diehl

220V, 24 Hour, SPST, 4 Lug

220V, 7 Day, SPST, 4 Lug

120V, 24 Hour, 4 Lug

110V, 7 Day, 4 Lug

220V, 24 Hour, SPDT, 4 Lug

110V, 24 Hour, SPDT, 5 Lug

120V, 7 day, SPST

24 Hour Mechanical



ITEM# / MFG#

3-40-5001 / TW-PFC

DESCRIPTION

TightWatt™ Pool Timer

- . Switches up to 25 Amps at specified voltage
- . DPST switch
- . Fits all Intermatic cases (with snap-in lock)
- . Enhanced safety with double-insulated terminals & service mode
- . Seasonally adjusts run-time for optimum energy-efficiency



TIME CLOCKS

ITEM# / MFG#

3-40-5000 / 34-0187

DESCRIPTION

120V, 30 minute time delay modules (Pump)



430010 / M521G

120V, 40Amp, 24 Hour, DPST 2HP 120/240VAC
 Reliance - FF-100TC, FF-200TC, FF-300TC



430021

240V, Timer motor for M521G



990200-000

Reliance TC tripper set (Pkg of 10 on / off with screws)



BRETT AQUALINE & BL-40 (NO SELECTOR) TIMER

Pins "OUT" = OFF, Pins "IN" = ON

LEN GORDON & SPA BUILDERS & LENNOVATOR

Pins "OUT" = ON, Pins "IN" = OFF

(Applies to models with Grasslin timer model FM-1 STUZH-L only)

The timer incorporated in this product has the added feature of a manual timer by-pass switch, which will permit manual override of the timer functions. This manual timer by-pass switch must be set in the center position, as shown below, for normal timer operation.



MANUAL TIMER BY-PASS SWITCH

"I" Position (Up) – Timer is **ON**,
 terminals 3 & 4 permanently closed

"L" Position (Center) – Normal timer
 operation.

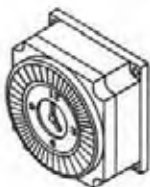
"0" Position (Down) – Timer is **OFF**
 terminals 3 & 5 are permanently closed

TIMERS

Replacement Timer Matrix				
US/Canada 60 Hz Spas				
Year	System	Timer No.	Timer Voltage	Special Instructions
1984	601	6560-865	120 VAC (60 Hz)	Timer Upgrade Kit Required
1985	602			
1986	603	6560-700		N/A
1987	604			
1988 - 1990	605			
	624	6560-859	240 VAC (60 Hz)	
1989	505	6560-700	120 VAC (60 Hz)	
1991	600	430080	240 VAC (60 Hz)	Can Also Use 6560-859
	Suncoast SE			
	Suncoast	3-40-0004	120 VAC (60 Hz)	Can Also Use 6560-700
1992	600-S	3-40-0012	240 VAC (60 Hz)	Same as 400 System
	Suncoast SE			N/A
	Suncoast	6560-700	120 VAC	
		Montego LX	3-40-0012	240 VAC
1993	400	All 240 VAC System		
	600 LED	1 and 2 Pump Systems		
1993 - 1995	Suntub CRL	430080		
1994	600	3-40-0012	120 VAC	1&2 Pump Systems
1994 - 3/96	Suntub	3-40-0004		N/A
1995 - 1996 1/2	Rio	6560-700		
1996 1/2 - 1997 1/2		3-40-0012	240 VAC	
1995 - 1997 1/2	Tango	6560-700	120 VAC	
	400	3-40-0012	240 VAC	All 240 VAC System
	600			1 and 2 Pump Systems
4/96 - Present	Suntub (400) SVDV	6560-700	120 VAC	N/A
Export 50 Hz Spas				
1992-1995	600-650	6560-705	230 VAC (50 Hz)	Export Electronic Timer

All item #'s for Sundance include SD for Allied.

3-40-0004
120 VAC
60Hz
(CRL) Timer



Fits Models
A. 1991
Suncoast
System Only

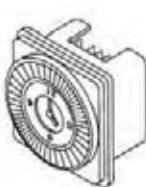
B. 1994 - 3/96
Suntubs

430080
240 VAC
60Hz
(CRL) Timer



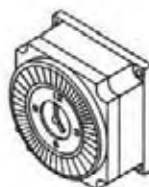
Fits Models:
A. 1991 600
System
B. 1991
Suncoast
SE Systems
On

6560-700
120 VAC
60Hz
Timer



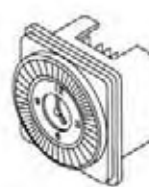
See Chart for
System
Compatibility
Details

6560-705
230 VAC,
50Hz
(CRL) Timer



Fits Models:
1992-1995
Export
50 Hz
600-650
Systems

3-40-0012
240 VAC
60Hz
Timer



See Chart for
System
Compatibility
Details

6560-865
120 VAC 60Hz
Timer
Kit (Complete)



Replaces
Paragon Timer
on 601 and 602
Systems



GECKO LIGHTS & PARTS

COOLRAYS®

ITEM# / MFG#

5-30-7005 / 0299-301003*

DESCRIPTION

COOLRAYS®
 CLS-1-GE1 COOLRAYS
 12 LED Lights



5-30-7005A / 0299-301005

COOLRAYS® 2
 CLS-II-GE1 COOLRAYS
 LED color light system



**Limited to stock on hand.*

ITEM# / MFG#

5-30-6001 / 9920-400178

DESCRIPTION

Cable + Light Socket 8'
 S-MSPA-1-4-TSPA



5-30-6005 / 9920-400251

Cable With Double Socket Light
 S-MSPA-1-4-TSPA

ITEM# / MFG#

5-30-6002 / 9920-400497

DESCRIPTION

Cable Dual Light Sockets 16"
 MTA (MSPA-MP LINE)

5-30-6003 / 9920-400489

Cable Light Socket MTA 3 PIN
 MSPA-MP LINE



ITEM# / MFG#

5-30-6006 / 0101-200013*

DESCRIPTION

EXM-5-AMP - Used To Control
 Fiber Optic Module (Amp Plug)

5-30-6007 / 0101-200018*

EXM-5-JJM- Used To Control
 Fiber optic module (J&J Plug)



**Limited to stock on hand.*

LIGHTS & LIGHT PARTS

ITEM# / MFG# DESCRIPTION

- 5-30-0001 / 3001 Spa Light, 110V/12V
Be-Lite Spa Light w/ power cord, NEMA plug and 12V transformer (6') light pigtail with OEM light kit (2 1/2" plastic wall fitting with color lenses)
- 5-30-0001A / 3003 Spa Light, 110V/12V
Be-Lite Spa Light w/ power cord with 3 and 4 Position AMP Plug and 12V transformer (6') light pigtail with OEM light kit (2 1/2" plastic wall fitting with color lenses)
- 5-30-0033 / 3011 Spa Light with internal air switch
Be-Lite Spa Light w/ power cord with NEMA plug and 12V transformer (6') light pigtail with OEM light kit (2 1/2" plastic wall fitting with color lenses)

Specify Cord Type



- 5-30-0019 Spa Light Bulb
12V, 12 watt bulb, replaces all wedge type bulbs
GE912



- 5-30-0073 Light Pigtail
12V, 6' harness, wedge base socket (push-in style)



- 5-30-0090 Light Pigtail (Be-Lite)
12V, 6' harness, wedge base socket (twist-lock style)



- 5-30-0003 Light Wall Fitting (Be-Lite - OEM kit)
2 1/2" wall fitting with locknut gasket, 2 color lenses (red & blue) and reflector. Replaces item #5-30-5010.

- 5-30-0092 Light Wall Fitting (Be-Lite - OEM kit)
3 1/2" wall fitting with locknut gasket, 2 color lenses (red & blue) and reflector



LIGHTS & LIGHT PARTS

Indicator Lights

ITEM# / MFG#

5-30-0006 / 37-1032
 5-30-0005

DESCRIPTION

110V, Red (1/4" Snap-In)
 110V, Red (15/32" Snap-In)



5-30-0004 / 37-1003
 5-30-0004K

110/220V, Red (5/16" Snap-In)
 110/220V, Red (5/16" Snap-In)



BALBOA

Digital LED color-changing retrofit lamps for portable spas and hot tubs.

ITEM# / MFG#

5-30-0040 / 23138
 5-30-0045 / 22791

DESCRIPTION

22 LED LT Mood EFX Synchronized
 7 LED LT Mood EFX Synchronized



BE-LITE

5-30-0093

Color Lens Set - Be-Lite Lens
 2 1/2 " Light



5-30-0094

Multi-Color Change Light - Be-Lite LED
 10 LED Lights



5-30-0095

Light Reflector 2 1/2" (shown right)

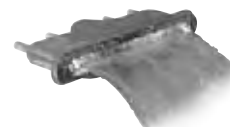
5-30-0096

Light Reflector 3 1/2"



3-90-0130 / 675-4908L

Aqua Fall 8" LED



3-90-0131 / 210-9200

Water Feature Flush Mount LED





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Aqua-Flo • Brett Aqualine ... and Much More!

LIGHT TRANSFORMERS

ITEM# / MFG#

DESCRIPTION

Light / Power Transformer

Replaces 1 & 2 Ampere Light Transformer or

*Power Transformer for Brett Aqualine Digital Controls**

5-30-0022

110/12V, 1 AMP

5-30-0009

220/12V, 1 AMP

5-30-0008

110/12V, 2 AMP*

5-30-0044

220/12V, 2 AMP*

**Limited to stock on hand.*



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PVC FITTINGS & ACCESSORIES

ITEM#	MFG #	DESCRIPTION	*Limited to stock on hand.
4-10-0001-A*	406-005	ELBOW: .5 90° SXS	
4-10-0001-B*	406-007	ELBOW: .75 90° SXS	
4-10-0001-C	406-010	ELBOW: 1 90° SXS	
4-10-0001-E	406-015	ELBOW: 1.5 90° SXS	
4-10-0001-F	406-020	ELBOW: 2 90° SXS	
4-10-0002-C*	409-010	ELBOW: STREET 90° 1 S X 1 SPG	
4-10-0002-E	409-015	ELBOW: STREET 90° 1.5 S X 1.5 SPG	
4-10-0002-F	409-020	ELBOW: STREET 90° 2 S X 2 SPG	
4-10-0092-E*	410-015	ELBOW: 90° STREET 1.5 MIPT X 1.5 S	
4-10-0092-F	410-020	ELBOW: 90° STREET 2 MIPT X 2 S	
4-10-0003-A*	417-005	ELBOW: 45° .5 S X S	
4-10-0003-B*	417-007	ELBOW: 45° .75 S X S	
4-10-0003-C	417-010	ELBOW: 45° 1 S X S	
4-10-0003-E	417-015	ELBOW: 45° 1.5 S X S	
4-10-0018-B*	423-020	ELBOW: 45° STREET ELL 2 S X 2 SPG	
4-10-0094	417-020	ELBOW: 45° 2 S X 2 S	
4-10-0004-A*	401-005	TEE: .5 SXSXS	
4-10-0004-B	401-007	TEE: .75 SXSXS	
4-10-0004-C	401-010	TEE: 1 SXSXS	
4-10-0004-E	401-015	TEE: 1.5 SXSXS	
4-10-0004-F	401-020	TEE: 2 SXSXS	
4-10-0005-B	402-211	TEE: 1.5 S X 1.5 S X 1 S	
4-10-0054*	401-247	TEE: 2 S X 2 S X .5 S	
4-10-0054-A*	401-210	TEE: 1.5 S X 1.5 S X .75 S	
4-10-0005-C	402-199	TEE: 1.5 S X 1.5 S X .5 FIPT	
4-10-0055*	402-249	TEE: 2 S X 2 S X 1 FIPT	
4-10-0084*	402-248	TEE: 2 S x 2 S x .75 FIPT	
4-10-0026*	401-133	TEE: BULLHEAD: 1 S X 1 S X 1.5 S	
4-10-0006-B	429-007	COUPLING: .75 S X S	

PVC FITTINGS & ACCESSORIES

ITEM#	MFG #	DESCRIPTION
4-10-0006-C*	429-010	COUPLING: 1 S X S
4-10-0006-E	429-015	COUPLING: 1.5 S X S
4-10-0006-F	429-020	COUPLING: 2 S X S (shown)
4-10-0007-E	435-015	ADAPTER: FEMALE 1.5 S X FIPT
4-10-0008-A	436-005	ADAPTER: MALE .5 S X MIPT
4-10-0008-E*	436-015	ADAPTER: MALE 1.5 S X MIPT
4-10-0009-C*	447-010	CAP: 1 S
4-10-0009-E	447-015	CAP: 1.5 S
4-10-0009-F	447-020	CAP: 2 S
4-10-0057-A	450-007	PLUG .75 THRD HOLLOW
4-10-0057-B	450-005	PLUG: .5 THRD HOLLOW
4-10-0011-A	439-168	BUSHING: RED 1.25 MIPT X 1 FIPT
4-10-0011-B*	439-250	BUSHING: RED 2 MIPT X 1.25 FIPT
4-10-0011-C*	439-249	BUSHING: RED 2 MIPT X 1 FIPT
4-10-0013-A*	437-209	BUSHING: 1.5 SPG X .5 S
4-10-0013-B	437-211	BUSHING: 1.5 SPG X 1 S
4-10-0013-D	437-249	BUSHING: 2 SPG X 1 S
4-10-0013-E*	437-250	BUSHING: 2 SPG X 1.25 S
4-10-0013-F	437-251	BUSHING: 2 SPG X 1.5 S
4-10-0013-G*	437-248	BUSHING: 2 SPG X .75 S
4-10-0013-I	437-101	BUSHING: 1 SPG X .5 S
4-10-0014-B	438-211	BUSHING: 1.5 S X 1 FIPT
4-10-0014-D	438-249	BUSHING: 2 S X 1 FIPT
4-10-0014-E*	438-251	BUSHING: 2 S X 1.5 FIPT
4-10-0014-F*	438-210	BUSHING: 1.5 S X .75 FIPT
4-10-0014-G	438-250	BUSHING: 2 S X 1.25 FIPT
4-10-0014-H*	438-248	BUSHING: 2 S X .75 FIPT
4-10-0014-I	438-247	BUSHING: 2 S X .5 FIPT
4-10-0014-J	438-130	BUSHING: 1 S X .5 FIPT
4-10-0025*	413-4160	120° WYE 1 S X 1 S X 1 S
4-10-0034	413-5080	120° WYE 2 S X 2 S X 2 S

*Limited to stock on hand.



PVC FITTINGS & ACCESSORIES

AQUATEMP

ITEM#	MFG #	DESCRIPTION
4-10-1020*	86-02001	UNION RADIUS 1.5 S CRL020 BLOWER
4-10-1021*	86-02002	WALL RADIUS 1.5 CRL021 BLOWER
4-10-1022*	86-02003	RADIUS WASHER 1.5 CRL022 BLOWER

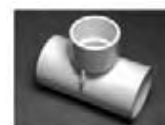
*Limited to stock on hand



FITTINGS / PVC



ITEM#	MFG #	DESCRIPTION
4-10-0019*	411-4050	ELBOW:90° ELL 1.5 X1.5 X 1S SIDE OUTLET
4-10-0020*	411-4060	ELBOW:ST 1.5 X 1.5 X .5 FIPT
4-10-0018	411-4040	ELBOW: 45° STREET ELL 1.5 Sx 1.5 SPG
4-10-0027*	413-4000	TEE 1.5 S X 1.5 S X 1.5 SPG
4-10-0028*	413-4010	TEE 1.5 S X 1.5 S X 1.5MIPT



4-10-1237	421-1000	2 SPG X 1.5 SPG Adapter Reducer
4-10-1238	421-5000	2 S x 1.5S Bell Reducer



4-10-0029	423-4000	NIPPLE 1.5 SPG X 1.5 MIPT
4-10-0067*		NIPPLE 2 MIPT X 2 MIPT X 6 L



4-10-0010-A	715-0000	PLUG .5 SPG
4-10-0010-B	715-9890	PLUG .75 SPG
4-10-0010-C	715-2000	PLUG 1 SPG
4-10-0010-E	715-4000	PLUG 1.5 SPG
4-10-0010-F	715-9880	PLUG 2 SPG



PVC FITTINGS & ACCESSORIES

WATERWAY (continued)

ITEM# / MFG#	DESCRIPTION
4-10-1231 / 715-9860	Plug Barb 3/4"
4-10-1233 / 715-9870	Plug Barb 3/8"
4-10-1232 / 715-9850	3/8" Hose Plug



LASCO

ITEM# / MFG#	DESCRIPTION
4-10-0012 / 437-291	Bushing 2-1/2" X 1-1/2"



MAGIC PLASTICS

ITEM #	MFG #	DESCRIPTION
4-10-1234	0301-05	.5 Magicmend Pipe Extender
4-10-1235	0301-07	.75 Magicmend Pipe Extender
4-10-1236	0301-10	1 Magicmend Pipe Extender
4-10-1217	0301-12	1.25 Magicmend Pipe Extender
4-10-1218	0301-15	1.5 Magicmend Pipe Extender
4-10-1219	0301-20	2 Magicmend Pipe Extender
4-10-1220	0302-10	1 Magicmend Inside Connector
4-10-1221	0302-15	1.5 Magicmend Inside Connector
4-10-1222	0302-20	2 Magicmend Inside Connector
4-10-1223	0303-15	1.5 Magicmend Extender
4-10-1224	0303-20	2 Magicmend Extender
4-10-1228	0301-30	FTG 3" Magicmend Extender (shown right)
4-10-1229	0301-25	FTG 2.5" Magicmend Extender
4-10-1230	0301-40	FTG 4" Magicmend Extender



PLUMBING FITTING DESCRIPTIONS

Couplings



"S" = Slip Ends
Joins Two Pipes



"T" = Threaded Female Ends
Joins Two Threaded Pipes

Elbows

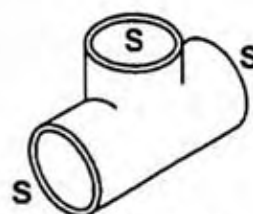


"SP" = Spigot End
 "S" = Slip End
 Reduces Larger Fitting to
 Smaller Glue-in Slip Joint



"S" = Slip Ends
Joins Two Pipes

Tees



"S" = Slip Ends
Joins Three Pipes

Check Valves



"S" = Slip Ends
Joins two Rigid/Flex Pipes

Reducers



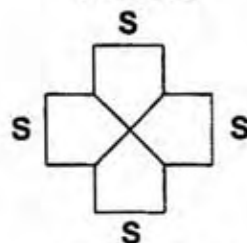
"SP" = Spigot End
 "S" = Slip End
 Reduces Larger Fitting to
 Smaller Glue-in Slip Joint

Adapters



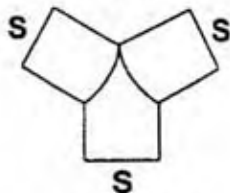
"B" = Hose Barb End
 "SP" = Spigot End
 Joins Flexible Hose to Glue-in
 Pipe Fitting Joint

Crosses



"S" = Slip Ends
Joins Four Rigid/Flex Pipes

Wyes

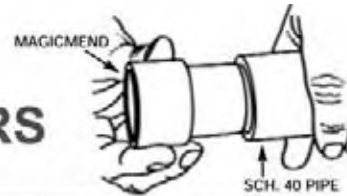


"S" = Slip Ends
Joins Three Rigid/Flex Pipes

PVC FITTINGS & ACCESSORIES



MAGICMEND PIPE EXTENDERS



DESCRIPTION	PART NUMBER	IPS SIZE	QTY CASE	WT CASE	LIST PRICE
MAGICMEND PIPE EXTENDERS 	0301-05	1/2"	48	2	1.05
	0301-07	3/4"	48	2	1.74
	0301-10	1"	48	3	2.19
	0301-12	1 1/2"	48	5	2.63
	0301-15	1 1/2"	48	5	3.00
	0301-20	2"	48	8	3.32

Slips inside Schedule 40 pipe.

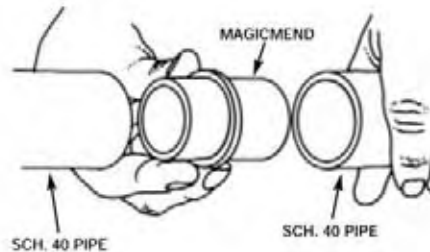
DESCRIPTION	PART NUMBER	IPS SIZE	QTY CASE	WT CASE	LIST PRICE
MAGICMEND PIPE EXTENDERS 	0301-25	2 1/2"	48	18	3.95
	0301-30	3"	48	22	4.56
	0301-40	4"	48	36	5.37



MAGICMEND INSIDER CONNECTORS

DESCRIPTION	PART NUMBER	IPS SIZE	QTY CASE	WT CASE	LIST PRICE
MAGICMEND INSIDER CONNECTORS 	0302-10	1"	48	3	2.19
	0302-15	1 1/2"	48	6	3.00
	0302-20	2"	48	9	3.32

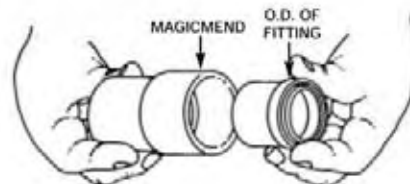
Connects Schedule 40 pipe.



MAGICMEND EXTENDER FITTINGS

DESCRIPTION	PART NUMBER	IPS SIZE	QTY CASE	WT CASE	LIST PRICE
MAGICMEND EXTENDER FITTINGS 	0303-15	1 1/2"	48	11	4.16
	0303-20	2"	48	15	4.16

Fits over 1 1/2" or 2" fittings.



PVC FITTINGS & ACCESSORIES

ITEM# / MFG#

DESCRIPTION

8-05-0008 / 630
 8-05-0009 / 631

Magic Lube
 1 oz. Tube
 5 oz. Tube



8-05-0010 / 872-2291
 8-05-0011 / 872-2160

Clamps
 3/8" OD
 3/4" OD



8-05-0012 / 872-2110
 8-05-0013 / 872-2100
 8-05-0014 / 872-2140
 8-05-0015 / 872-2150

Tubing (*Sold per foot*)
 1/8" - 1/8"ID X 1/4"OD
 1/4" - 1/4"ID X 3/8" OD
 3/8" - 3/8"ID X 1/2"OD
 3/4" - 3/4"ID X 1"OD



TECHNICAL NOTE:

PVC Pipe Size	Outside Diameter	Circumference
1/2"	0.840"	2.639"
3/4"	1.050"	3.299"
1"	1.315"	4.131"
1 1/2"	1.900"	5.969"
2"	2.375"	7.461"
2 1/2"	2.875"	9.032"

Slip or S = a regular hub- pipe glues into this (has same i.d. as coupling)
 Spigot or SPG = the same size as pipe- will glue into another fitting
 MIPT/MIPS = threads on outside of fitting
 FIPT/FIPS = threads on inside of fitting



PLUMBING MANIFOLDS

ITEM #	MFG #	DESCRIPTION	
4-20-0071	672-4260	Manifold 6 Port End Style 2 S X .75 S	
4-20-0112	672-4120	Manifold 6 Port End Style 1.5 S X .5 S	
4-20-0072	672-4390	Manifold 5 Port End Style 2 S X 1 S	
4-20-0073	672-4620	Manifold 4 Port End Style 1.5 S X 1 S	
4-20-0074	672-4380	Manifold 5 Port End Style 1 S X .5 S	
4-20-0075	672-4550	Manifold 6 Port Flo Thru 1.5 S / 2 SPG X 2 S X 1 S	
4-20-0076	672-4630	Manifold 10 Port Flo Thru 1.5 SPG X 1.5 S X .5 S w/4plugs #4-10-0010-A	
			
4-20-0077	672-4640	Manifold 8 Port Flo Thru 1.5 SPG X 1.5 S X .75 S w/4plugs #4-10-0010-B	
4-20-0078	672-4270	Manifold 6 Port Flo Thru 2 S X 2 S X .75 S	
4-20-0079	672-4190	Manifold 4 Port Flo Thru 1.5 SPG X 1.5 S X .75 S	
4-20-0080	672-4000	Manifold 4 Port Flo Thru 2 S X 2 SPG .75 S	



PLUMBING MANIFOLDS

ITEM# / MFG#		DESCRIPTION	
4-20-0082	425-5040	Manifold 4 Port Flo Thru 2S X 2 SPG X .375 Ribbed Barb	
4-20-0083	425-4000	Manifold 6 Port Flo Thru 1.5 SPG X 1.5 S X .375 Ribbed Barb	
4-20-0084	425-5060	Manifold 6 Port Flo Thru 2 S X 2 SPG X .75 Ribbed Barb	
4-20-0085	672-4340	Manifold 8 Port Flo Thru 1 S X 1 SPG X .375 Ribbed Barb	
4-20-0086	672-4160	Manifold 4 Port Flo Thru 2 S X 2 SPG X .75 Smooth Barb	
4-20-0087	672-4150	Manifold 4 Port Flo Thru 1.5 S X 1.5 SPG X .75 Smooth Barb	
4-20-0107	672-4140	Manifold 4 Port Flo Thru 1.5 S X 1.5 S X .75 Smooth Barb	
4-20-0088	672-4660	Manifold 10 Port Flo Thru 1.5 SPG X 1.5 S X .375 S W/4plugs	
4-20-0089	672-4680	Manifold 10 Port Flo Thru 1.5 SPG X 1.5 S X .75 Smooth Barb	
4-20-0090	672-4370	Manifold 8 Port Flo Thru 1 S X 1 SPG X 1 SPG .375 Smooth Barb w/4 Plugs	
4-20-0091	672-4690	Manifold 6 Port Flo Thru .5 S X .5 S w/1 Plug X .375 Smooth Barb w/2 Plugs	
4-20-0110	672-7120	Manifold 6 Port Flo Thru 2 S X 2 S X .75 Ribbed Barb	
4-20-0111	672-7140	Manifold 4 port Flo Thru 2 S X 2 SPG X .75 Ribbed Barb	
4-40-0126	672-7190	Air Manifold - Cut To Fit 2-4-6 Port .75 Ribbed Barb X .375 Smooth Barb	



BARB ADAPTERS

ITEM# / MFG#
4-20-0092 / 413-1900

DESCRIPTION
Tee .375 Smooth Barb



4-20-0093 / 413-1800

Tee .75 Smooth Barb



4-20-0094 / 425-4020

Coupler .25 X .375 Ribbed Barb



4-20-0095 / 419-1000

Coupler .375 X .375 Ribbed Barb



4-20-0096 / 411-3500

Elbow 90° .5 SPG X .75 Ribbed Barb



4-20-0097 / 425-1010

Adapter 1 SPG / .75 S X 1 Ribbed Barb



4-20-0098 / 425-1020

Adapter .5 S / .75 S X .75 SPG X 1 Ribbed Barb



4-20-0099 / 425-0210

Adapter .5 SPG X .375 Ribbed Barb



4-20-0100 / 425-5010

Adapter 1 SPG X .375 Ribbed Barb



4-20-0101 / 425-1000

Adapter .5 SPG X .75 Ribbed Barb



4-20-0102 / 672-4320

Adapter 1 S / 1.25 SPG X .75 Ribbed Barb

4-20-0103 / 672-4310

Adapter .75 S / 1 SPG X .75 Ribbed Barb



4-20-0104 / 413-4360

Adapter 1.5 SPG X .75 Smooth Barb

4-20-0105 / 413-4510

Adapter 2 SPG X .75 Ribbed Barb



4-20-0106 / 672-4350

Adapter .25 MIPT X .375 Ribbed Barb



4-20-0108/425-1030

Barb Adapter .5"S/ .75" SPG x .75" Ribbed Barb



ADAPTERS

MAGIC PLASTICS

ITEM#	MFG#	DESCRIPTION
4-10-1225	0203-001	.75 MIPT Hose Bibb Cap W/ Gasket
4-10-1226	0203-07	.75 MIPT Hose Bibb
4-10-1227	0203-05	.5 MIPT Hose Bibb



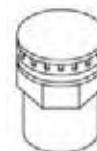
AIR INJECTORS

ITEM #	MFG #	DESCRIPTION
4-25-0001		Injector: Air 1x1
4-25-0003		Injector: Air 3/4 SPG X 1/2 S
4-25-0051	670-2140SE	Injector: Air 1/4 Barb
4-25-0052	670-2300	Injector: Air 3/8 Bell Style White
4-25-0011	916-1250	*Escutcheon: Stainless Steel
4-25-0012	216-9880	*Escutcheon: SST Air Injector



HYDRO AIR

ITEM #	MFG #	DESCRIPTION
4-25-0130	11 9200	Air Injector Assy
4-25-0132	11 9238	Air Injector Assy .375 Barb



WATERWAY

4-20-0050	670-2130	Air Injector New Style Assy (replaces #4-20-0051)	Photo Unavailable
4-25-0050	670-2320	Air Injector 1" Tee Top-Flow	
4-25-0112	670-2607	Air Injector 3/8" SB Gray (shown right)	
4-25-0114	212-1800	Air Injector 3/8" Barb, Air Bleed Assembly	



*Limited to stock on hand.

GATE VALVE ASSEMBLIES (*continued*)

MAGIC PLASTICS

ITEM #	MFG #	DESCRIPTION
4-25-0048	0101-20	Gate Valve Assy 2 S X S 3 Pc
4-25-0049	0412-20	Gate Valve Assy 2 Slip x 2 Spg
4-25-0060	0101-15	Gate Valve Assy 1.5 S X S 3 Pc
4-25-0061	0401-15	Gate Valve Assy 1.5 S X S Uni-body Valve
4-25-0062	0401-20	Gate Valve Assy 2 S X S Uni-body Valve
4-25-0063	0516-15	Gate Valve Assy 1.5 S X Slip Union Uni-body
4-25-0064	0516-20	Gate Valve Assy 2 S X Slip Union Uni-body
4-25-0065	90101000	Gate Valve: Valve Handle For 1.5 & 2 3pc
4-25-0066	90102000	Gate Valve: Valve Handle For 1.5 & 2 Uni-body
4-25-0067	0080301015-12	Gate Valve Seal 1.5 (Sold Each, 2 Needed)
4-25-0068	0080301020-12	Gate Valve Seal 2 (Sold Each, 2 Needed)



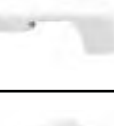
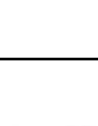
VALTERRA

ITEM #	MFG #	DESCRIPTION
4-25-0055	6101	Gate Valve Assy 1.5 S X 1.5 S 3 Pc
4-25-0056	2101x	Gate Valve Assy 1.5 S X 1.5 S Uni-body
4-25-0057	2102x	Gate Valve Assy 1.5 S X 1.5 Spg Uni-body
4-25-0058	6114	Gate Valve Assy 1.5 S X 1.5 Union Slip 3 Pc
4-25-0059	6216	Gate Valve Assy 2 S X 2 Union Slip 3 Pc



VALVES

HYDRO AIR

ITEM #	MFG #	DESCRIPTION	
4-25-0080	11-4020WHT	Valve Hydroflow 3 Way 1 S Inlet X 1 S Outlet (2) 2.0625 Hole Size	
4-25-0080A	11-4000WHT	Valve Hydroflow 3 Way 2 S Inlet X 2 S Outlet (2) 3.1875 Hole Size	
4-25-0080C	11-4000GRY	Valve 2-3 Way Gray	
4-25-0081	51-4121	Valve 1" Hydroflow Diverter Rotor Insert	
4-25-0082	51-4111	Valve 2" Hydroflow Diverter Rotor Insert	
4-25-0083	31-4023WHT	Valve 1" Hydroflow Cap	
4-25-0084	31-4003WHT	Valve 2" Hydroflow Cap	
4-25-0084G	31-4003GRY	Valve 2" Cap Gray	
4-25-0085	30-127EP70	Valve 1" Hydroflow Stem O-ring	
4-25-0086	30-143EP70	Valve 2" Hydroflow Stem O-ring	
4-25-0087	31-4024WHT	Valve 1" Hydroflow Handle	
4-25-0087A	31-4004WHT	Valve 2" Hydroflow Handle	
4-25-0103	31-4004GRY	Valve 2" Hydroflow Handle Gray	
4-25-0088	10-2200WHT	Valve .5 S Venturi Air Control 1.0625 Hole Size	
4-25-0088BK	10-2200BK	Valve .5 S Venturi Air Control 1.0625 Hole Size	
4-25-0088PC	10-2200PC	Valve 1/2 S Venturi Chrome	
4-25-0089	10-2100WHT	Valve 1 S Venturi Air Control 1.0625 Hole Size	
4-25-0116	10-2155MSN	Valve Slimline Escutcheon Assy Satin Nickel	
4-25-0090	10-2310WHT	Valve 1 S Slimline Venturi Air Control No Handle 1.0625 Hole Size. Also available in Gray.	
4-25-0091	10-2330WHT	Valve 1 S Slimline Tear Drop Air Control 1.0625 Hole Size	

VALVES (continued)

HYDRO AIR

4-25-0092	50-2208WHT	Valve .5" Air Stem Assy Slimline
4-25-0092B	50-2208BON	Valve .5" Air Stem Assy Slimline, Bone
4-25-0093	50-2108WHT	Valve 1" Air Stem Assy Slimline
4-25-0093B	50-2108BON	Valve 1" Air Stem Assy Slimline, Bone



AIR CHECK VALVES

VALTERRA

Designed for Spa Blower Use

ITEM #	MFG #	DESCRIPTION
4-25-0069	400-S	Air Check Valve .25 Lb Tension 1.5 S X 2 S X SPG (Clear)



Replaced by 0830-15C from Magic Plastics or 600-8160 from Waterway.



ITEM #	MFG #	DESCRIPTION
4-25-0070	550-6800	Flapper Check Valve Body 2 Socket X 2 Socket- 2.5 - 8 Lbs
4-25-0010	600-8140	Air Check Valve 1.5 S X 1.5 S, .25 Spring



SUNDANCE

ITEM #	MFG #	DESCRIPTION
SD6540-114	1011-05V	Water Check Valve .50 LB Spring Tension (Flo Control) .5" Slip X .5" Slip



VALVES

ITEM #	MFG #	DESCRIPTION
4-25-0120	872-2310	Ball Valve 1.5" S
4-25-0121	872-2330	Ball Valve 2" S
4-25-0115	400-2060	Valve Assy 1.5" Hose On/Off



SWING / SPRING CHECK VALVES

HYDRO AIR SPRING CHECK VALVES

ITEM #	MFG #	DESCRIPTION
4-25-0106	11 3000	Valve Spring Check Water .25#



MAGIC PLASTICS SWING-SPRING CHECK VALVES

ITEM #	MFG #	DESCRIPTION
4-25-0110	0801-20	Valve 2 S X 2.5 SPG Swing-Spring Check; PVC White 6.625"W X 3.890"H
4-25-0111	0802-20	Valve 2" Magna Check™ Swing Spring; CPVC Black 6.625"W X 3.890"H Reducer Bushings Included. Fits 1.5" S, 2" S, and 2.5" Spg



VALTERRA SWING CHECK VALVES

ITEM #	MFG #	DESCRIPTION
4-25-0071	200-15	Swing Check Valve PVC White 1.5 S X S
4-25-0072	200-C15	Swing Check Valve PVC Clear 1.5 S X S
4-25-0073	200-20	Swing Check Valve PVC White 2 S X S
4-25-0074	200-C20	Swing Check Valve PVC Clear 2 S X S



ADDITIONAL VALVES / ACTUATORS

ITEM # DESCRIPTION

INTERMATIC

4-25-0108	Valve, 3-port CPVC 2"-2 1/2" Pump Diverter
990555-000	Actuator 24V with Toggle Switch



PRAHER

990500-000*	Permaseal, 3-way valve 2 1/2" spigot x 2" slip x 1 1/2" slip
990501-000*	Permaseal, 3-way valve unionize 2" socket end
990550-000*	Actuator 24V with Toggle Switch



**Limited to stock on hand.*

VALVES (continued)

WATERWAY

ITEM #	MFG #	DESCRIPTION
4-25-0075	600-4360	Valve Single Port On/Off 90° 1
4-25-0109	600-4367	Valve Single Port On/Off 90° 1, Gray
4-25-0076	600-4370	Valve Dual Port On/Off 3 Way Vertical 1
4-25-0113	600-4377	Valve Dual Port On/Off 3 Way Vertical 1, Gray
4-25-0077	600-4380	Valve Dual Port On/Off 3 Way Horizontal 1 Under Water
4-25-0078	600-4340	Valve Vertical Diverter 3 Way 1 S Inlet X 1 S Outlet (2)
4-25-0079	600-3060	Valve Vertical Diverter Notch 3 Way 2 S Inlet X 2 S Outlet (2)
4-25-0094	660-3570	Valve 1" Top Access Air Control Notched
4-25-0104	660-3577	Valve 1" Top Access Air Control Notched, Gray
4-25-0095	660-3000	Valve 1 S Deluxe Air Control



MISCELLANEOUS TOOLS

ITEM# / MFG#	DESCRIPTION
5-60-9007 / 30-5843W	Hydro Air Wrench Tool



See Additional Hydro Air Tools on page 213.

UNIONS

AQUA-FLO

ITEM# / MFG#	DESCRIPTION
4-25-0101 / 58301000	Union, Complete (shown right) (2" Sp) 1 1/2" x 1 1/2" S x S
4-25-0102 / 58302000	Union Complete 2" x 2" S x S



HYDRO AIR

ITEM# / MFG#	DESCRIPTION
4-25-0140 / 11-3440	1 1/2" Slip x Slip x 2" Spigot Union (shown right)
4-25-0141 / 11-3460	2" Slip x Slip Union
4-25-0142 / 11-3540	1 1/2" MIP x Slip Union x 2" Spigot



MAGIC PLASTICS

ITEM# / MFG#	DESCRIPTION
4-25-0096 / 0650-20	Union 2" S x S
4-25-0097 / 0650-15	Union 1 1/2" S x S
42-0042	Union, Complete 1 1/2" S x (2" Sp) 1 1/2" S



ITEM#	DESCRIPTION
4-10-0049	Union 1.5 SPG x 1.5 S Butress Thread



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JETS & JET PARTS

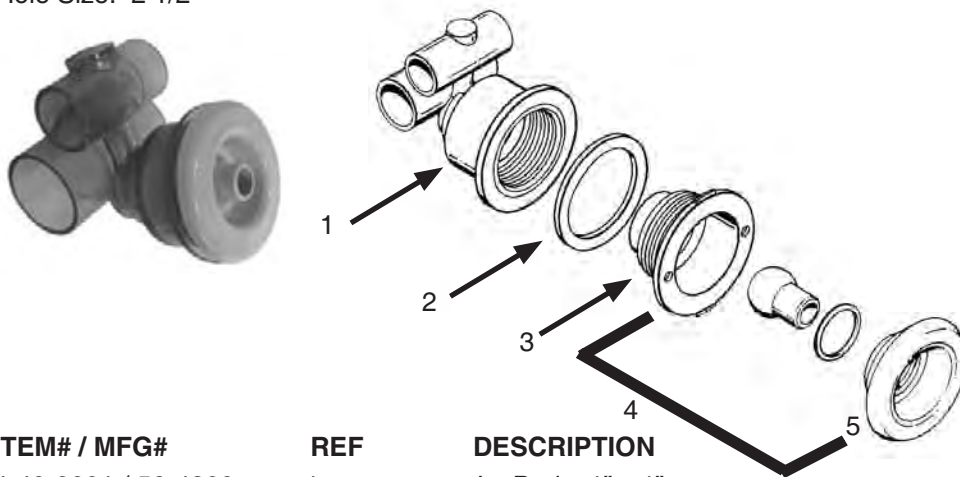
CUSTOM MOLDED PRODUCTS

ITEM# / MFG#	DESCRIPTION	
4-40-0260 / 23534-012	Directional 3" Hurricane Jet Internal Stainless Steel	
4-40-0261 / 23534-032	Pulsator 3" Hurricane Jet Internal Stainless Steel	
4-40-0262 / 23552-012	Directional 5" Hurricane Jet Internal Stainless Steel	
4-40-0263 / 23552-032	Pulsator 5" Hurricane Jet Internal Stainless Steel	
4-40-0264 / 23552-042	Twin Spin 5" Hurricane Jet Internal Stainless Steel	
4-40-0265 / 23501-002	2" Cluster Jet Face Hole Size: 1" Smooth; Stainless Steel	
4-40-0282 / 23530-001	3.5" Jet Internal Smooth; Gray	Photo Unavailable
4-40-0283 / 23430-000	Jet Body 3/4" Barb; 3/8" Barb	Photo Unavailable
3-90-0133 / 25263-007	8" EZ Waterfall •Variable Flow Capacity •Quick Hole Saw Installation •Will accomodate 7 Bulb LED or Single LED Bulb •Hole Size: 1-5/8" •Patent Pending •Available in colors	
4-15-0125 / 258200-219	Suction Assy 200 GPM	

HYDRO AIR JETS & JET PARTS

HYDRO AIR JETS & JET PARTS - CONVERTA'SSAGE

Hole Size: 2 1/2"



JET TOOLS

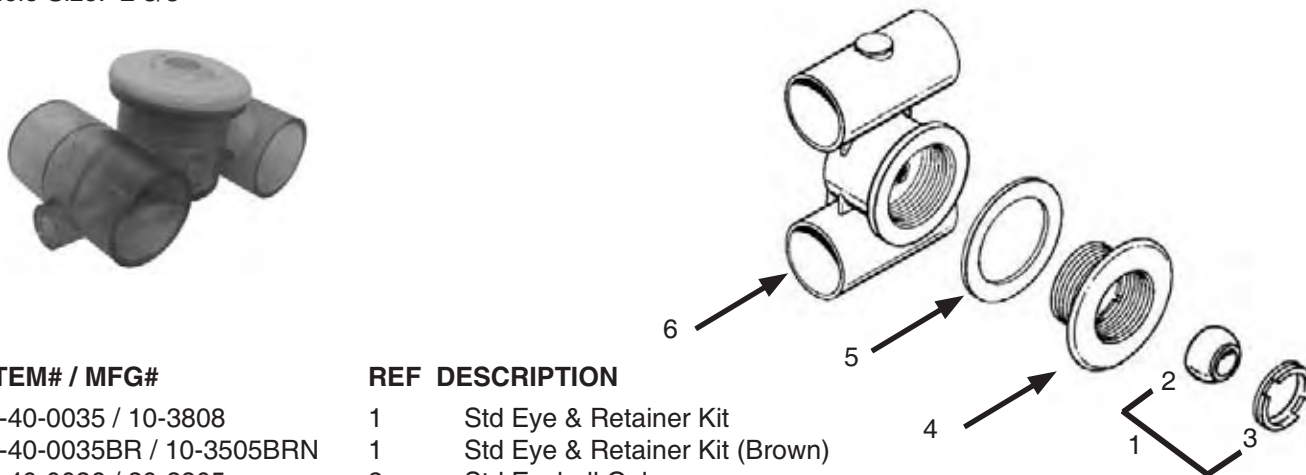


Item #4-40-0175
 Mfg #10-7831M

ITEM# / MFG#	REF	DESCRIPTION
4-40-0001 / 56-4200	1	Jet Body, 1" x 1"
4-40-0002 / 56-4250	1	Jet Body, 1 1/2" x 1"
4-40-0003 / 30-5847	2	Gasket
4-40-0004 / 56-5215	3	Fitting with Bearing for Spas
4-40-0005 / 10-4505	4	Internal, Escutcheon Assembly
4-40-0006 / 10-4555M	5	Stainless Steel Escutcheon - Optional
4-40-0007 / 10-4510		Converta'ssage for Spas, 1 1/2" x 1" (photo shown above)
4-40-0009 / 10-4500		Converta'ssage for Spas, 1" x 1"

HYDRO JET™ 1 1/4" & 2 1/2" Fitting Thread Lengths

Hole Size: 2 3/8"

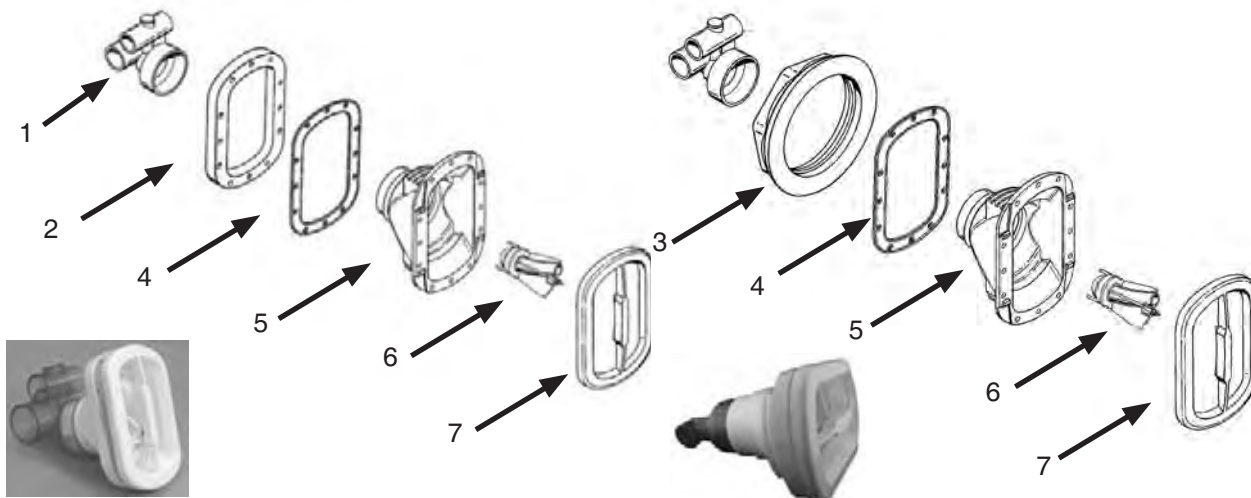


ITEM# / MFG#	REF	DESCRIPTION
4-40-0035 / 10-3808	1	Std Eye & Retainer Kit
4-40-0035BR / 10-3505BRN	1	Std Eye & Retainer Kit (Brown)
4-40-0036 / 30-3805	2	Std Eyeball Only
4-40-0037 / 30-3806	3	Std Retainer
4-40-0038 / 30-3801	4	Std Wall Fitting (1.25" Length)*
4-40-0038BR / 30-3801BRN	4	Std Wall Fitting (1.25" Length)*
4-40-0039 / 30-3803	4	Extended Wall Fitting (2.5" Length)
4-40-0040 / 30-3804	5	Std Gasket
4-40-0041 / 10-4100	6	Std Body 1.5" SA x 1.5" SW
4-40-1508 / 10-5100WHT		1 1/2" x 1 1/2" with 4-40-0038 (photo shown above)
4-40-1509 / 10-5300WHT		1 1/2" x 1 1/2" with 4-40-0039

HYDRO AIR JETS & JET PARTS

HYDRO AIR JETS & JET PARTS - VERTA'SSAGE

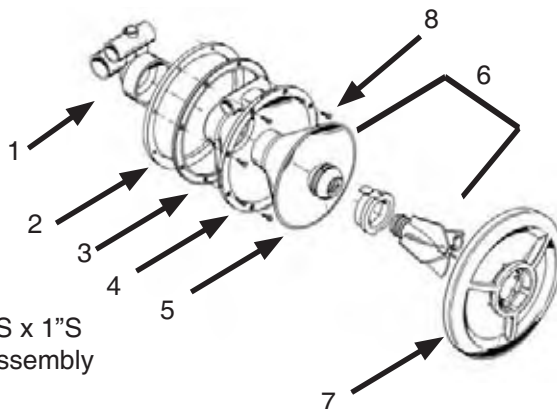
Hole Size: Template Available. Requires 4 3/4" x 7 1/8" flat area.



ITEM# / MFG#	REF	DESCRIPTION
4-40-0150 / 56-4550	1	Jet Body, 1 1/2"S x 1"S
4-40-0151 / 16-5618	2	Backing Plate Assembly
4-40-0152 / 36-5619	3	Locking Nut, Verta'ssage
4-40-0153 / 36-5623	4	Gasket, Backing Plate
4-40-0154 / 36-5620	5	Canister, Verta'ssage
4-40-0155 / 56-5660	6	Flow Path Assembly
4-40-0156 / 56-5612	7	Grill with Bumper
4-40-0157 / 8C150MXPS-B10		Screws, 8-32 x 1 1/2" PH (See Ref 8 below)
4-40-0158 / 16-5650		1 1/2" x 1" Verta'ssage Jet Complete (photo shown above left)
4-40-0159 / 16-5685		1 1/2" x 1" Verta'ssage Jet Complete (photo shown above right)

HYDRO AIR JETS & JET PARTS - THERA'SSAGE

Hole Size: 5 7/8"

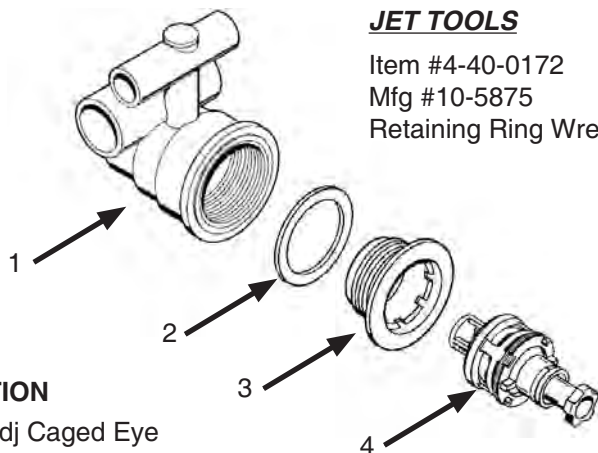


ITEM# / MFG#	REF	DESCRIPTION
4-40-0150 / 56-4550	1	Jet Body, 1 1/2"S x 1"S
4-40-0161 / 56-5522	2	Backing Plate Assembly
4-40-0162 / 36-5523	3	Gasket
4-40-0163 / 36-5520	4	Outer Canister
4-40-0164 / 36-5521	5	Inner Canister
4-40-0165 / 56-5560	6	Flow Path Assembly
4-40-0166 / 56-5513	7	Thera'ssage Grill Assembly
4-40-0157 / 36-5517	8	Screws, 8-32 x 1 1/2" PH
4-40-0167 / 16-5550		Thera'ssage Jet Complete (photo shown above)

HYDRO AIR JETS & JET PARTS

FREEDOM SERIES - CAGED ADJUSTABLE EYE

Hole Size: 2 5/8"



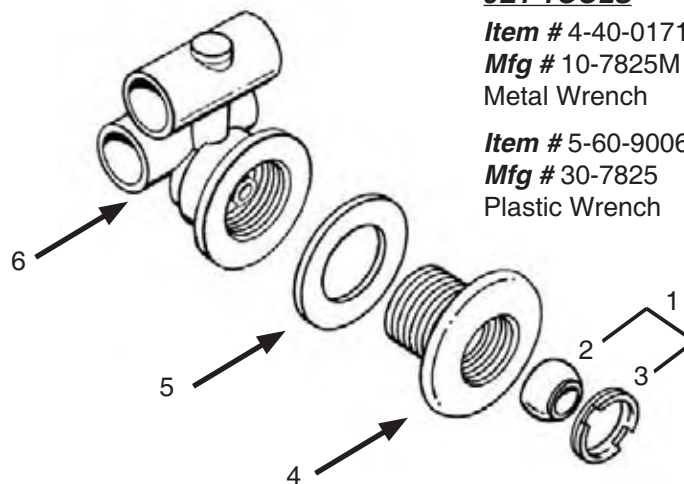
JET TOOLS

Item #4-40-0172
 Mfg #10-5875
 Retaining Ring Wrench

ITEM# / MFG#	REF	DESCRIPTION
4-40-0022 / 10-FS35A	4	Freedom Adj Caged Eye
4-40-0024 / 30-5843S BPL	3	Freedom Adj Caged Eye Wall Fitting
4-40-0025 / 30-5847	2	Freedom Adj Caged Eye Gasket
4-40-0026 / 50-4541	1	Freedom Adj Caged Body 1 1/2" x 1"
4-40-0026A / 50-4545	1	Freedom Adj Caged Body 1" x 1/2"
4-40-0286 / 50-4531	-	Jet 1" x 1" Stacked
4-40-1510 / 10-FS711AC	-	1" x 1" Adj Caged Complete (photo shown above)
4-40-1511 / 10-FS715AC	-	1" x 1 1/2" Adj Caged Complete

MICRO JET ASSEMBLY

Hole Size: 1 11/16"



JET TOOLS

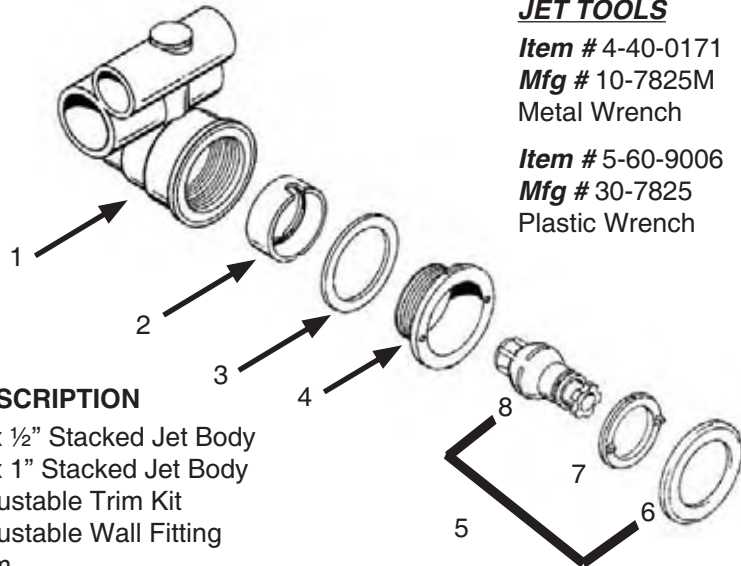
Item # 4-40-0171
 Mfg # 10-7825M
 Metal Wrench

Item # 5-60-9006
 Mfg # 30-7825
 Plastic Wrench

ITEM# / MFG#	REF	DESCRIPTION
4-40-0027 / 10-3710	1	Micro Eyeball and Retainer Kit
4-40-0028 / 30-3703	2	Micro Eyeball Only
4-40-0029 / 30-3704	3	Micro Retainer
4-40-0030 / 30-3701	4	Micro Wall Fitting (1.25" Length)*
4-40-0032 / 30-3705	5	Micro Gasket
4-40-0273 / 50-4200	-	Jet Body with Long Nozzle (Replaced item #4-40-0033)
4-40-0034 / 50-5603	6	Micro Jet Body 1" SA x 1/2"SW
4-40-1506 / 10-5200WHT	-	1" X 1" Micro Jet Complete with 4-40-0030* (photo shown above)

HYDRO AIR JETS & JET PARTS

SLIMLINE SERIES - ADJUSTABLE EYE (Twist Lock)



JET TOOLS

Item # 4-40-0171

Mfg # 10-7825M

Metal Wrench

Item # 5-60-9006

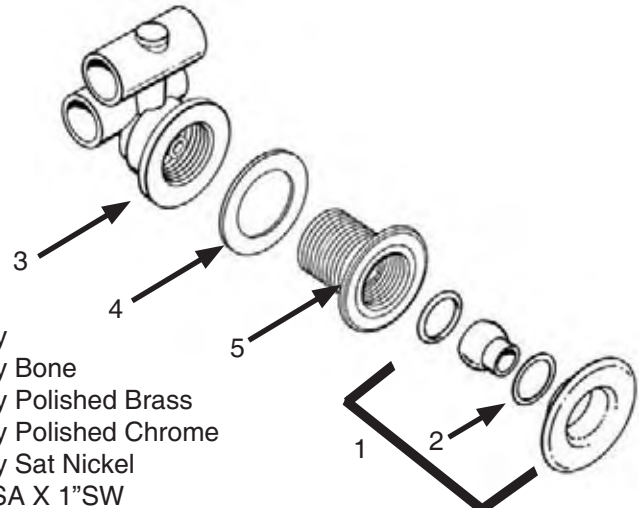
Mfg # 30-7825

Plastic Wrench

ITEM# / MFG#	REF	DESCRIPTION
4-40-0011 / 10-4544	1	1" x 1/2" Stacked Jet Body
4-40-0013 / 10-4548	1	1" x 1" Stacked Jet Body
4-40-0015 / 10-FS00TA	5	Adjustable Trim Kit
4-40-0016 / 30-4532	4	Adjustable Wall Fitting
4-40-0017 / 30-4535	6	Trim
4-40-0018 / 30-5842	7	Retainer
4-40-0019 / 30-5847	3	Adjustable Gasket
4-40-0020 / 50-4534G	2	Drainable Seat Ring
4-40-0021 / 50-5835	8	Adjustable Eye
4-40-0168 / 10-FSB05TA	-	1" x 1/2" Complete Jet
4-40-0169 / 10-FSB11TA	-	1" x 1" Complete Jet (photo not available)

SLIMLINE JET SERIES - 1 1/4" Fitting Thread Length

Hole Size: 1 11/16"

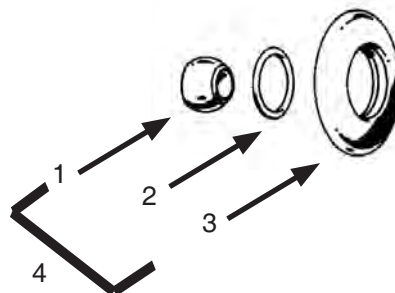


ITEM# / MFG#	REF	DESCRIPTION
4-40-0042 / 10-3955	1	Slimline Esc Assy
4-40-0042B / 10-3955BON	1	Slimline Esc Assy Bone
4-40-0043 / 10-3955M PB	1	Slimline Esc Assy Polished Brass
4-40-0044 / 10-3955M PC	1	Slimline Esc Assy Polished Chrome
4-40-0045 / 10-3955M SN	1	Slimline Esc Assy Sat Nickel
4-40-0047 / 50-4205	3	Slimline Body 1"SA X 1"SW
4-40-0048 / 30-3952	2	Slimline Poly Spacer
4-40-0032 / 30-3705	4	Jet Micro Gasket
4-40-1515 / 30-3901	5	Slimline Wall Fitting 1 1/4"
4-40-1517 / 3-30-3903	5	Slimline Wall Fitting 1 3/4"
4-40-1513 / 10-5480		Slimline 1 x 1, Wall Fitting 2 1/4"
4-40-1504 / 10-5250WHT		Slimline Complete 1 x 1" (photo shown above)
4-40-1505 / 10-5650WHT		Slimline Complete 1 x 1/2"
4-40-1512 / 10-5470WHT		Slimline 1 x 1, Wall Fitting 2 1/4"

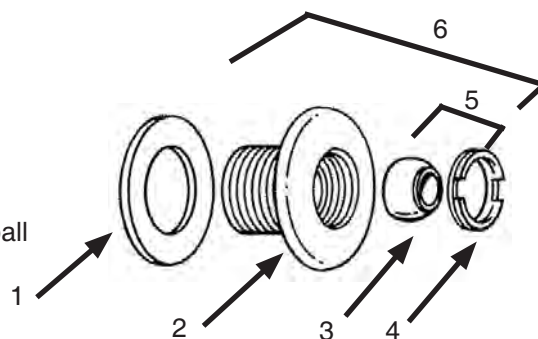
HYDRO AIR JETS

MICRO WALL FITTING ASSEMBLIES

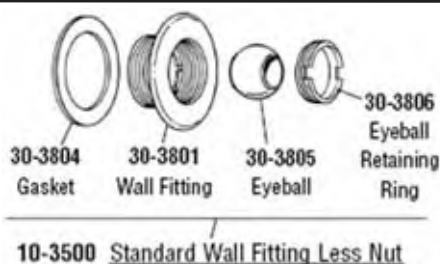
ITEM# / MFG#	REF	DESCRIPTION
4-10-1240 / 10-3751M	1	Metal Micro Eyeball
4-10-1241 / 10-3953	2	O-ring
4-10-1242 / 10-3750M	3	Metal Escutcheon
4-10-1243 / 10-3755M	4	Metal Micro Escutcheon Complete Assembly
4-10-1239 / 10-3755M SN	4	Satin Nickel Escutcheon Complete Assembly



ITEM# / MFG#	REF	DESCRIPTION
4-40-0032 / 30-3705	1	Gasket
4-40-0033 / 30-3701	2	Wall Fitting
4-40-0028 / 30-3703	3	Eyeball
4-40-0029 / 30-3704	4	Eyeball Retaining Ring
4-40-0027 / 10-3710	5	Eyeball and Eyeball Retaining Ring Assembly
4-10-1249 / 10-3700	6	Micro Wall Fitting Assembly Less Nut



ITEM # / MFG #	DESCRIPTION
4-40-0012 / 10-3500WHT	Wall Fitting Standard Less Nut



ITEM # / MFG #	DESCRIPTION
4-40-0014 / 10-3300WHT	Wall Fitting Assembly Standard with Eyeball

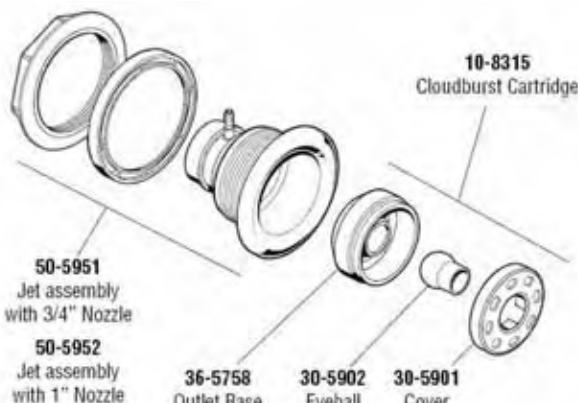


CLOUDBURST JET ASSEMBLY



10-8300 - 3/4" Nozzle
Cloudburst Jet Assy.

ITEM #4-20-0015
10-8310 - 1" Nozzle
Cloudburst Jet Assy.



HYDRO AIR JETS, JET PARTS & TOOLS

ITEM# / MFG#

DESCRIPTION

4-40-0049 / 56-4821

Magna Single Port Roto Assembly



4-40-0050 / 16-4820

Magna Dual Port Roto Assy

4-40-0257 / 16-4820WHT

Magna Dual Port Roto Assy, White



4-40-0051 / 50-4804

Magna Nozzle Assy



4-40-0052 / 16-5230

Micro Grill & Flow Path Assembly



4-40-0218 / 16-4021

Therapy Option Super Micro Magna'ssage



4-40-0256 / 16-5773FP

Rotating Jet Handle Assembly, White



4-40-0053 / 16-5774

Jet Assy Rotating VSR Complete Grey

4-40-0200 / 16-5774WHT

Jet Assy Rotating ADJ VSR White



4-40-1502 / 16-5200

Jet Assy 1" x 1" Microsage

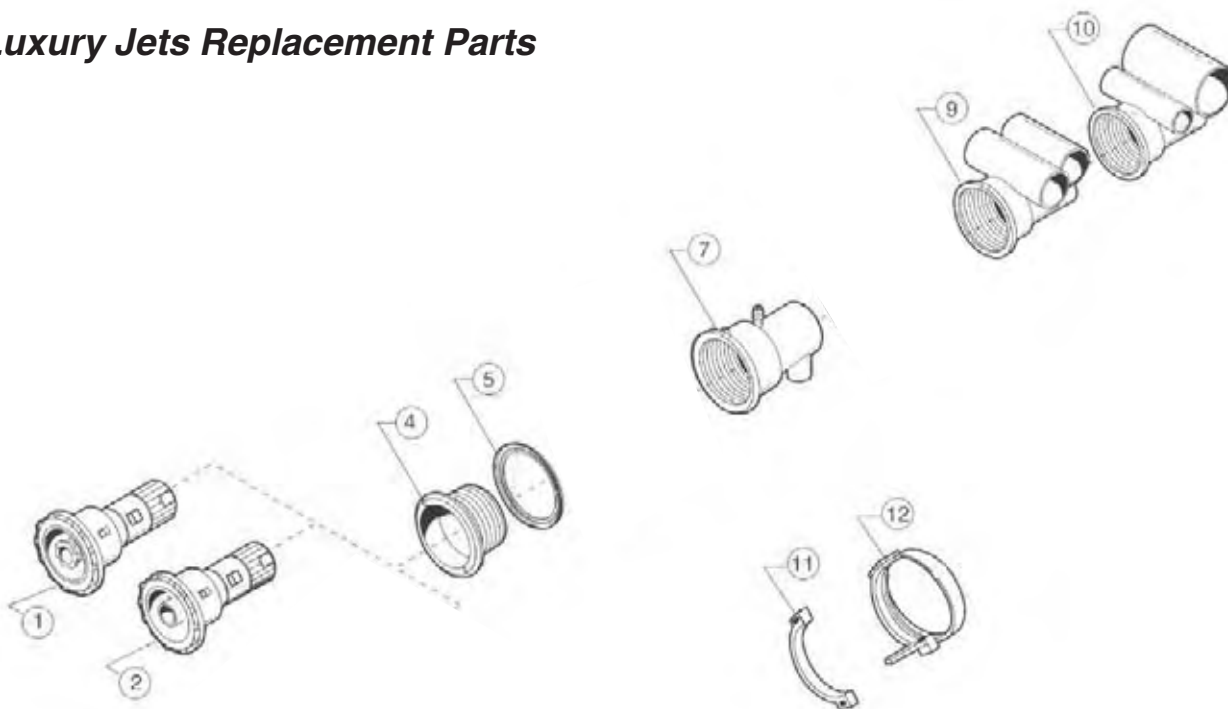
4-40-1503 / 16-5250

Jet Assy 1 1/2" x 1" Microsage



PENTAIR (AMERICAN PRODUCTS) JETS & JET PARTS

Luxury Jets Replacement Parts



ITEM# / MFG#	REF	DESCRIPTION
4-40-0056 / 45271100	N/A	Jet Installation Tool
4-40-0057 / 47074100	1	Luxury Jet
4-40-0059 / 46135500	5	Wall Gasket
4-40-0060 / 945300	5A	Wall Gasket " L "
4-40-0061 / 47062300	11	Snap Ring Pre 1994
4-40-0062 / 47230000	12	Snap Ring After 1994
4-40-0063 / 47065900	7	Body 3/8" Barb X 3/4" Slip
4-40-0064 / 47412600	9	Body 1" Sa X 1" Sw
4-40-0065 / 47412300	10	Body 1/2" Sa X 1 1/2" Sw
4-40-0067 / 47065700	4	Luxury Swirl Wall Flange White
4-40-0066 / 47074000	2	Luxury Swirl Blaster Diamond Cut

ITEM# / MFG#
 4-40-0195 / 474802

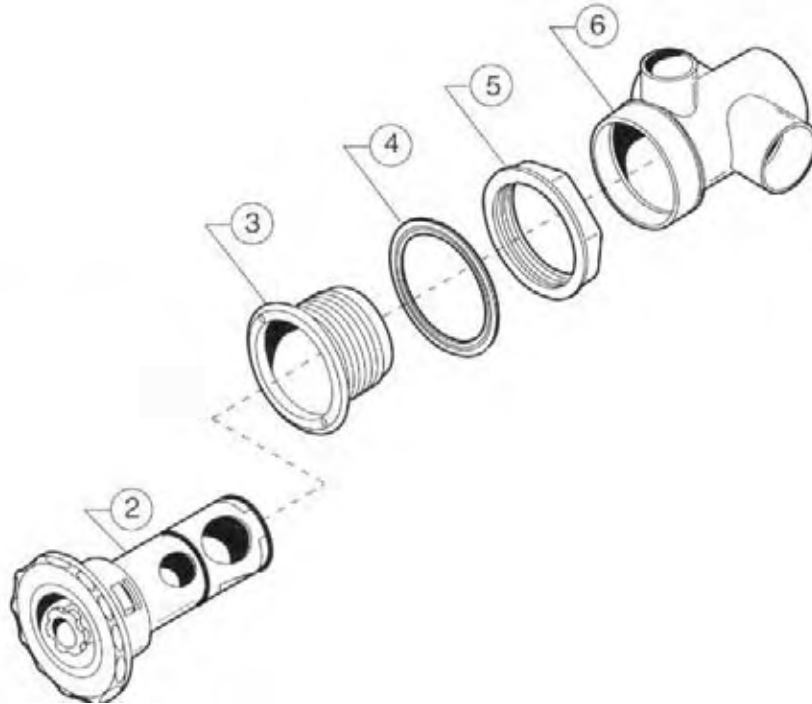
DESCRIPTION
 Luxury Micro Jet Adjust-A-Swirl Insert



PENTAIR (AMERICAN PRODUCTS) JETS & JET PARTS

Diverter Jets Replacement Parts

2 Port, 4.5" Face



ITEM# / MFG#	REF	DESCRIPTION
4-40-0069 / 47241000	2	Barrel 2 Port 1" Nozzle 1" Orifice Diamond Cut
4-40-0070 / 47251300	2	Barrel 2 Port 1" Nozzle 5/8" In Orifice Diamond Cut
4-40-0184 / 46726000	2	Barrel 2 Port Emerald Cut
4-40-0071 / 47221500	3	Flange Wall
4-40-0072 / 47224000	4	Gasket Wall
4-40-0073 / 47228000	5	Nut Wall
4-40-0074 / 47240700	6	Body

For complete jet in "white" (SD6540-295), refer to page 248.



JETS & JET PARTS

ITEM# / MFG#

(Hole Size: 1")

4-40-0075 / 215-9860

4-40-0076 / 212-9870

DESCRIPTION

Ozone Cluster White

Ozone Cluster S/S Escutcheon



4-40-0077 / 212-0590

Ozone Cluster Body 90

3/8" BA x 3/4" SW



4-40-0079 / 711-9870

Ozone Cluster Wall Gasket



Adjustable Mini Jets (Hole Size: 1 3/4")

4-40-0080 / 212-1240

Mini Jet Adjust Internal 5 SCLP

2 5/8" Face



4-40-0081 / 212-1020

Mini Jet Adjust Internal Smooth 2 5/8" Face



4-40-0082 / 224-1000

Mini Jet Adjust Internal DLX 2 5/8" Face

4-40-0143 / 224-1007

Mini Jet Adjust Internal Grey 2 5/8" Face



4-40-0290 / 212-0880

Nozzle Assy 5/16" Mini Jet



4-40-0083 / 222-1050

Mini Jet Adjust Body 90

3/8" BA X 3/4" SW



4-40-0084 / 222-0030

Mini Jet Adjust Body Tee

1" SA x 1" SW



4-40-0085 / 711-0010

Mini Jet Adjust Wall Gasket



4-20-0008 / 218-1010

Mini Jet Wrench, Standard



5-60-9011 / 218-3000

Mini Jet Wrench, Adjustable





JETS & JET PARTS (*continued*)

POLY JETS - *Internals*

ITEM# / MFG# **DESCRIPTION**

Smooth Face (Hole Size: 2 5/8")

4-40-0086 / 210-6100 Direct Smooth

4-40-0087 / 210-6060 Pulse Smooth

4-40-0088 / 210-6120 Roto Smooth

4-40-0089 / 210-6710 Massg Smooth, 3 3/8" Face



Textured 5-Scallop Face

4-40-0090 / 210-6500 Direct 5 Scalloped

4-40-0091 / 210-6520 Pulse 5 Scalloped

4-40-0092 / 210-6510 Roto 5 Scalloped
4-40-0146 / 210-6517 Roto 5 Scalloped, Gray

4-40-0093 / 210-6720 Massg 5 Scalloped



Deluxe Series Adjustable Flow

4-40-0094 / 210-6080 Direct Deluxe, 3 1/2" Face

4-40-0095 / 210-6070 Pulse Deluxe, 3 1/2" Face

4-40-0096 / 210-6090 Roto Deluxe, 3 1/2" Face
4-40-0252 / 210-6097 Roto Deluxe, 3 1/2" Face, Gray

4-40-0097 / 210-6700 Massg Deluxe, 3 1/2" Face





JETS & JET PARTS (continued)

POLY JETS - Body Assemblies & Options

(Hole Size: 2 5/8")

ITEM# / MFG#	DESCRIPTION
4-40-0098 / 210-5830	Tee 1"SA X 1"SW
4-40-0099 / 210-5860	Tee 1"SA X 1.5"SW
4-20-0052 / 210-5960	1/2" S Air x 3/4" S Water
4-40-0100 / 210-5980	90 1/2"SA X 1.5"SW
4-40-0101 / 711-1750	Standard Gasket
4-40-0102 / 218-1770A	Internal Wrench/ Test Plug Combo Fitting
4-40-0251 / 715-0010	Top Air Plug for Poly Jet Body



POLY JETS - Internals & Accessories

(Hole Size: 2 5/8")

ITEM# / MFG#	DESCRIPTION
4-40-0141 / 210-6077	Fixed Pulsator Scalloped, Gray, 3 1/2" Face
4-40-0142 / 210-6087	Fixed Deluxed Scalloped, Gray, 3 1/2" Face



MINI STORM JETS - Internals (Body Assemblies & Accessories)

ITEM# / MFG#	DESCRIPTION
Roto	
4-40-0201 / 212-7910	Jet Mini Int Storm Smooth Roto Hole Size: 2 3/16" Flat Gasket 3" Face
Twin Roto	
4-40-0202 / 212-7940	Jet Mini Int Storm Twin Smooth Hole Size: 3 7/8" Grommet Gasket 3" Face
4-40-0259 / 212-7950	Mini Storm Jet Scalloped





JETS & JET PARTS (continued)

ITEM# / MFG#

DESCRIPTION

4-40-0244 / 711-6900

Mini Storm Jets Grommet Gasket



4-40-0243 / 718-6960

Mini Storm Jets Self Alignment Ring



4-40-0212 / 212-7927

Mini Storm Directional



4-40-0258 / 218-6940

Jet Retainer Ring for Mini Poly Storm



4-40-0277 / 212-7920

Jet Mini Storm Directional, 5 PT Scallop



Poly Storm Jets

ITEM# / MFG#

DESCRIPTION

4-40-0274 / 212-8130

Jet Poly Storm Twin Roto Smooth



4-40-0281 / 212-8170

Jet Poly Storm Twin Roto 5 PT



4-40-0284 / 212-8161

Jet Poly Storm Dir 5 PT Black





JETS & JET PARTS (continued)

Poly Storm Jets

Internals - Body Assemblies & Accessories

Hole Size: 3 3/4" Flat Gasket
 3 7/8" Grommet Gasket

ITEM# / MFG#	DESCRIPTION
4-40-0114 / 212-8040	Direct Smooth, 3 3/8" Face
4-40-0115 / 212-8050	Direct 5 SCLP, 3 3/8" Face
4-40-0116 / 212-8000	Roto Smooth, 3 3/8" Face
4-40-0117 / 212-8010	Roto 5 SCLP, 3 3/8" Face
4-40-0118 / 212-8020	Massg Smooth, 3 3/8" Face
4-40-0118G / 212-8027	Poly Storm Jet Internal, Gray
4-40-0119 / 212-8030	Massg 5 SCLP, 3 3/8" Face
4-40-0120 / 212-0410	Body 3/8" BA X 3/4" SW
4-40-0121 / 212-0420	Body 3/8" RBA X 1/2" S RBW
4-40-0122 / 218-4010	Self Align Ring
4-40-0133 / 212-8017S	Roto Chrome, 3 3/8" Face
4-40-0134 / 212-8017	Roto Gray, 3 3/8" Face
4-40-0240 / 212-0400	Poly Storm Roto Jet 3/4" RB x 3/8" RB
4-40-0241 / 711-4400	Poly Storm Jets Grommet Gasket
4-40-0211 / 212-8127	Poly Storm Twin Roto Internal
4-40-0210 / 212-8057	Poly Storm Internal
6-05-0011 / 218-4000	Poly Storm Jet Diffuser





JETS & JET PARTS (continued)

POWER STORM JETS - Internals

Hole Size: 3 3/4" Flat Gasket
 3 7/8" Grommet Gasket

ITEM# / MFG#

DESCRIPTION

Massage

4-40-0109 / 212-6650

Massg Smooth, 5 " Face

4-40-0110 / 212-7740

Massg 5-Point Scalloped, 5 " Face



POWER STORM JETS - Bodies & Accessories

4-40-0250 / 210-4980

1 1/2" Slip x 1/2" Slip



4-40-0111 / 212-0020

90 3/8"BA X 1"SW

4-40-0112 / 212-0030

90 3/8"BA X 1/2"SW



4-40-0113 / 218-6680

Self Align Ring



Twin Roto

4-40-0145 / 212-7616G

Internal Twin Jet, Gray, 5 " Face



4-40-0191 / 210-7750

Internal Pulsator, Jet Poly

4-40-0191G / 210-7757

Internal Pulsator, Jet Poly Gray



POWER STORM JETS

ITEM# / MFG#

DESCRIPTION

Directional

4-40-0103 / 212-6640

Direct Smooth, 5 " Face



4-40-0104 / 212-7630

Direct 5 Scalloped, 5 " Face



4-40-0247 / 212-7637

Power Storm Directional Jet



Roto

4-40-0105 / 212-6630

Roto Smooth, 5 " Face



4-40-0106 / 212-7600

Roto 5 Scalloped, 5 " Face

4-40-0132 / 212-7600S

Roto Chrome, 5 " Face



Twin Roto

4-40-0107 / 212-6610

Twin Roto Smooth, 5 " Face



4-40-0108 / 212-7610

Twin Roto 5 Scalloped, 5 " Face





JETS & JET PARTS (continued)

LARGE-FACE POWER STORM JETS

ITEM# / MFG#

DESCRIPTION

4-40-0245 / 212-0040

Power Storm Jet
 3/4" RB x 3/8" RB



4-40-0113 / 218-6680

Self-Alignment Ring



4-40-0246 / 711-6500

Grommet Gasket



ADJUSTABLE CLUSTER STORM JETS - *Internals & Body Assemblies*

ITEM# / MFG#

DESCRIPTION

4-40-0237 / 212-1550G

Adjustable Cluster Storm Jet Body
 3/4" RB x 3/8" RB



4-40-0238 / 218-5150

Self-Alignment Ring



4-40-0239 / 212-1547

Adjustable Cluster Storm Jet Directional



4-40-0242 / 212-0340G

Adjustable Direct Mini Jet

Photo
 Unavailable



JETS & JET PARTS (*continued*)

Swim Jets

ITEM# / MFG#

4-40-0123 / 210-7440

DESCRIPTION

Old Faithful Swim Jet 1/2"SA X 2"SW Scalloped
Hole Size: 4 3/4"



Jumbo Storm Jet

ITEM# / MFG#

4-40-0222 / 210-6807

DESCRIPTION

Jumbo Storm Jet whirly - Gray



Aqua Fall - Waterfall Systems

ITEM# / MFG#

4-40-0124 / 675-5000

DESCRIPTION

Aqua Fall 8" White

4-40-0125 / 675-5010F

Aqua Fall 8" White Fiber Optic



ITEM# / MFG#

4-40-0248 / 660-3587

DESCRIPTION

Air Control

4-40-0232 / 212-2067S

Adjustable Whirlpool Internal w/ SS Escutcheon

4-40-0249 / 212-1827

Bulkhead Wall Fitting Grey

3-90-0132 / 675-2000

Waterfall Assy Plastic Pop-Up, 180°



4-40-0008 / 218-6070

Escutcheon White



WATERWAY HOLE SAW SIZES

STORM JETS

Jets - Mini Storm	
Flat Gasket	2 3/16"
Grommet Gasket	2 1/4"
Jets - Poly Storm	
Flat Gasket	2 5/8"
Grommet Gasket	2 11/16"
Jets - Power Storm	
Flat Gasket	3 3/4"
Grommet Gasket	3 7/8"
Jets - Adjustable Cluster Storm	1 1/2"

JETS

Jets - CAD & 180°	2 1/2"
Jets - Euro	1 1/16"
Jets - Fog	9/16"
Jets - Jumbo	5 3/4"
Jets - Jumbo Storm	5 3/4"
Jets - Master Massage	5 3/4"
Jets - Neck	1 3/4"
Jets - Old Faithful	4 3/4"
Jets - Ozone/Cluster	1"
Jets - Poly	2 5/8"
Jets - Power Swim	3 1/2"
Jets - Quad Flo & Dual Flo	3 1/2"
Jets - Self-Draining Bath	1 3/4"
Jets - Standard Mini	1 3/4"
Jets - Swim	3 1/8"
Jets - Versatile	3 1/2"

SUCTIONS

Suctions - Lo Pro & Hi-Flo	
Flat Gasket	2 3/8"
Grommer Gasket	2 1/2"
Suction - Super Hi-Flo	
Flat Gasket	3 1/4"
Grommet Gasket	3 3/8"
Suctions - TWM 250 GPM	
2 1/2" Socket	3 1/2"
3" Socket	4 1/8"

AIR COMPONENTS

Air Bleed	1 5/16"
Air Button	1 1/2"
Air Control - Lo-Pro	1 5/8"
Air Control - 1/2"	1 5/16"
Air Control - 1/2" Top Access	3/4"
Air Injector - Button	3/8"
Air Injector - Lo-Pro	3/4"
Air Injector - Multi-Body	5/8"
Air Injector - Ozone	5/8"
Air Injector - Top Flow	1 3/16"

VALVES

Valves - Diverter - 1" Mini	1 1/4"
Valves - Diverter - 2" Top Access	3 1/4"
Valves - Spa Drain & Fill	1 5/8"
Valves - Turn On / Off	1 1/4"

LIGHTS

Light - 3"	2 5/8"
Light - 5" Jumbo	3 1/4"

SKIMMERS / FILTERS

Skim Filter - Bayonet	6 7/8"
Skim Filter - Dyna-Flo	6 7/8"
Skimmers - Strip	
Flat Gasket	2 3/8"
Grommet Gasket	2 1/2"
Filters - In Line	6 7/8"
Filters - Top Load	6 7/8"

SPECIALITY ITEMS

Aroma Therapy Canister	1 5/8"
Cup Holder	3 3/4"
Fittings - Thru Wall	1 5/16"
Master Massage	5 3/4"
Niche Body	8 3/4"
Power Massage	3 1/2"
Return Fitting	2 5/16"
Thermosensor	1"
Thermowell - Mini	1 3/16"

COLOR REFERENCE

Last Digit of Part Number Designates Color or Metal Finish

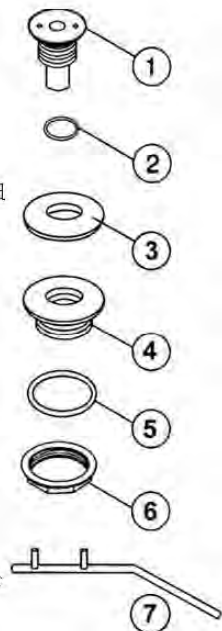
0 = White	3 = Blue (Lights)	7 = Gray
1 = Black	4 = Red (Lights)	8 = Clear
2 = Bone	5 = Red & Blue (Lights)	9 = Call for other colors, metal finishes and special orders.

SUNDANCE PLUMBING

Heater Return/Ozone Jet Assemblies

Heater Return Assembly, 01/1997-2000 (Replaces Isopure wall fitting)

- 1A. 6540-148, Heat return insert (white)*
- 1B. 6540-168, Heat return insert (gray)*
2. 6540-146, O-ring, limited stock
3. 6540-304, Escutcheon, 316SS
- 4A. 6540-136, Heat return wall fitting (white)*
- 4B. 6540-135, Heat return wall fitting (gray)*
5. 6540-509, O-ring
- 6A. 6540-572, Nut, 1.5" (white)*
- 6B. 6540-131, Nut, 1.5" (gray)*, limited stock
7. 6472-010, Wrench for installing/removing heater return wall fitting



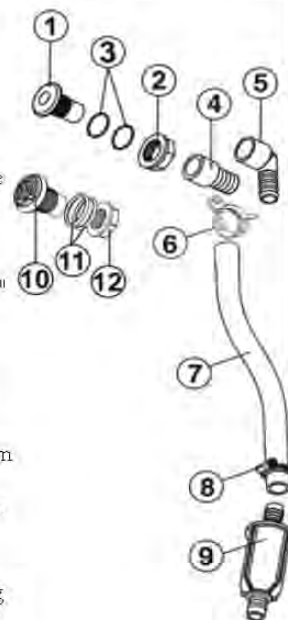
*NOTE: Use all white or all gray parts, for parts 1, 4 and 6, do not mix to ensure compatibility

Ozone Jet Assembly (1995-1996)

- 1A. 6540-699, Jet wall fitting with 316SS escutcheon (gray)
- 1B. 6541-695, Jet wall fitting without escutcheon (gray)
2. 6540-682, O-ring
3. 6540-685, Nut
4. 6540-692, Jetback injector jet (0.34" Orifice)
5. 6540-395, 0.5" Flex pipe

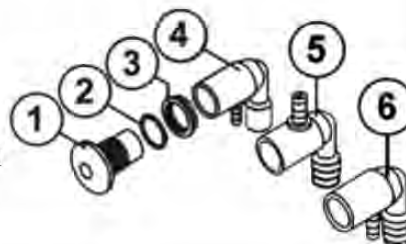
- Heater Return Assembly, All 2004-2005 Models Except Solo (Use Parts 4-9 and 10-12)
- Heater Return Assembly, 2001-03 (Parts 1-9)

- 1A. ~~6540-291~~, Accu-return wall fitting (All 2002-03 models except Solo)
- 1B. 6540-694, Accu-return wall fitting (2002-2005 Solo only)
- 1C. 6540-731, Accu-return wall fitting (All 2001 models), limited stock
2. 6540-685, Accu-pressure nut
3. 6540-682, O-ring (2 required)
4. 6540-065, Adapter, 0.75" Slip x 0.75" Barb (All 2002+ models)
5. 6540-042, 90° Elbow, 0.75" Slip x 0.75" Barb (All 2001 models)
6. 6570-033, Clamp, 27 mm
7. 6540-744, 0.75" Clear hose ordered by the foot)
8. 6570-099, Metal hose clamp
9. ~~6540-727~~, Ozone mixing chamber (All 2002-2004 models except solo)
10. 6540-979, Gravity drain with cover (2004+ models)
11. 6540-682, Gravity drain O-ring (2004+ models)
12. 6540-685, Gravity drain fitting locknut (2004+ models)



Ozone Jet Assembly (2005 780 Series, 2000-2004 Sweetwater and 2003-2005 Del Sol Redondo/Hermosa)

1. 6541-695, Jet wall fitting (gray)
2. 6540-682, O-ring
3. 6540-685, Nut
4. 6540-689, 0.5" Jetback injector jet, 0.34" Orifice (2005 780 Series, 2000-2004 Sweetwater Series)
5. 6540-604, Jetback, 0.75" Barb, 0.34" Orifice (2003-2005 Del Sol Redondo)
6. 6540-601, Jetback, 0.75" Reverse barb, 0.34" Orifice (2003-2005 Del Sol Hermosa)

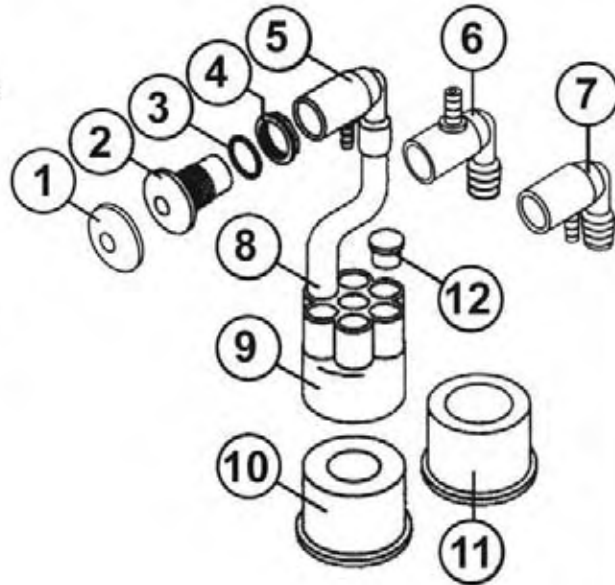


SUNDANCE PLUMBING

Accu-Pressure Jet

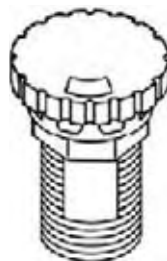
Accu-Pressure Jet (1991-Present)

1. 6000-266, 316SS Escutcheon, Press-On
- 2A. 6541-695, Jet Wall Fitting without Escutcheon (Gray)
- 2B. 6540-699, Jet Wall Fitting with 316SS Escutcheon (Gray)
3. 6540-682, O-Ring
4. 6540-685, Nut
- 5A. 6540-689, 0.5" Jetback Injector Jet, 0.34" Orifice (800 Series)
- 5B. 6540-692, 0.5" Jetback Injector Jet, 0.34" Orifice (Inground-Not Shown)
6. 6540-604, Jetback Injector Jet, 0.75" Barb, 0.34" Orifice
7. 6540-601, Jetback Injector Jet, 0.75" Reverse Barb, 0.34" Orifice
8. 6540-395, Flex Pipe, 0.5"
9. 6540-785, Water Manifold (0.5" Slip Ports)
10. 6540-292, Reducer, 3" Spigot x 1.5" Slip
11. 6540-294, Reducer, 3" Spigot x 2" Slip
12. 6540-786, Plug, 0.5" Spigot (Gray)



SUNDANCE AIR CONTROL - On / Off

- | ITEM # | DESCRIPTION |
|------------|---|
| SD6540-937 | Air Control (Gray)
Fits:
A. Vail (1998-1999)
B. Aspen (1998-1999)
C. Bali (2000+) |
| SD6540-208 | Single Air Control,
1995-1997, (Gray) |

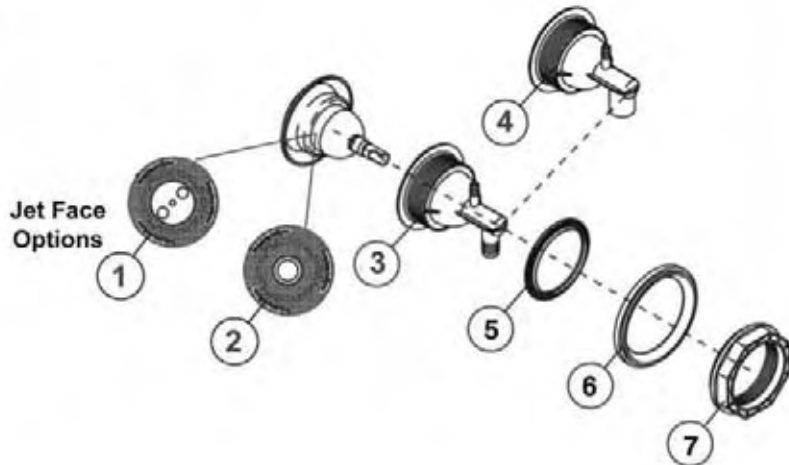


SUNDANCE PLUMBING

Duo-Pulse / Duo-Path Jet

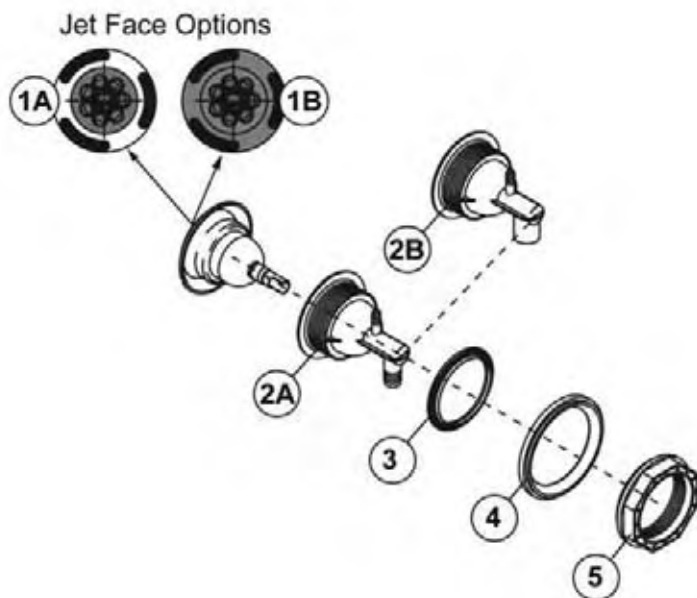
Duo-Pulse Jet (2001+)

1. 6540-319, Dual-Path/
Dual-Pulse Jet Face, Textured/
Gray (Rotating)
2. 6540-317, Intelli-Jet 360 Jet
Face, Textured/Gray, Non-
Rotating (Fits 2001+ Luna/
Tenon Models Only)
3. 6540-299, Jetback, 0.75" Barb
4. 6540-301, Jetback, 0.75" Slip
5. 6540-525, O-Ring, 3.68" I.D.
6. 6540-298, Washer (Self-
Leveling)
7. 6540-297, Nut (Self-Leveling)



Duo-Path Jet (2000+)

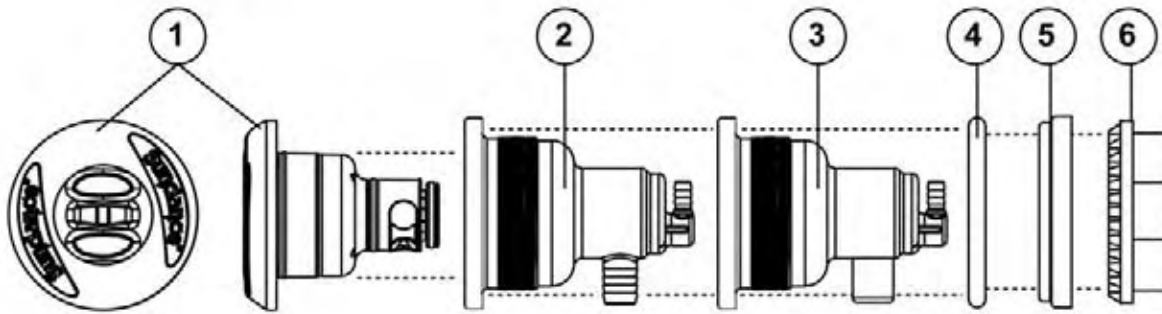
- Jet Face Options
- 1A.-6540-320, Jet Face Assembly with
316SS Escutcheon, Textured/Rotating
(Gray)
 - 1B.-6540-310, Jet Face Assembly without
Escutcheon, Textured/Rotating (Gray)
 - 2A. 6540-299, Jetback, 0.75" Barb
 - 2B. 6540-301, Jetback, 0.75" Slip
 3. 6540-525, O-Ring, 3.68" I.D.
 4. 6540-298, Washer (Self-Leveling)
 5. 6540-297, Nut (Self-Leveling)



SUNDANCE PLUMBING

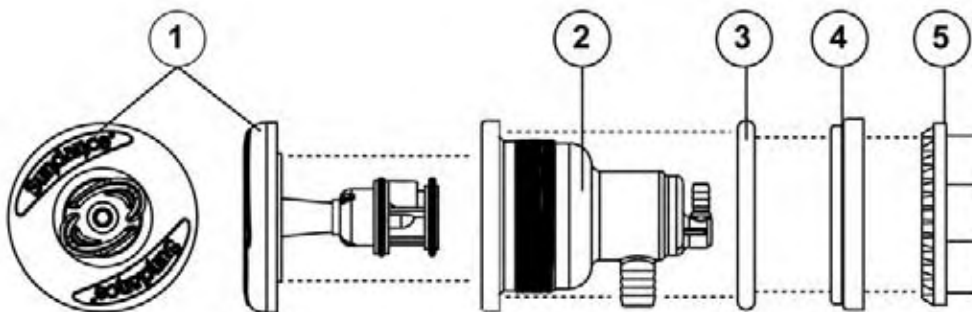
Fluidix Intelli-Jet / Vortex Jet

Fluidix Intelli-Jet (2003+)



- 1A. 6000-315, Fluidix Intelli-Jet Jet Face with 316SS Escutcheon
- 1B. 6540-666, Fluidix Intelli-Jet Face without 316SS Escutcheon
- 2. 6540-667, Fluidix Intelli-Jet Jetback, 0.75" Barb
- 3. 6540-668, Fluidix Intelli-Jet Jetback, 0.5" Slip
- 4. 6540-525, O-Ring, 3.68" I.D.
- 5. 6540-298, Washer (Self-Leveling)
- 6. 6540-297, Nut (Self-Leveling)

Vortex Jet (2003+)



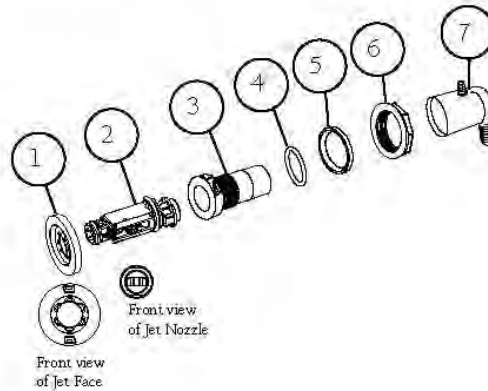
- 1. 6000-310, Vortex Jet Face with 316 SS Escutcheon
- 2. 6540-667, Vortex Jetback, 0.75" Barb
- 3. 6540-525, O-Ring, 3.68" I.D.
- 4. 6540-298, Washer (Self-Leveling)
- 5. 6540-297, Nut (Self-Leveling)

SUNDANCE PLUMBING

Fluidix ST Jet

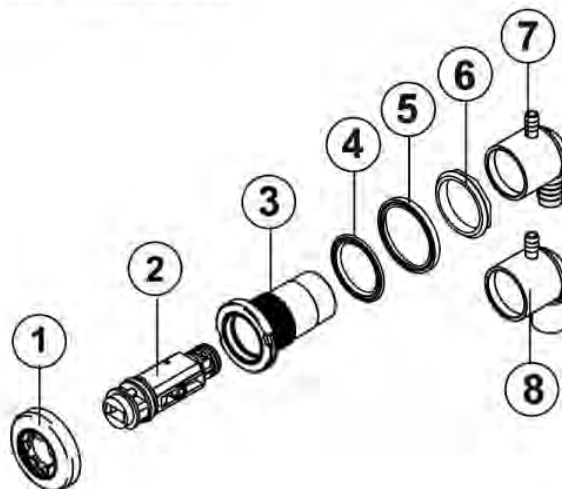
Fluidix ST Jet (2007+)
(Used on 880 Series)

1. 6540-643, Jetface with 316 SS escutcheon
2. 6540-671, Nozzle, Fluidix ST (gray)
3. 6540-642, Jet wall fitting
4. 6540-522, O-ring
5. 6540-639, Washer (Self-leveling)
6. 6540-644, Nut (Self-leveling)
7. 6540-646, Jetback (0.75" Barb)



Fluidix ST Jet (2001+)
(Used on 880 Series 2001-2006)
(Used on Inground Models 2001+)

1. 6540-643, Jetface with 316 SS escutcheon
2. 6540-641, Nozzle, oscillating, limited stock
3. 6540-642, Jet wall fitting
4. 6540-522, O-ring
5. 6540-639, Washer (Self-leveling)
6. 6540-644, Nut (Self-leveling)
7. 6540-646, Jetback (0.75" Barb)
8. 6540-647, Jetback (0.5" Slip)

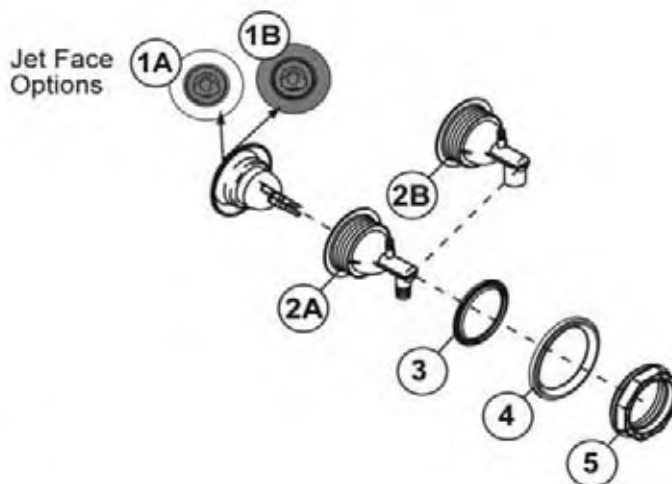


SUNDANCE PLUMBING

Mini-Intelli-Jet / Intelli-Jet

Mini-Intelli-Jet (2000+)

- 1A. 6540-347, Jet Face with 316SS Escutcheon, Textured/Rotating (Gray)
 1B. 6540-344, Jet Face w/o Escutcheon, Textured/Rotating, Gray (Used in Architectural Series Luna/Tenon and various other models)
 2A. 6540-341, Jetback, 0.75" Barb
 2B. 6540-342, Jetback, 0.75" Slip
 3. 6540-333, O-Ring, 2" I.D.
 4. 6540-332, Washer (Self-Leveling) Mini
 5. 6540-334, Nut



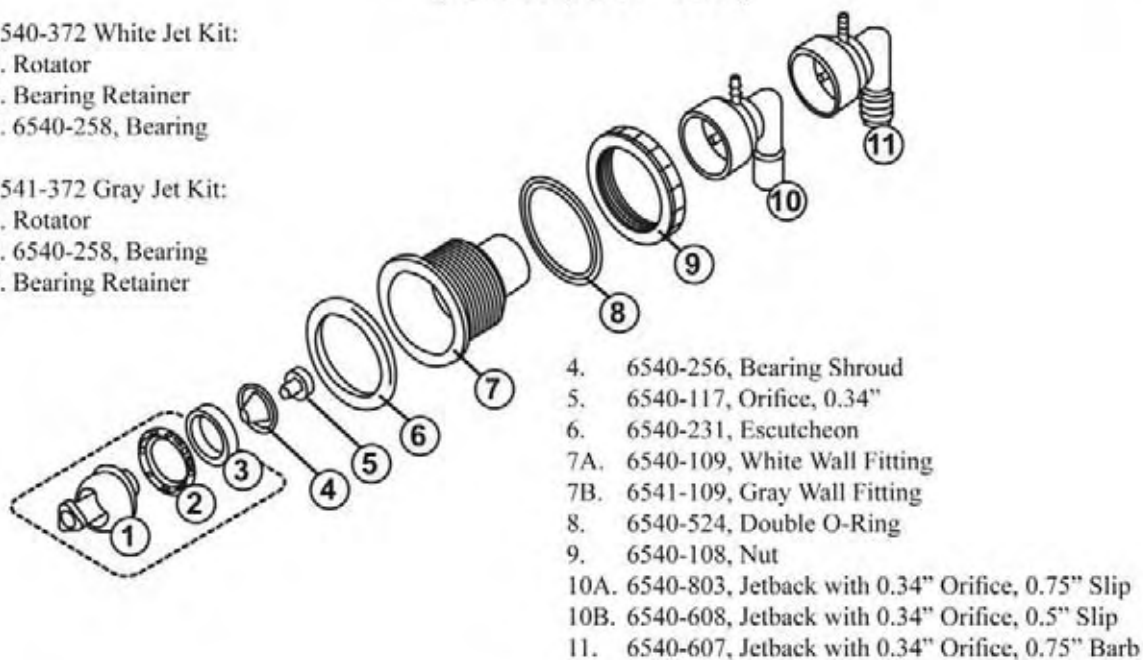
Intelli-Jet (1995 - 1998)

6540-372 White Jet Kit:

1. Rotator
2. Bearing Retainer
3. 6540-258, Bearing

6541-372 Gray Jet Kit:

1. Rotator
2. 6540-258, Bearing
3. Bearing Retainer



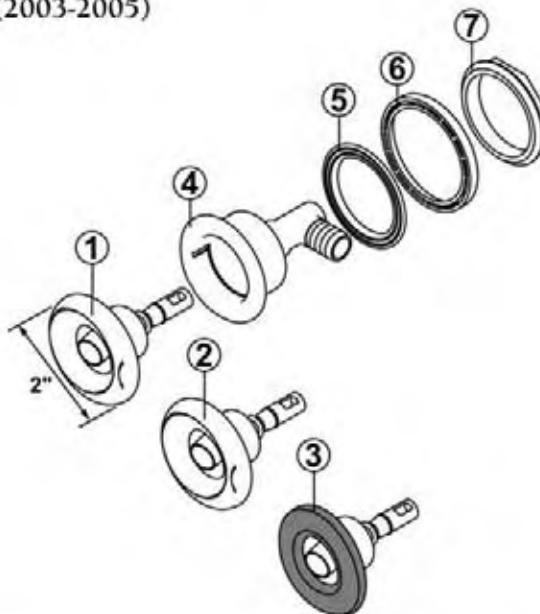
4. 6540-256, Bearing Shroud
5. 6540-117, Orifice, 0.34"
6. 6540-231, Escutcheon
- 7A. 6540-109, White Wall Fitting
- 7B. 6541-109, Gray Wall Fitting
8. 6540-524, Double O-Ring
9. 6540-108, Nut
- 10A. 6540-803, Jetback with 0.34" Orifice, 0.75" Slip
- 10B. 6540-608, Jetback with 0.34" Orifice, 0.5" Slip
11. 6540-607, Jetback with 0.34" Orifice, 0.75" Barb

SUNDANCE PLUMBING

Euro Jet / SMT Micro Jet / SMT Mini Jet

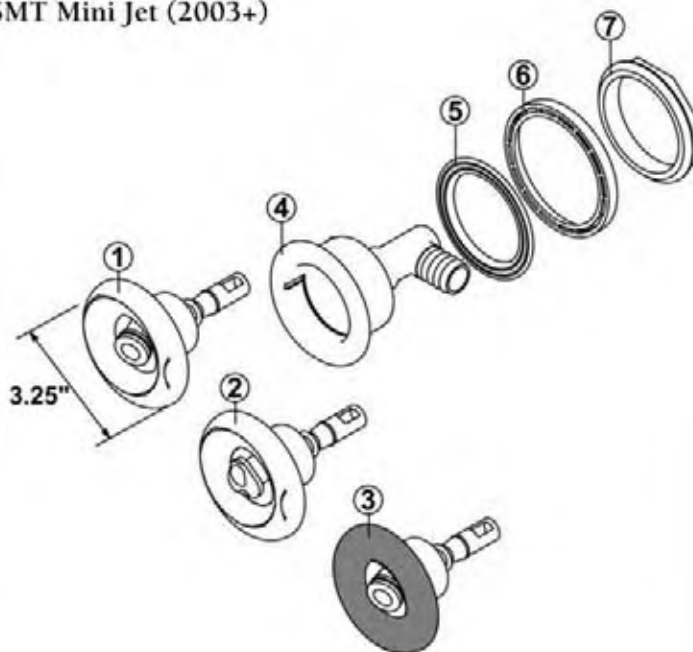
Euro Jet (2005+) SMT Micro Jet (2003-2005)

1. 6541-787, Euro Jet Face with 316SS Escutcheon (2006+ 880 Series, 2005 880/850 Series)
2. 6540-961, SMT Micro Jet Face, Directional (2005+ 780 Series, 2003-2004 Sweetwater Series)
3. 6540-787, SMT Micro Jet Face, Euro/Textured, Directional (2003-2005 Del Sol Series)
4. 6540-962, SMT Micro Jetback, 0.75" Barb
5. 6540-963, O-Ring
6. 6540-964, Washer (Self-Leveling)
7. 6540-965, Nut, SMT Micro Jet



SMT Mini Jet (2003+)

1. 6540-960, SMT Mini Jet Face, Directional (2005+ 780 Series / 2003-2004 Sweetwater Series)
2. 6540-959, SMT Mini Jet Face, Rotational (2005 780 Series / 2003-2004 Sweetwater Series)
3. 6540-818, SMT Mini Jet Face, Textured/Directional (2003-2005 Del Sol Series)
4. 6540-341, SMT Mini Jetback, 0.75" Barb
5. 6541-098, O-Ring, 1.98" I.D. (replaced 6540-333)
6. 6540-332, Washer (Self-Leveling)
7. 6540-334, Nut, SMT Mini Jet

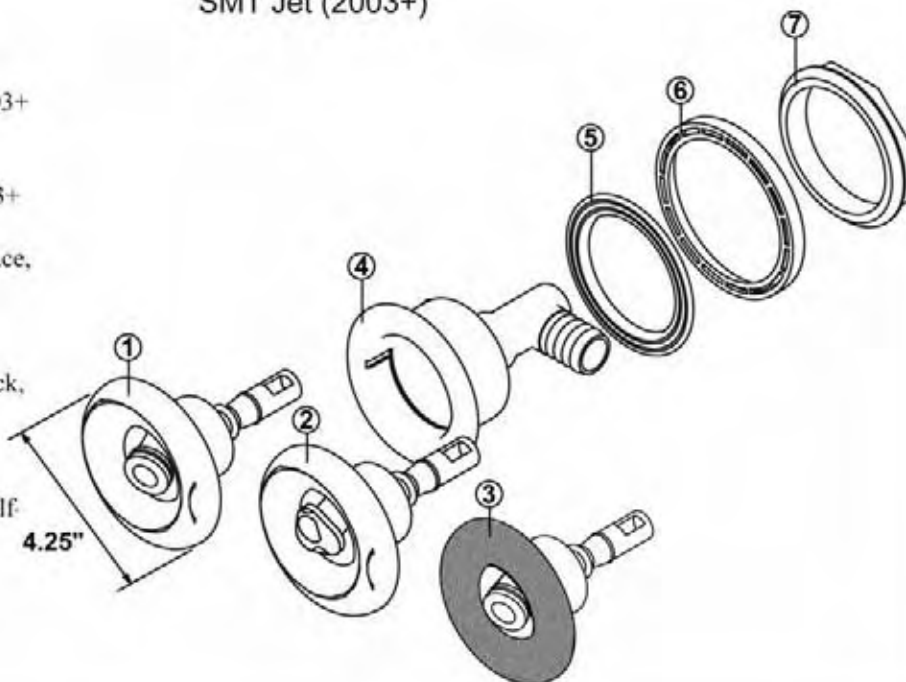


SUNDANCE PLUMBING

SMT Jet / SMT Turbo Jet

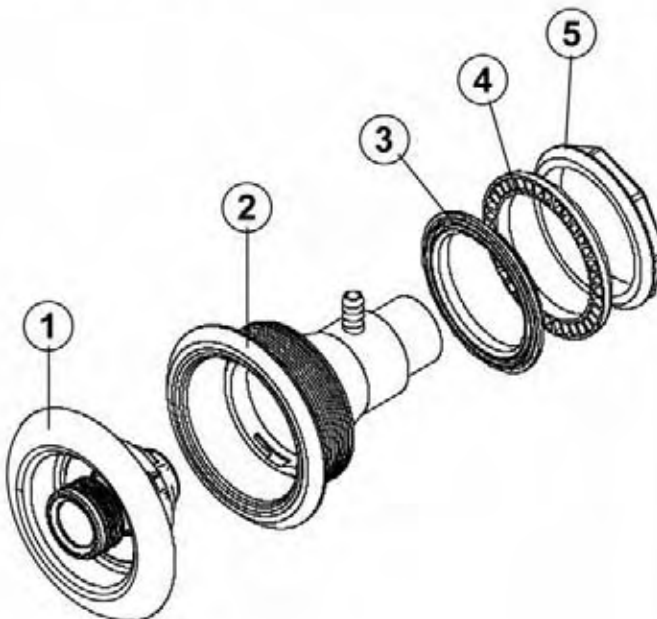
SMT Jet (2003+)

1. 6540-755, SMT Jet Face, Directional (2003+ Sweetwater Series)
2. 6540-754, SMT Jet Face, Rotational (2003+ Sweetwater Series)
3. 6540-820, SMT Jet Face, Textured/Rotational (2003+ Del Sol Series)
4. 6540-756, SMT Jetback, 0.75" Barb
5. 6540-757, O-Ring
6. 6540-758, Washer (Self Leveling)
7. 6540-759, Nut, SMT Jet



SMT Turbo Jet (2003+)

1. 6540-771, SMT Turbo Jet Face, Directional (2003+ Sweetwater Series)
- 2A. 6540-773, SMT Turbo Jetback, 0.375" Barb x 1.5" Spigot
- 2B. 6540-772, SMT Turbo Jetback, 1" Socket
3. 6540-525, O-Ring, 3.68" x 0.374"
4. 6540-298, Washer, Self Leveling
5. 6540-297, Nut SMT Turbo Jet

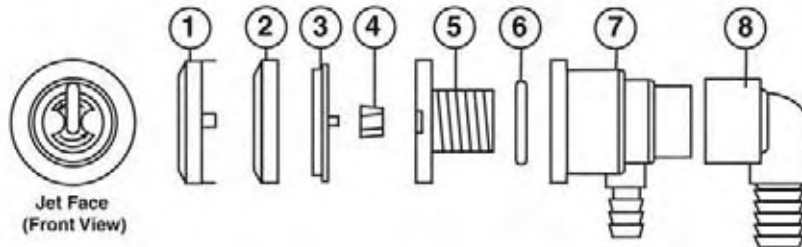


SUNDANCE PLUMBING

Pulsator Jet / Palm/Duo Jet

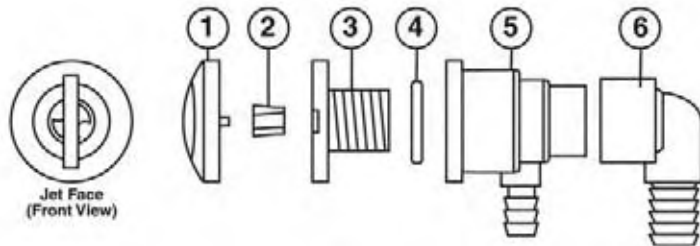
Pulsator Jet (2000+)

1. 6540-309, Escutcheon, 316 SS
2. 6540-336, Jet Face without Escutcheon (Gray)
3. 6540-343, Retainer (Gray)
4. 6540-330, Nozzle (Gray)
5. 6540-338, Wall Fitting (Gray)
6. 6660-002, O-Ring
7. 6540-274, Jetback (Gray)
8. 6540-061, 90° Elbow, 0.5" Slip x 0.75" Barb



Palm/Duo Jet (1997 - 1999)

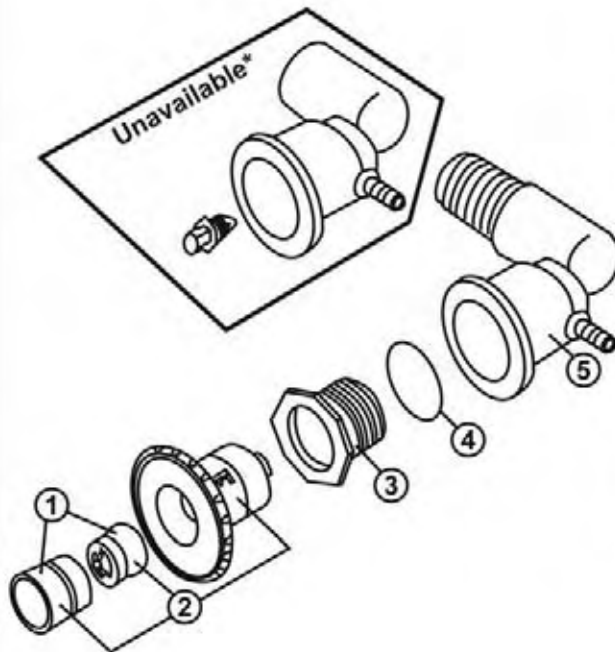
1. 6541-273, Grill Cap (Gray)
2. 6541-272, Flow Path Spinner (Gray)
3. 6540-276, Wall Fitting (Gray)
4. 6660-002, O-Ring
5. 6540-274, Jetback (Gray)
6. 6540-061, 90° Elbow, 0.5" Slip x 0.75" Barb
7. 5040-343, Complete Jet Assembly for 1997 Tango and All Sweetwater Models (White)



SUNDANCE PLUMBING

Micro Blaster / Ultra-Pulse Jet

Micro Blaster / Ultra-Pulse Jet
(1999+ Sundance Maxxus Models Only)



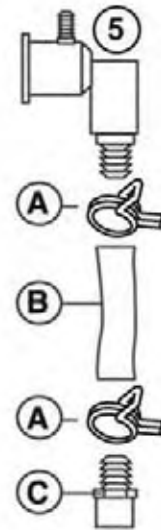
1. 6000-260, Eye & Cage
2. 6540-308, Jet Face Assembly**
3. 6540-107, Jet Body Assembly
4. 6540-522, Double O-Ring
5. 6540-211*, Jetback , 0.75" Barb

**Can retrofit gray Micro Magna directional face assembly #6540-072 and rotating face assembly #6540-073

*Retrofit Jetback Details

To adapt barb jetback #5 (#6540-211) to older rigid pipe spas, the following parts are required:

- A. 6570-033, Hose Clamp
- B. 6540-744, 0.75" Clear Hose, 6"
- C. 6540-065, Adapter, 0.75" Barb x 1" Spigot / 0.75" Slip

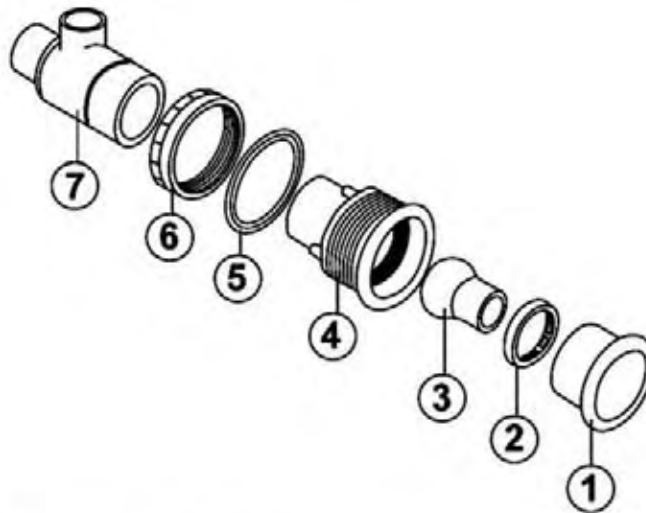


SUNDANCE PLUMBING

Whirlpool Jets

Whirlpool Jet (1989-1996) (600 / 800 / Suncoast Systems)

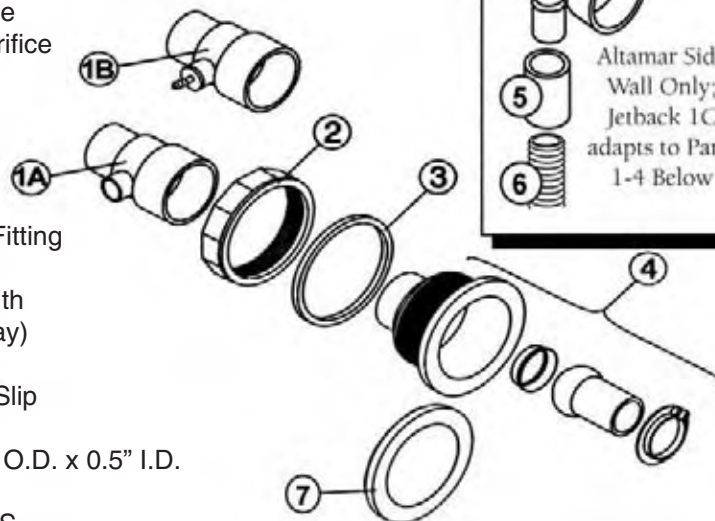
1. 6540-302, Escutcheon
2. 6540-658, Retainer Ring
3. 6540-657, Eyeball
4. 6540-656, Wall Fitting
(replaced 6540-656)
5. 6540-520, Double O-Ring
6. 6540-655, Nut
7. 6540-659, Jetback



Note: Can be Used as Replacement for All 1997 and Older Whirlpool Jets

Whirlpool Jet (1997-2005)

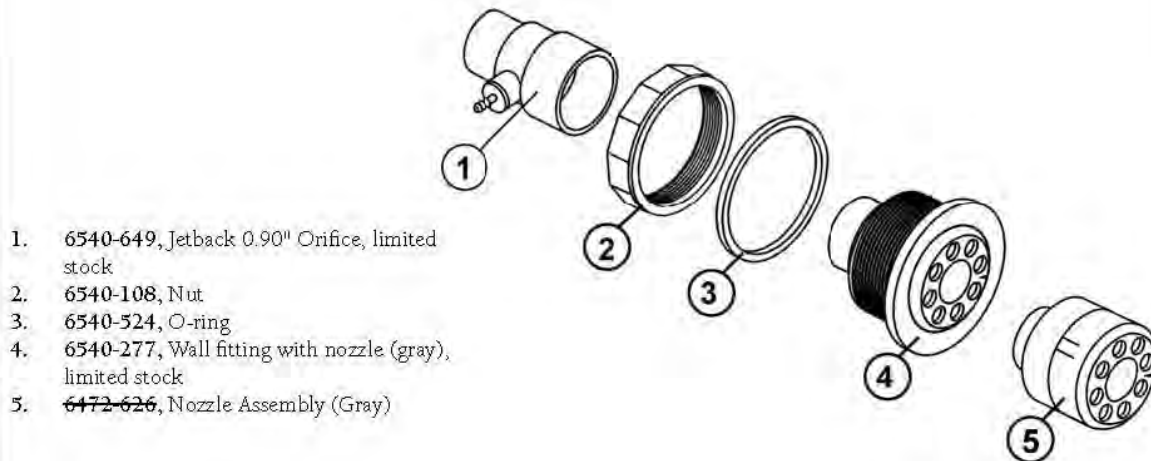
- 1A. 6540-610, Jetback, 1" Orifice
- 1B. 6540-650, Jetback, 0.57" Orifice
- 1C. 6541-805, Jetback, 0.55" Orifice (Altamar Side Wall)
2. 6540-108, Nut
3. 6540-524, O-Ring
- 4A. SD6540-611
Replaces: 6540-611, Wall Fitting with Eyeball (White)
- 4B. SD6541-654, Wall Fitting with Eyeball w/ Escutcheon (Gray)
Replaces: 6541-611
5. 6540-016, Coupling, 0.75" Slip (Altamar Side Wall)
6. 6540-395, Flex hose, 0.75" O.D. x 0.5" I.D. (Altamar Side Wall)
7. 6540-231 Escutcheon 316SS



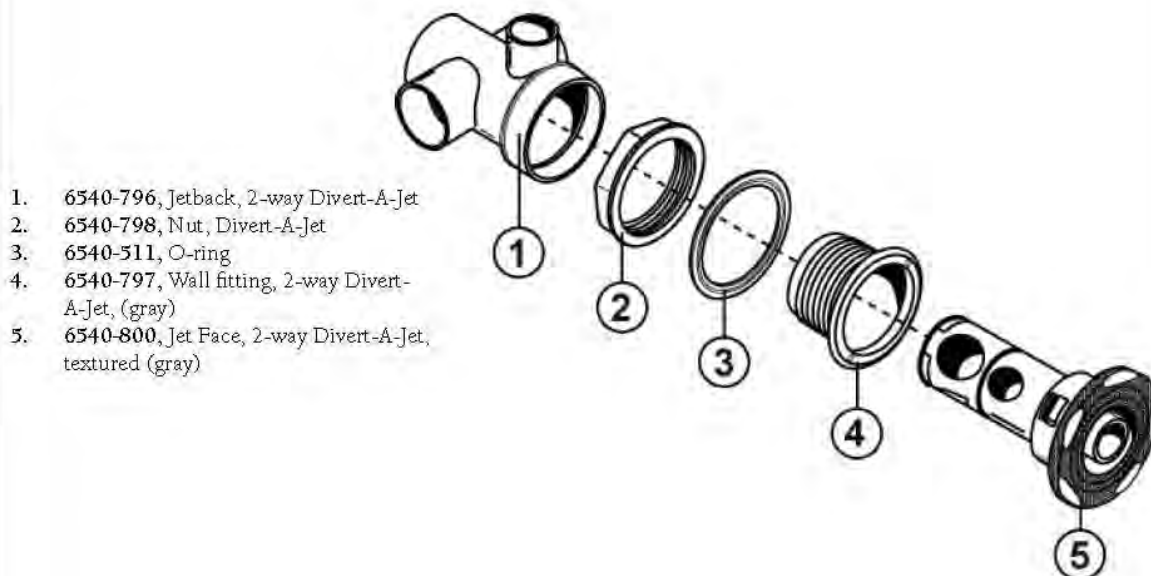
SUNDANCE PLUMBING

Whirlpool Jet+/Divert-A-Jet

Whirlpool Jet+ (2000 Marin Only)



Divert-A-Jet (2006+ 680 Denali Model) (2003-2005 Del Sol Redondo Only)

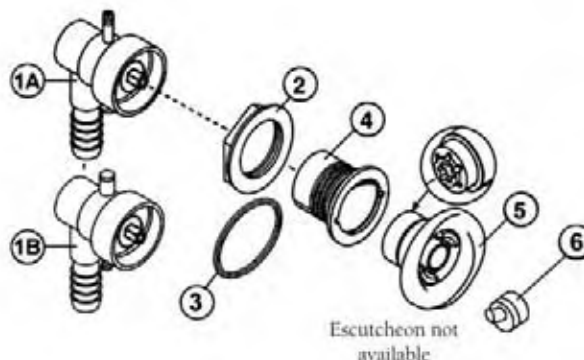


SUNDANCE PLUMBING

Pro-Touch Jet / Pro-Touch II (Magna II) Jet

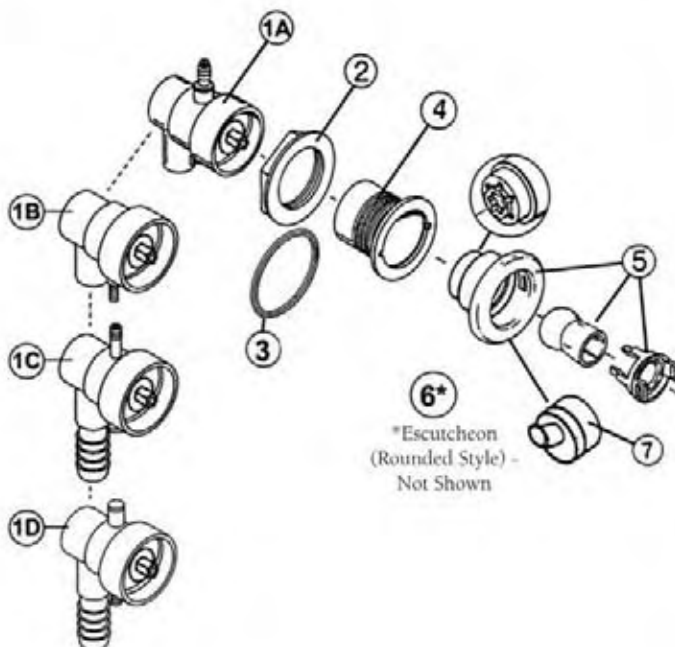
Pro-Touch Jet (2000-2004 Sweetwater)

- 1A. 6540-203, Jetback, 0.75" Barb, 0.34" Orifice
- 1B. 6540-221, Jetback, 0.75" Reverse Barb, 0.312" Orifice
- 2. 6540-137, Nut
- 3. 6540-527, O-Ring
- 4. 6540-138, Wall Fitting
- 5. 6540-147, Jet Face Assembly with Nozzle and Retainer Clip
- 6. 6000-003, Rotating Eyeball (Gray)



Pro-Touch II Jet (2000+) Also Called Magna II Jet (6/97 - 12/99)

- 1A. 6540-151, Jetback, 0.34" Orifice
- 1B. 6540-163, Jetback, Reverse Barb, 0.34" Orifice
- 1C. 6540-203, Jetback, 0.75" Barb, 0.34" Orifice
- 1D. 6540-221, Jetback, 0.75" Reverse Barb, 0.312" Orifice
- 2. 6540-137, Nut
- 3. 6540-527, O-Ring
- 4. 6540-138, Wall Fitting
- 5A. 6540-141, Directional Jet Face - White (3-pcs.)
- 5B. 6540-161, Directional Jet Face - Gray (3-pcs.)
- 6. 6540-239, Escutcheon* - Rounded Style, (Not Included with Jet Face)
- 7A. 6540-140, Jet Face Rotator - White (2-pcs.)
- 7B. 6540-162, Jet Face Rotator - Gray (2-pcs.)



SUNDANCE PLUMBING

Micro Magna Jet / Standard Magna Jet

Micro Magna Jet Series

White Series:

Used in 1995-6/97 Sundance Models

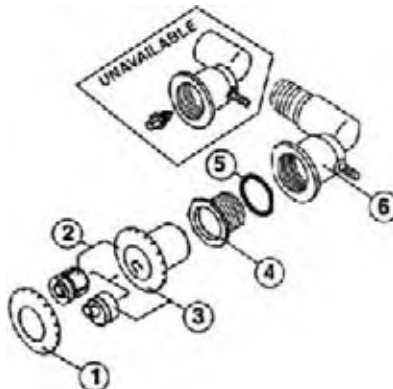
1. 6540-248, Escutcheon (Flat)
2. 6540-067, Directional Face
3. 6540-068, Rotating Face
4. 6540-107, Wall Fitting
5. 6540-522, Double O-Ring
- 6*. 6540-211, Jetback, 0.75" Barb

Gray Series:

Used in 1998-99 Sundance Altamar,
 2004 Sundance Maxxus, and
 1998-2004 Sweetwater Models

1. 6540-251, Escutcheon (Rounded)
2. 6540-072, Directional Face (Flat)
3. 6540-073, Rotating Face
4. 6540-107, Wall Fitting
5. 6540-522, Double O-Ring
- 6*. 6540-211, Jetback, 0.75" Barb

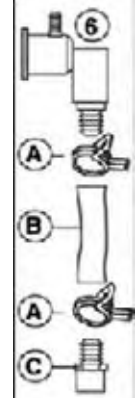
*The slip style jetback shown below must be retrofit using a the
 barbed style jetback #6540-211. Refer to retrofit details below
 when replacing a damaged slip style jetback.



*Slip Jetback Retrofit Details

To adapt barb jetback #6
 to older rigid pipe spas, the
 following parts are required:

- A. 6570-157, Hose Clamp
 B. 6540-744, Clear Hose, 6"
 C. 6540-065, Adapter, 0.75"
 Barb x 1" Spigot / 0.75" Slip



Standard Magna Jet Series

White Series: Used in 1995 - 6/97
 Sundance Models:

- 1A. 6540-247, Escutcheon - (Flat)
- 1B. 6000-078 Rubber Escutcheon Cover (Not Shown)
2. 6540-054, Directional Face - White
3. 6540-047, Rotating Face - White

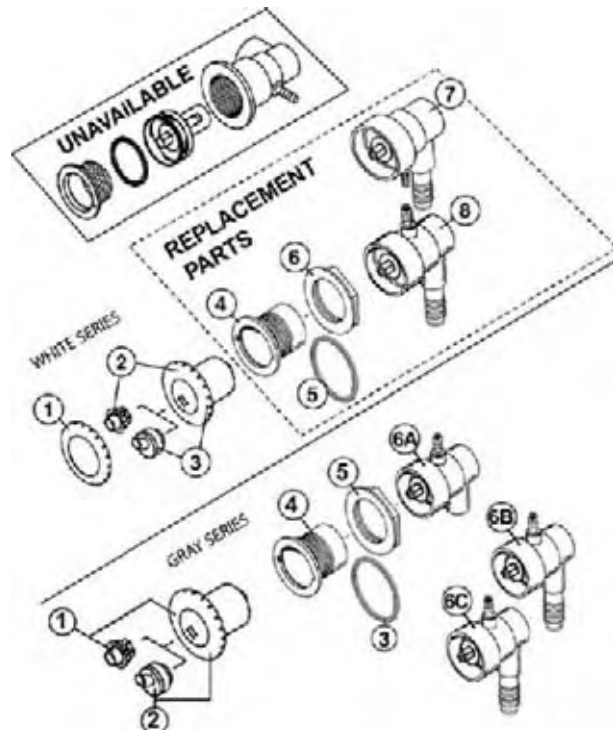
Replacement Parts*

4. 6540-138, Wall Fitting
5. 6540-527, Double O-Ring
6. 6540-137, Nut
7. 6540-151, Jetback, 0.34" Orifice, Reverse Barb
8. 6540-163, Jetback, 0.34" Orifice

Gray Series: Used in 1998-1999

Sweetwater Models Only:

1. 6541-054, Directional Face - Gray (Flat)
2. 6541-047, Rotating Face - Gray
3. 6540-527, Double O-Ring
4. 6540-138, Wall Fitting
5. 6540-137, Nut
- 6A. 6540-151, Jetback, 0.75" Slip, 0.34" Orifice
- 6B. 6540-203, Jetback, 0.75" Barb, 0.34" Orifice
- 6C. 6540-215, Jetback, 0.75" Barb, 0.312" Orifice (Sweetwater Only)



*Minor modification required. Call technical support for details.

ITEM #	MFG #	DESCRIPTION
SD6540-747	6540-747	Hose: Clear PVC 9/16 x .350 Air Injector Hose (Ordered by the Foot)



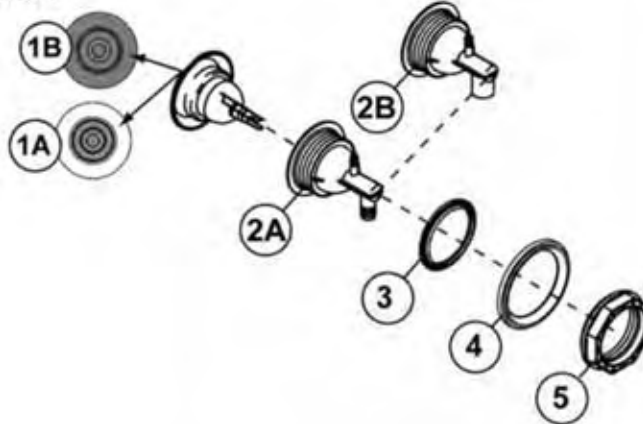
SUNDANCE PLUMBING

Mini-Mag Jet/Butterfly Jet/Jet Cluster Pulsator Jet

Mini-Mag Jet (2000+)

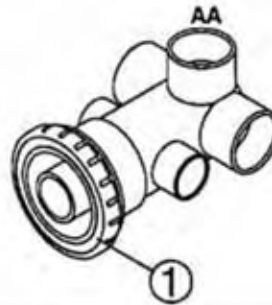
- 1A. 6540-346, Jetface with 316SS escutcheon, textured/directional (gray)
- 1B. 6540-335, Jetface without escutcheon, textured/directional, gray (Used in Architectural series Luna/Tenon and various other models)
- 2A. 6540-341, Jetback, 0.75" Barb
- 2B. 6540-342, Jetback, 0.75" Slip
- 3. 6541-098, O-ring, 1.98" I.D.
- 4. 6540-332, Washer (Self-leveling)
- 5. 6540-334, Nut

Jet Face Options



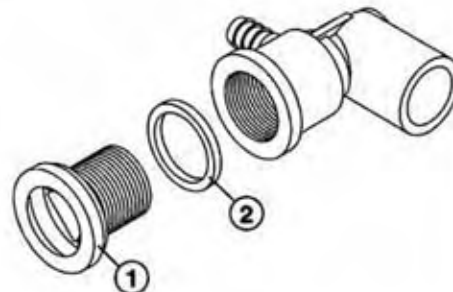
Butterfly Jet (1995-1996)

- 1A. ~~6540-199~~, 2-port Whirlpool jet (1.5" cap at AA)
- 1B. 6540-206, 3-port Whirlpool jet (part number 6540-100 (plug) can be used to make part #6540-199)



Jet Cluster Pulsator Jet (1997 Tango/Altamar)

- 1. 5040-343, Jet Cluster Pulsator with escutcheon
- 2. 6660-002, O-ring



SUNDANCE PLUMBING

Rambo Jet/SunStorm Jet/Select-A-Sage Jet

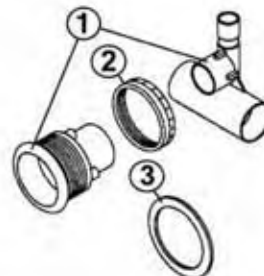
Rambo Jet Parts "Non-Twist Lock"

Fits Models:

- A. All 624 Series
- B. All 1989 605, 701, and 724 Series (Also used early 1990)

- 1. 6540-311, Wall fitting and jetback*
- 2. 6540-678, Nut
- 3. 6540-520, Double O-ring

*Discontinued, Retrofit with Select-A-Sage Jet Below



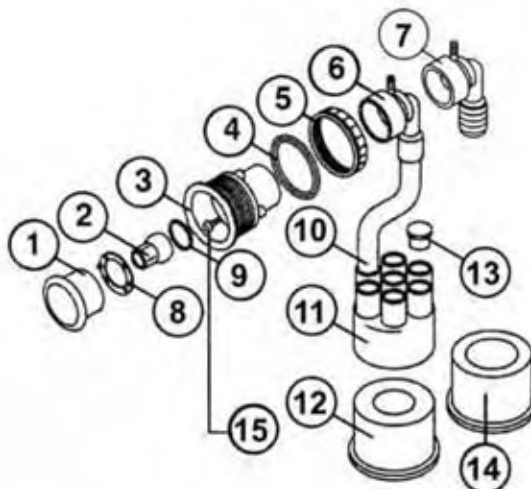
SunStorm Jet

6540-680, Sunstorm jet assembly, adapts to either Rambo or twist lock jets on this page.



Select-A-Sage "Twist Lock" Jet (1990-1997)

- 1. 6540-302, Escutcheon
- 2A. 6540-676, Eyeball (white)
- 2B. 6541-676, Eyeball (gray)
- 3A. 6540-674, Jet Wall fitting (white)
- 3B. 6541-674, Jet Wall fitting (gray)
- 4. 6540-520, O-ring
- 5. 6540-678, Nut
- 6A. 6540-803, Jetback, 0.75" Slip, 0.34" Orifice
- 6B. 6540-804, Jetback, 0.75" Slip, 0.375" Orifice
- 6C. 6541-805, Jetback, 0.75" Slip, 0.55" Orifice (Altamar foot)
- 6D. 6540-806, Jetback, 0.5" Slip, 0.30" Orifice
- 7. 6540-605, Jetback, 0.75" Barb, 0.41" Orifice
- 8A. 6540-673, Retainer ring (white)
- 8B. 6541-673, Retainer ring (gray)
- 9. 6540-697, Eyeball O-ring, limited stock
- 10. 6540-397, Flex pipe, 0.75"
- 11. 6540-784, Water manifold (0.75" Slip Port)
- 12. 6540-292, Reducer, 3" Spigot x 1.5" Slip
- 13. 6540-105, Plug, 0.75" Spigot, limited stock
- 14. 6540-294, Reducer, 3" Spigot x 2" Slip, limited stock
- 15A. 6540-670, Retainer tab, quantity of 4 needed (white)
- 15B. 6541-670, Retainer tab, quantity of 4 needed (gray)

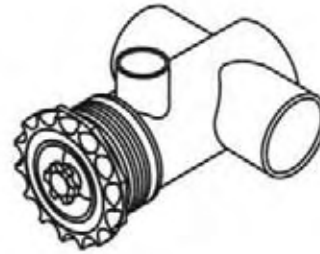


SUNDANCE PLUMBING

Swim Jet / Hydro-Air Mark II Jet

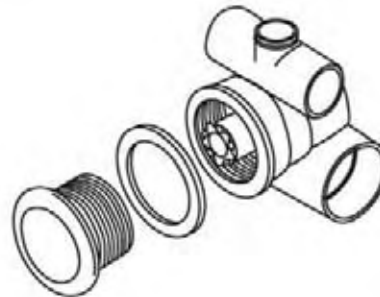
American Products Swim Jet (1989-1996)

6540-295, 505 - Jamboree Models



Hydro-Air Mark II Jet

6540-331, Fits: 1986 - 1988 603, 604, 605 Systems



Miscellaneous Parts

6540-327, Retainer Ring, 1984 - 1985, P-20E (Jacuzzi)



6540-322, Eyeball, 1984 - 1985, P-20E (Jacuzzi)

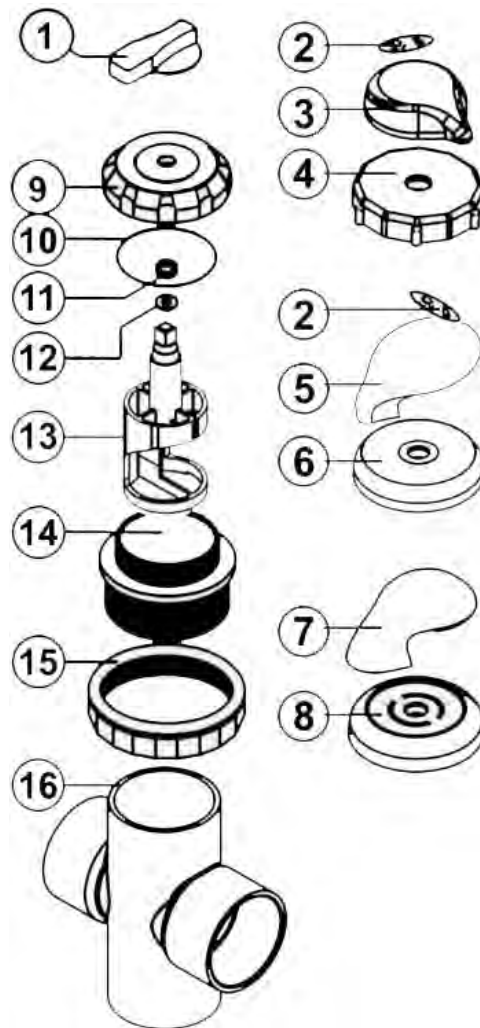


SUNDANCE PLUMBING

All 2004-2006 Sundance/Sweetwater/Del Sol Models

1. 6540-224, Knob, 2003-2005 Del Sol Hermosa
- 2A. 6530-260, Emblem, Therapy jets/Therapy seat (Selfadhesive)
- 2B. 6530-261, Emblem, Whirlpool jets/Therapy seat (Selfadhesive)
- 2C. 6530-262, Emblem, foot jets/Therapy seat (Self-adhesive)
3. 6540-877, Knob (gray), all 2004-2005 Sundance
4. 6540-876, Cap (gray), all 2004-2005 Sundance, limited stock
5. 6541-376, Knob (gray), used on in-ground models all 2006 880 Series spas, 2005 Sundance 880/850/850E spas (Can use part 6540-533 as a replacement, if necessary)
6. 6541-377, Cap (gray), all 2006 880 Series spas, 2005 Sundance 880/850/850E spas
7. 6540-363, Knob (gray), all 2006 780 Series spas, 2005 780 and 2003-2004 Sweetwater models
8. 6540-362, Cap (gray), all 2006 780 Series spas, 2005 780 and 2003-2004 Sweetwater models
9. 6540-223, All 2003-2005 Del Sol Hermosa
10. 6540-865, O-ring, body, all models
11. 6540-868, O-ring, stem, all models
12. 6570-248, Washer, all models
13. 6540-966, Gate, all 2004-2006 models including Del Sol Hermosa*
14. 6541-969, Wall fitting (gray), all 2004-2006 models including Del Sol Hermosa*
15. 6540-968, Nut, all 2004-2006 models including Del Sol Hermosa*
16. 6540-967, Valve body, all 2004-2006 models including Del Sol Hermosa*

*Note: Part #11 above can retrofit all older 1993-2003 spas and is compatible with 1993-1998 diverter valve assembly parts. Parts #12-14 also retrofit all older 1993-2003 diverter valves listed on page 172 but must be replaced as a set.



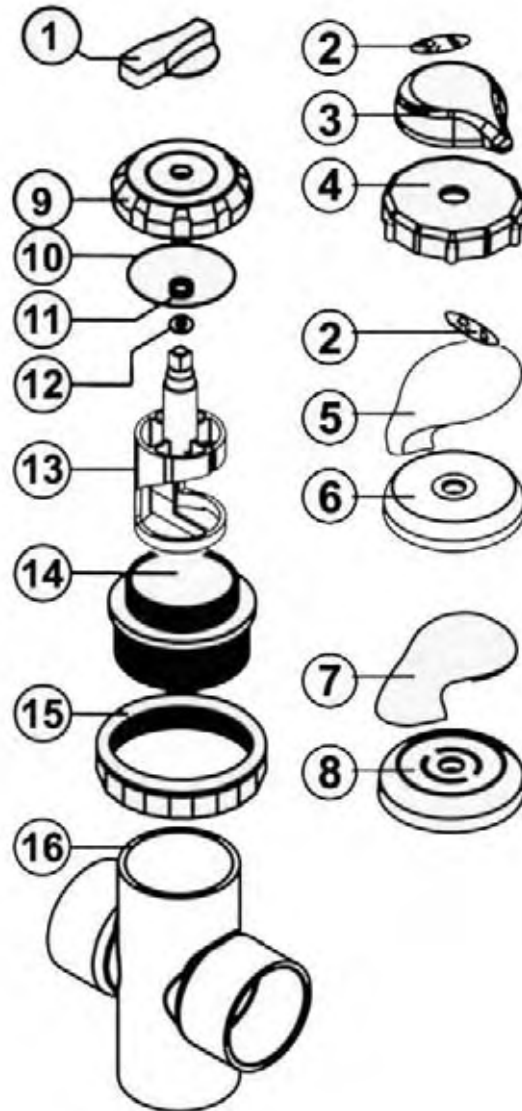
SUNDANCE PLUMBING

Diverter Valve Assembly, 2004 +

Diverter Valve Assemblies - All 2004+ Sundance / Sweetwater / Del Sol Models

1. 6540-224, Knob, 2003-2005 Del Sol Hermosa
- 2A. 6530-260, Emblem, Therapy Jets/Therapy Seat
(Self-Adhesive)
- 2B. 6530-261, Emblem, Whirlpool Jets/Therapy Seat
(Self-Adhesive)
- 2C. 6530-262, Emblem, Foot Jets/Therapy Seat
(Self-Adhesive)
3. 6540-877, Knob (Gray), All 2001-2004 Sundance
4. 6540-876, Cap (Gray), All 2001-2004 Sundance
5. 6541-376, Knob (Gray), All 2005+ Sundance 880/
850/
850E spas
6. 6541-377, Cap (Gray), All 2005+ Sundance 880/850/
850E spas
7. 6540-363, Knob (Gray), All 2005+ 780 and 2003-
2004
Sweetwater models
8. 6540-362, Cap (Gray), All 2005+ 780 and 2003-2004
Sweetwater models
9. 6540-223, All 2003-2005 Del Sol Hermosa
10. 6540-865, O-Ring, Body - All Models
11. 6540-868, O-Ring, Stem - All Models
12. 6570-248, Washer - All Models
13. 6540-966, Gate, All 2004+ Models Including Del Sol
Hermosa*
14. 6541-969, Wall Fitting (Gray), All 2004+ Models
Including Del Sol Hermosa*
15. 6540-968, Nut, All 2004+ Models Including Del Sol
Hermosa*
16. 6540-967, Valve Body, All 2004+ Models Including
Del Sol Hermosa*

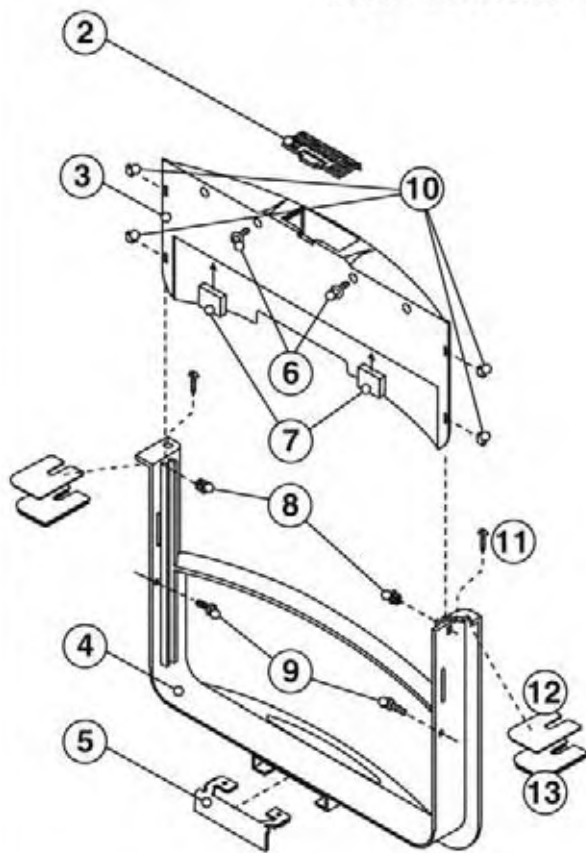
*Note: Part #11 Above Can Retrofit All Older 1993-2003
Spas And is Compatible with 1993-1998 Diverter Valve
Assembly Parts. Parts #12-14 Also Retro-fit All
Older 1993-2003 Diverter Valves Listed On Page 106 But
Must Be Replaced As A Set.



SUNDANCE LIDS / WEIRS

Weir Assemblies (2000+)

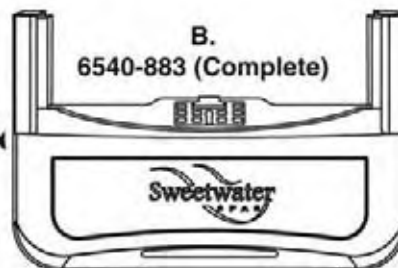
2000+ Sundance / Portofino / Sweetwater



Weir Assembly (Back)



A.
6540-882 (Complete)



B.
6540-883 (Complete)

Weir Assembly (Front)

- 1A. 6540-882, Complete Sundance / Portofino Weir Assembly (Gray)
- 1B. 6540-883, Complete Sweetwater Weir Assembly (Gray)
- 2. 6540-886, Bromide Box Lid (Gray)
- 3. 6000-885, Weir Gate with Bearings Installed (Gray);
Compatible with All 2000+ Sundance / Portofino Models.
- 4A. 6540-880, Weir Frame with Sundance Logo (Gray)
- 4B. 6540-881, Weir Frame with Sweetwater Logo (Gray)
- 5. 6540-887, Weir Adjuster Bracket (Gray)
- 6. 6540-891, Weir Foam Clip
- 7. 6540-587, Weir Foam
- 8. 6540-892, Weir Plug (Gray)
- 9. 6570-073, Screw, 1/4-28 x 0.625" Nylon
- 10A. 6540-849, Sliding Bearing (2001+ Models)
- 10B. 6540-847, Sliding Bearing (6/96 to 2000 Models)*
- 11. 6570-470, Screw
- 12. 6540-893, Shim, 0.04" Thick
- 13. 6540-894, Shim, 0.08" Thick

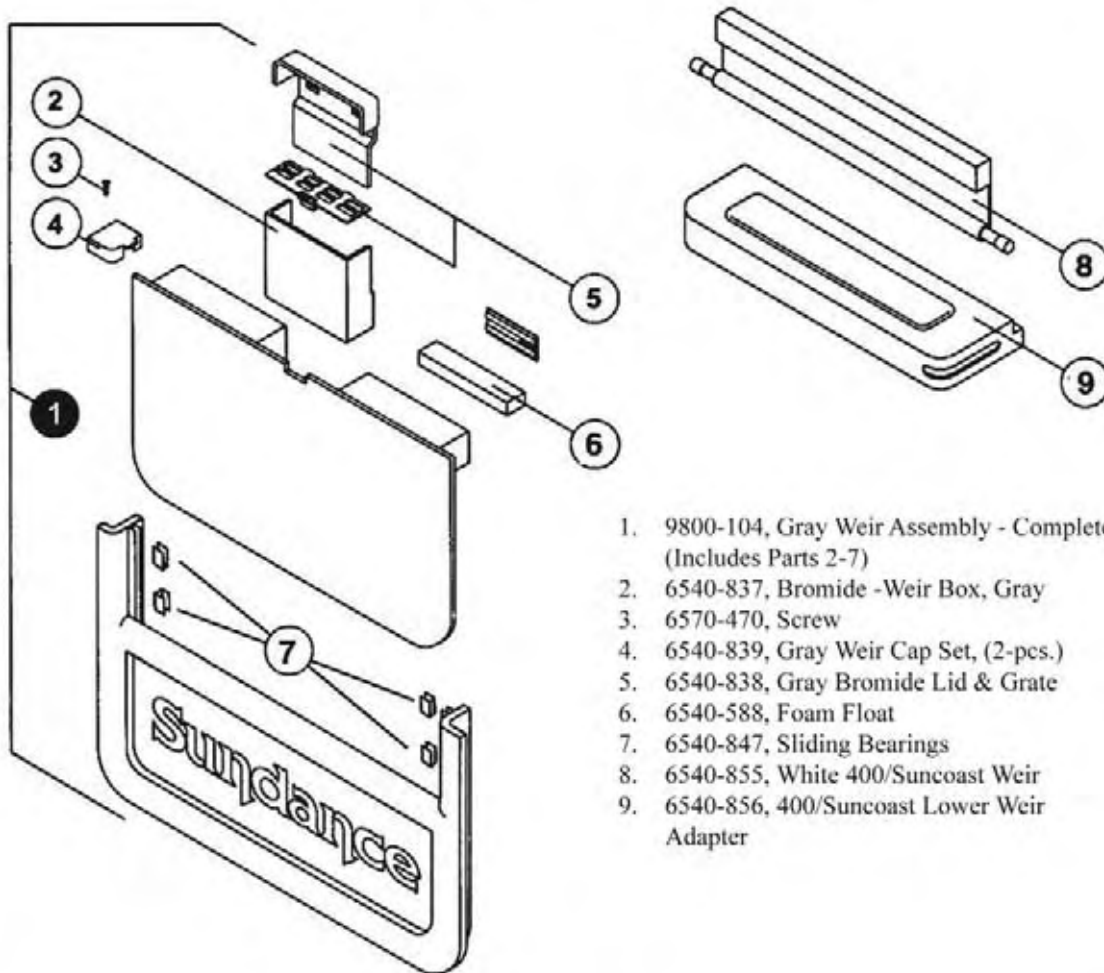
**To ensure optimum performance in 6/96 to 2000 models, Sundance recommends replacing their weir gate/bearing assembly (#3) with our current 2001+ version (#6000-885).*

**Note: older sliding bearings (#6540-847) are not compatible with our current 2001+ weir gate/bearing assembly (#6000-885).*

SUNDANCE LIDS / WEIRS

Weir Assemblies (1986 - 1999)

1986 - 1999 Sundance / 1999 Portofino Models



1. 9800-104, Gray Weir Assembly - Complete (Includes Parts 2-7)
2. 6540-837, Bromide - Weir Box, Gray
3. 6570-470, Screw
4. 6540-839, Gray Weir Cap Set, (2-pcs.)
5. 6540-838, Gray Bromide Lid & Grate
6. 6540-588, Foam Float
7. 6540-847, Sliding Bearings
8. 6540-855, White 400/Suncoast Weir
9. 6540-856, 400/Suncoast Lower Weir Adapter

602 Systems



6540-581
Bezel Arm for 602 Systems Only

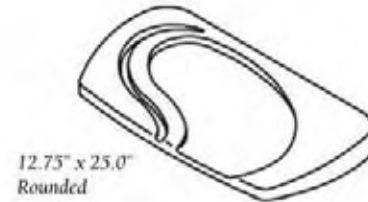
All item #'s above include SD for Allied.

SUNDANCE LIDS / WEIRS

Skimmer Lids (2000+)

All 2005+ Majesta Models
All 2000+ Maxxus, Optima, Cameo, Altamar, Marin, Capri Models
All 2000-2005 Caprio Models

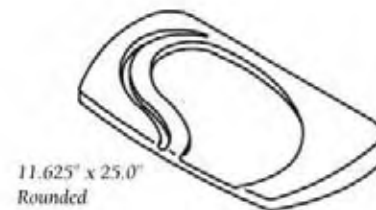
All Models	Colors
9800-942	Azure
9800-939	Blue Grass
9800-934	Emerald
9800-940	Marine
9800-937	Onyx
9800-912	Platinum
9800-935	Sahara
9800-928	Sand
9800-932	Sapphire
9800-911	Silver
9800-943	Champagne
9800-944	Sand II



All Models	Colors
9800-927	Jade (Limited Stock)
9800-924	Tropic Topaz (Limited Stock)

All 2005 Metro Models
All 2000 - 2004 Tango, 2000+ Solo Models

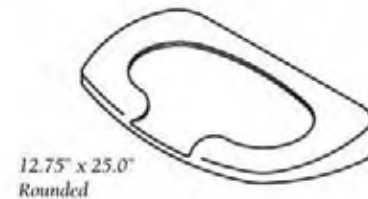
Solo	Metro/Tango	Colors
9800-842	9801-842	Azure
9800-839	9801-839	Blue Grass
9800-834	9801-834	Emerald
9800-840	9801-840	Marine
9800-837	9801-837	Onyx
9800-812	9801-812	Platinum
9800-835	9801-835	Sahara
9800-828	9801-828	Sand
9800-832	9801-832	Sapphire
9800-811	9801-811	Silver



All Models	Colors
9800-927	Jade (Limited Stock)

All 2000+ Palermo, Bahia, Cayman Models
All 2006 Metro and Caprio Models
All 2000-2005 Lagunas

All Models	Colors
Azure	9801-942
Blue Grass	9801-939
Marine	9801-940
Onyx	9801-937
Platinum	9801-912
Sahara	9801-935
Sand	9801-928



All Models	Colors
9800-927	Jade (Limited Stock)

SUNDANCE LIDS / WEIRS (continued)

Skimmer Lids (1995-1999)

1997-1999 Sundance/Portofino

<u>Color</u>	<u>Tango</u> (Figure A)	<u>Solo*</u> (Figure A)	<u>All Others</u> (Figure B)
Bluegrass.....	9800-439.....	9800-739.....	9800-539
Emerald.....	9800-434.....	9800-734.....	9800-534
Forest Green.....	9800-423.....		9800-523
Marine.....	9800-440.....	9800-740.....	9800-540
Mid. Garnet.....	9800-425.....		9800-525
Onyx.....	9800-437.....	9800-737.....	9800-537
Platinum.....	9800-412.....	9800-712.....	9800-512
Quarite Jade.....	9800-427**.....	9800-727.....	9800-527
Quarite Sand.....	9800-428**.....	9800-728.....	9800-528
Sahara.....	9800-435**.....	9800-735.....	9800-535
Sand.....	9800-428**.....	9800-728.....	9800-528
Sapphire.....	9800-432.....	9800-732.....	9800-532
Teal.....	9800-415.....		9800-515
Tropic Topaz.....	9800-424.....	9800-724.....	9800-524



Note: Certain early 1997 models may use the square lid design shown below.



* Solo lids can be easily identified by a notch on their right side lip (Not shown)

**Limited to stock on hand.

All 1997-1999 Sweetwater

<u>Color</u>	<u>Item #</u>
Gray.....	5040-071*



All 1995-1996 Sundance

<u>Color</u>	<u>Item #</u>
Emerald.....	9800-334
Platinum.....	9800-312
Quarite Jade.....	9800-327
Quarite Sand.....	9800-328
Sapphire.....	9800-332
Slate Blue.....	Unavailable
Tropic Topaz.....	9800-324



SUNDANCE LIDS / WEIRS (*continued*)

Skimmer Lids (1985 - 1994)

All 1993 - 1994 Sundance

Color	Order No.
Centrex	Unavailable
Cranberry	Unavailable
Forest Green.....	Unavailable
Platinum.....	9800-112
Quarite Gray	Unavailable
Quarite Jade	9800-127
Slate Blue	Unavailable
Tropic-Topaz.....	9800-124



Denali Filter Lid

Color	Order No.
Marine.....	9801-540
Platinum.....	9801-512
Sahara	9801-535



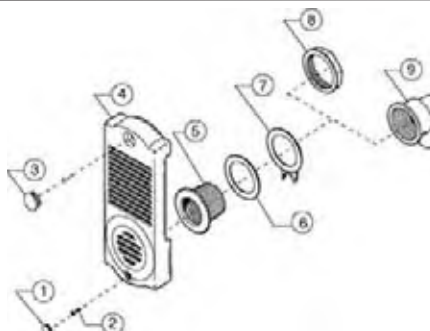
PENTAIR (AMERICAN PRODUCTS) SKIMMERS AND PARTS

ITEM# / MFG#	DESCRIPTION
4-15-0065 / 84102200	Thin line 10" skimmer complete



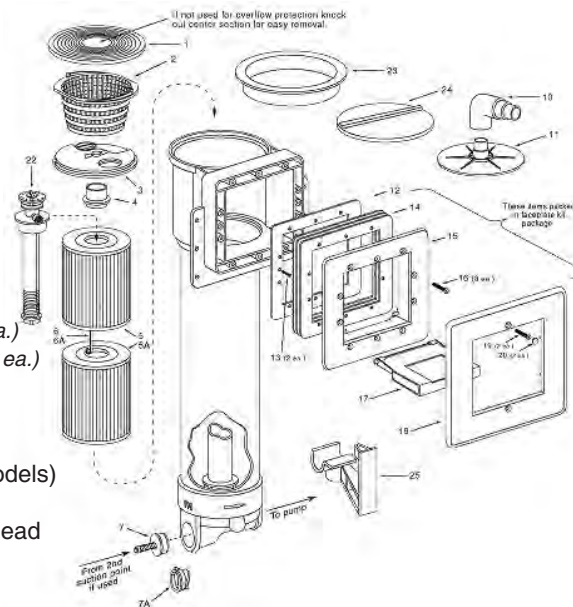
Replacement Components

ITEM# / MFG#	REF	DESCRIPTION
4-15-0067 / 85017100	4A	10" plate thin line (No longer available)
4-15-0068 / 85017000	4	12" plate thin line
4-15-0069 / 86204000	5	Wall flange thin line
4-15-0070 / 46135200	6	Gasket wall thin line
4-15-0071 / 87200100	8	Nut wall thin line
4-15-0072 / 86204100	9	Elbow wall thin line



DYNAMIC SERIES IV - SAFETY SKIM FILTERS

ITEM# / MFG#	REF	DESCRIPTION
4-15-0091 / 172468	1	Cover
4-15-0092 / 172479	11	Vac Plate
4-15-0093 / 172467	2	Basket Assembly
4-15-0094 / 172466	3	Diverter Plate Assembly
4-15-0097 / 172465	4	Cartridge Plug
4-05-0098 / C-4405	5	Cartridge 25 sq. ft. (DSF-50 / 2 ea.)
4-05-0097 / C-4401	5A	Cartridge 17.5 sq. ft. (DSF-35 / 2 ea.)
4-15-0095 / 172477	6	Cartridge Puller DSF 50 only
4-15-0096 / 172608	6A	Cartridge Puller DSF 35 only
4-15-0101 / 172226	7A	By-Pass Assembly 1 1/2"
4-15-0098 / 172393	8	O-Ring, Access Plug (earlier models)
4-15-0099 / 172470	12	Gasket-Rear
4-15-0100 / 172475	13	Screw 13-16 x 3/4" Hi-Lo Pan Head
4-15-0102 / 172471	14	Gasket-Front Face Plate
4-15-0103 / 172472	15	Face Plate
4-15-0104 / 172474	16	Screw 13-16 x 1-1/4" Hi-Lo Flat Head
4-15-0105 / 172469	17	Weir Gate Assembly
4-15-0106 / 172473	17	Safety Face Plate Cover (white)
4-15-0107 / 172483	18	Screw 13-16 x 1-5/8" Hi-Lo Flat Head
4-15-0108 / 172605	19	Screw Hole Plug
4-15-0109 / 172560	20	Opt. DSF Chlorine/Bromine Dispenser
4-15-0110 / 172392	N/S	1/4" Access Plug (earlier models)
4-15-0111 / 172480	N/S	90 Degree Vac Plate Adapter
4-15-0112 / 172624	N/S	Opt. Extension Flange



COMPLETE FILTERS (Faceplate not included)

ITEM# / MFG#	REF	DESCRIPTION
4-00-0087 / R172550*	5	50 sq. ft. Cartridge, 1-1/2" Socket Conn.
4-00-0032 / R172554*	5A	35 sq. ft. Cartridge, 1-1/2" Socket Conn.



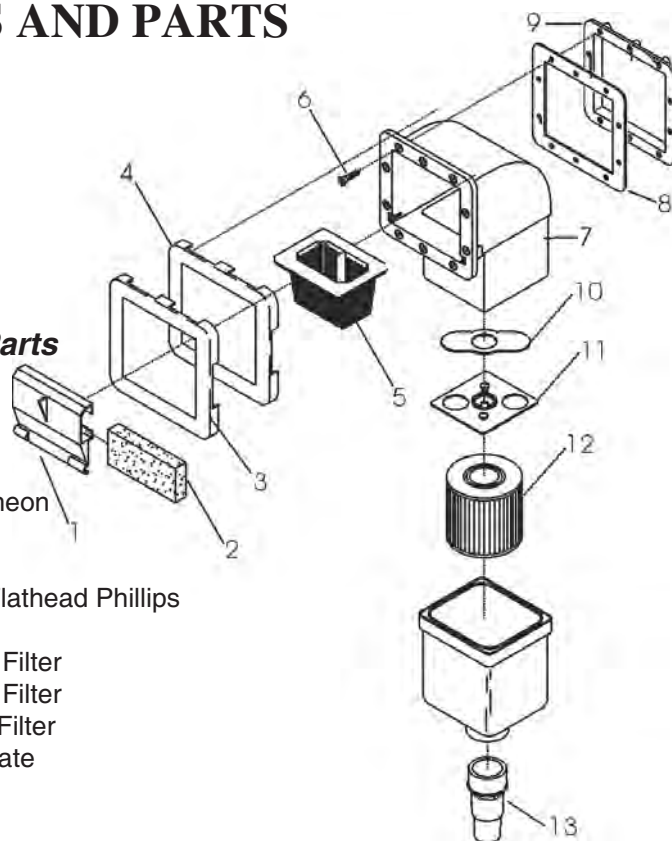
***Faceplate Kit Sold Separately**



SKIMMERS AND PARTS

Spa Skimmer & Skim Filter Replacement Parts

ITEM# / MFG#	REF	DESCRIPTION
4-15-0008 / 519-4050	1	Weir, Floating
4-15-0009 / 865-1000	2	Foam, Weir
4-15-0010 / 916-1010	3	Optional - S/S Escutcheon
4-15-0011 / 519-4040	4	Trim Plate, Plastic
4-15-0012 / 519-4030	5	Basket
4-15-0013 / 819-6930	6	Screw, No. 8 x 11/2. Flathead Phillips
4-15-0014 / 550-4060	7	Body, Spa Skimmer
4-15-0015 / 550-4080	7	Body, 10 Sq. Ft. Skim Filter
4-15-0016 / 550-4090	7	Body, 20 Sq. Ft. Skim Filter
4-15-0017 / 806-1070	8	Gasket, Square Skim Filter
4-15-0018 / 519-1600	9	Optional - Mounting plate
4-15-0019 / 519-4010	10	Diverter, Upper
4-15-0020 / 519-4060	11	Diverter, Lower
4-05-0245 / 817-0010	12	Filter Cartridge, 10 Sq. Ft.
4-15-0022 / 417-6080	13	Optional - Hose Adapter



4-15-0116 / 510-9550 Skimmer Dyna-Flo Plus
 Hi Volume; 15 GPM Minimum; 21 1/8"

4-15-0081 / 510-6550 Skimmer Dyna-Flo Top Mount Lo Profile
 Hi Volume; 15 GPM Minimum; 19 5/8"

4-00-0114 / 510-3540 Skimmer Dyna-Flo Lo Profile
 8 GPM 2", 40 Sq. Ft.



Photo
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SKIMMERS AND PARTS

ITEM# / MFG#	DESCRIPTION
4-15-0123 / 30133-WH	Suction Cover White
4-40-0278 / 30147	Wall Fitting



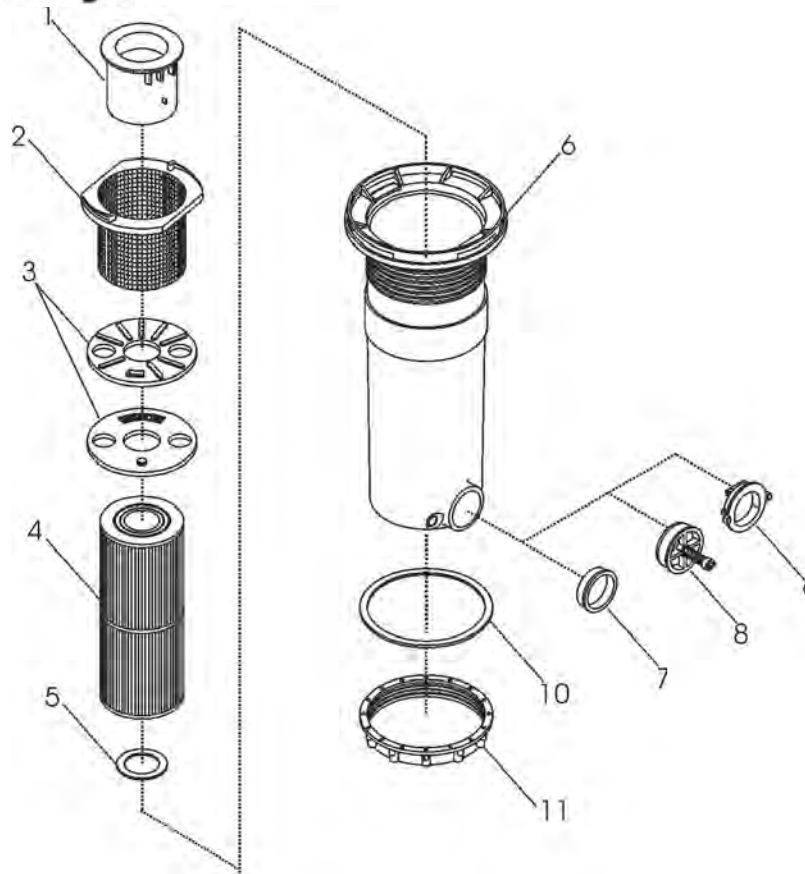
Suction Cover White



Wall Fitting



SKIMMERS AND PARTS

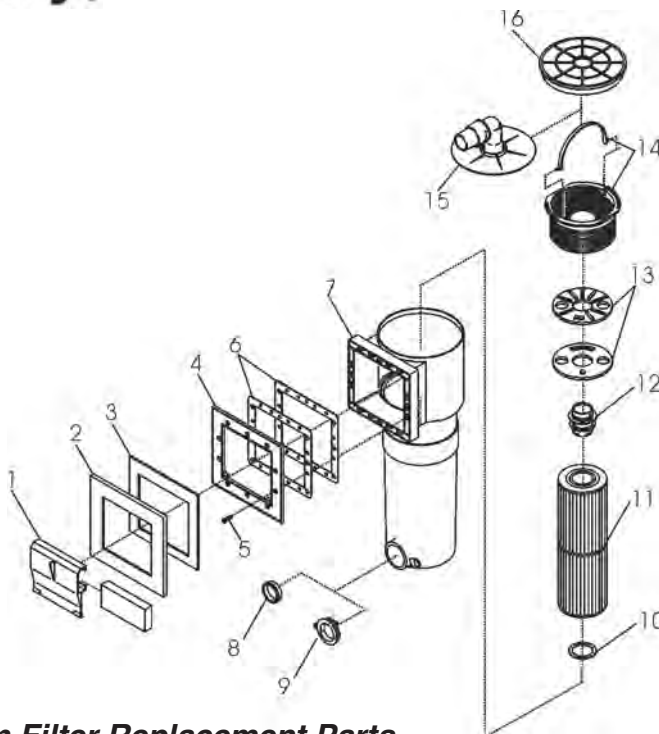


Top Mount Skim Filter Replacement Parts

ITEM# / MFG#	REF	DESCRIPTION
4-15-0023 / 519-2080	1	Round, Weir
4-15-0026 / 519-2087	1	Round, Weir Top Mount, Gray
4-15-0024 / 519-2090	2	Basket, Top Mount
4-15-0027 / 519-2097	2	Basket, Top Mount, Gray
4-15-0025 / 519-3010	3	Diverter Plate
4-05-0101 / 817-2500	4	Filter, 25 Sq. Ft. Cartridge
4-05-0105 / 817-5000	4	Filter, 50 Sq. Ft. Cartridge
4-15-0028 / 711-1010	5	Spacer Ring, Filter
4-15-0029 / 550-1070	6	Body, with Bypass Valve 1 1/2"
4-15-0030 / 550-1120	6	Body, with Plug 1 1/2"
4-15-0033 / 715-1010	7	1 1/2" Plug
4-15-0034 / 715-9900	7	2" Plug
4-15-0035 / 600-1000	8	1 1/2" Bypass Valve Assembly
4-00-0103 / 600-1040	9	2" Bypass Valve Assembly
4-15-0037 / 711-5000	10	Gasket
4-15-0038 / 718-1000	11	Nut



SKIMMERS AND PARTS



Front Access Skim Filter Replacement Parts

ITEM# / MFG#	REF	DESCRIPTION
4-15-0039 / 542-3060	1	Weir Door with Foam, White
4-15-0040 / 519-3090	2	Trim Plate - ABS White
4-15-0041 / 216-1000	3	Optional - Trim Plate, Stainless Steel
4-15-0042 / 519-3180	4	Mounting Plate, Long Throat Only (Shown)
4-15-0043 / 519-3080	4	Mounting Plate, Short Throat Only
4-15-0044 / 819-0006	5	Screw, #12 x 11/4. PGH 18-8 Sms
4-15-0045 / 806-1040	6	Gasket - Mounting
4-15-0046 / 550-5020	7	1 1/2" Short Throat, F/A Skim Filter, Body Assembly with Bypass Valve
4-15-0048 / 550-5030	7	1 1/2" Short Throat, F/A Skim Filter, Body Assembly with Plug
4-15-0050 / 550-5160	7	2" Short Throat, F/A Skim Filter, Body Assembly with Bypass Valve
4-15-0052 / 550-5170	7	2" Short Throat, F/A Skim Filter, Body Assembly with Plug
4-15-0033 / 715-1010	8	Plug, 1 1/2"
4-15-0034 / 715-9900	8	Plug, 2"
4-15-0056 / 600-1000	9	Bypass Valve, 1 1/2"
4-15-0103 / 600-1040	9	Bypass Valve, 2"
4-15-0058 / 711-1010	10	Spacer Ring, Filter
4-05-0097 / 817-3510	11	Cartridge, 35 Sq. Ft., 2-Piece
4-15-0060 / 519-3100	12	Skimmer Collar Plate Filter Front Access
4-15-0025 / 550-1020	13	Skimmer Diverter Plate Assembly (2)
4-15-0061 / 550-6570	12 & 13	Skimmer Plate (2) & Collar Assembly
4-15-0062 / 550-1220	14	Basket Assembly with Handle
4-15-0063 / 579-3150	15	Vacuum Plate with 90° Ell Hose Adapter
4-15-0064 / 519-3030	16	Lid

SKIMMERS AND SUCTIONS

Hydro Air - Skimmers

ITEM# / MFG#	DESCRIPTION
4-15-0073 / 10-6500	Wall Straight Nut Complete
4-15-0074 / 10-6509 4-40-0285 / 30-6103WHT	Wall 90° Nut Complete Nut 90 PVC White



Hydro Air - Suctions

4-15-0075 / 10-6909	Assembly Slimline 90° Complete, 1.5S
4-40-1514 / 10-6939MSN	Suction Assembly Extended Satin Nickel
4-15-0076 / 10-6800 4-15-0121 / 10-6800BON	Assembly Hi Volume- Straight, 1.5S Assembly Hi Volume- Straight, 1.5S, Bone
4-15-0080 / 10-6809 4-15-0080BK / 10-6809BLK	Assembly 90° Suction, 1.5S (shown right) Assembly 90° Suction, Black, 1.5S
4-15-0077 / 10-6806 4-15-0077B / 10-6806BON 4-15-0077C / 10-6806STR SLV 4-15-0053 / 10-6806M PB 4-15-0051 / 10-6806M PC 4-15-0054 / 10-6806BIS	Cover Hi Volume w/ Adapt, 1.5S Skimmer Suction Cover Bone Skimmer Suction Cover Sterling Silver Skimmer Suction Cover Polished Brass Skimmer Suction Cover Polished Chrome Skimmer Suction Cover Hi Biscuit



Waterway - Suctions

4-15-0078 / 640-3637	Super Hi Flow 2" Gray
4-15-0079 / 640-3607	Super Hi Flow 2" 90 Elbow Gr
4-15-0119 / 640-3250	Suction Hi Flow 1.5" WW



PENTAIR (RAINBOW) FILTERS AND FILTER PARTS

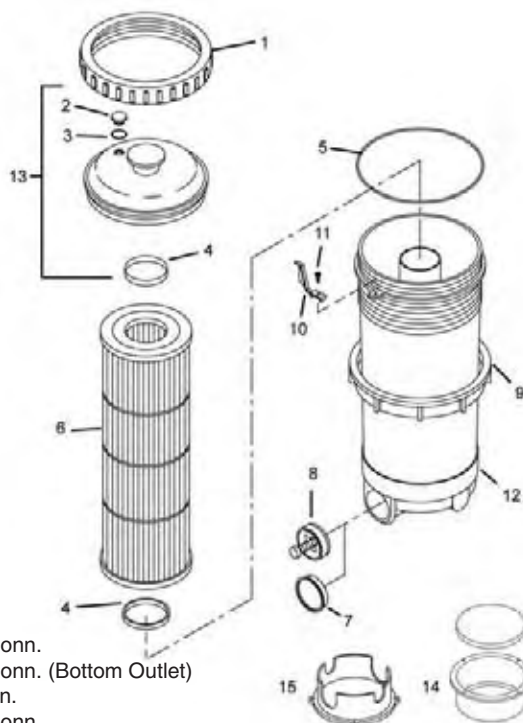
RTL SERIES - Dynamic Series II Top Load

ITEM# / MFG#	REF	DESCRIPTION
4-00-0035 / 172214	1	Lock Ring
4-00-0036 / 172224X	2	Air Vent Valve
4-00-0037 / 172221	3	O-ring for Air Vent Valve
4-00-0024 / 172222	4	Gasket, Cartridge
4-00-0025 / 172223	5	O-ring, Lid to Housing
4-05-0101 / C-4625	6	25 sq. ft. Cartridge 3 oz.
4-05-0105 / C-4950	6	50 sq. ft. Cartridge
4-00-0038 / 172225X	7	Plug to disable by-pass
4-00-0039 / 172226	8	By-Pass Assembly
4-00-0030 / 172370	9	Bottom Locking Flange
4-00-0040 / 172374	10	Lock Spring
4-00-0041 / 6N37TXPS	11	Lock Screw
4-00-0042 / 172386	12	RTL-25 Canister Assy, 1-1/2"S
4-00-0043 / 172387	12	RTL-25T Canister Assy, 1-1/2"FPT
4-00-0044 / 172390B *	12	RTLB-25 Canister Assy, 1-1/2"S
4-00-0045 / 172421	12	RTL-25 Canister Assy, 2"S
4-00-0046 / 172428	12	RTL-50 Canister Assy, 2"S
4-00-0029 / 172385	13	Lid Assembly Complete
4-00-0047 / 172542WH	14	Niche Assembly (Sold Separately)
4-00-0048 / 172452	15	Base Assembly (Sold Separately)

* This canister has an "optional" bottom outlet.

COMPLETE FILTERS

4-00-0050 / 172500	25 sq. ft. Cartridge, 1-1/2" Socket Conn.
4-00-0051 / 172502B	25 sq. ft. Cartridge, 1-1/2" Socket Conn. (Bottom Outlet)
4-00-0052 / 172510	25 sq. ft. Cartridge, 1-1/2" FPT Conn.
4-00-0053 / 172504	50 sq. ft. Cartridge, 1-1/2" Socket Conn.
4-00-0054 / 172514	50 sq. ft. Cartridge, 1-1/2" FPT Conn.
4-00-0055 / 172503	75 sq. ft. Cartridge, 2" Socket Conn.
4-00-0027 / 172502J	25 sq. ft. Bottom Mount 2" Slip
4-00-0028 / 172504B	50 sq. ft. Bottom Mount 2" Slip

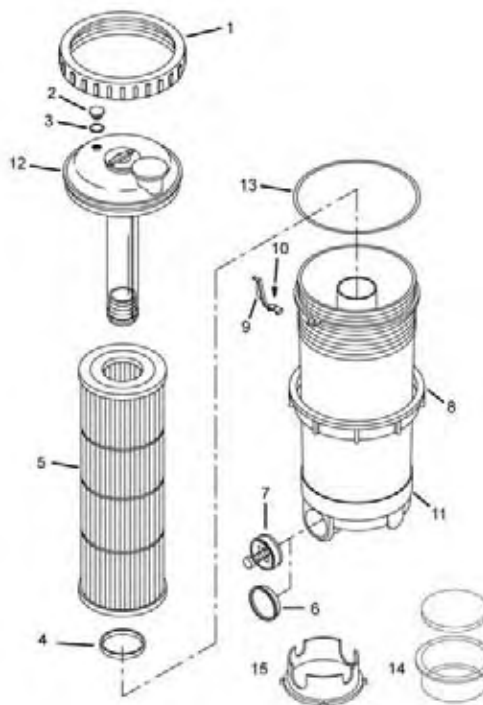


RCF SERIES - Dynamic Series III Top Load

ITEM# / MFG#	REF	DESCRIPTION
4-00-0035 / 172214	1	Lock Ring
4-00-0036 / 172224X	2	Air Vent Valve
4-00-0037 / 172221	3	O-ring for Air Vent Valve
4-00-0064 / 172222	4	Gasket, Cartridge
4-05-0101 / C-4625	5	25 sq. ft. Cartridge
4-05-0105 / C-4950	5	50 sq. ft. Cartridge
4-00-0038 / 172225X	6	Plug to Disable By-Pass, 1-1/2"Sp
4-00-0039 / 172226	7	By-Pass Assembly
4-00-0030 / 172370	8	Bottom Locking Flange
4-00-0040 / 172374	9	Lock Spring
4-00-0041 / 6N37TXPS-B10	10	Lock Screw
4-00-0042 / 172386	11	RCF-25 Canister Assy, 1-1/2"S
4-00-0043 / 172387	11	RCF-25T Canister Assy, 1-1/2"FPT
4-00-0045 / 172421	11	RTL-25 Canister Assy, 2"S
4-00-0046 / 172428	11	RTL-50 Canister Assy, 2"S
4-00-0069 / 172540	12	Chlorine/Bromine Dispenser
4-00-0025 / 172223	13	O-ring Lid to Housing
4-00-0047 / 172542WH	14	Niche Assembly (Sold Separately)
4-00-0048 / 172452	15	Base Assembly (Sold Separately)

COMPLETE FILTERS

4-00-0056 / 172522	25 sq. ft. Cartridge, 1-1/2" Socket Conn.
4-00-0057 / 172524	50 sq. ft. Cartridge, 1-1/2" Socket Conn.
4-00-0058 / 172532	25 sq. ft. Cartridge, 1-1/2" FPT Conn.



PENTAIR (RAINBOW) FILTERS AND FILTER PARTS

RCF-RTL SERIES

ITEM# / MFG#	REF	DESCRIPTION
4-00-0060 / 172399	1	Control Valve Stem
4-00-0061 / 33017	2	O-ring, Control Valve
4-00-0062 / 18854	3	Stop Pin
4-00-0036 / 172224X	4	Air Vent Valve
4-00-0037 / 172221	5	O-ring for Air Vent
4-00-0025 / 172223	7	O-ring Housing
4-00-0064 / 172222	8	Gasket, Cartridge
4-00-0065 / 172457	9	Replacement Inner Chamber
4-00-0066 / 172451	10	O-ring, Check Valve
4-00-0067 / 172401	11	Screen, Check Valve
4-00-0068 / 172406	12	Check Valve Assembly
4-00-0024 / 172222	6	Cartridge Gasket (<i>below</i>)
4-00-0029 / 172385	N/A	Manifold Lid Kit Bottom Mount
4-00-0030 / 172370	N/A	Lock Ring (<i>See previous diagram for reference</i>)

COMPLETE FEEDER ASSEMBLIES

4-00-0069 / 172540 RCF-RTL Series Chlorine / Bromine Feeder (Lid Style)

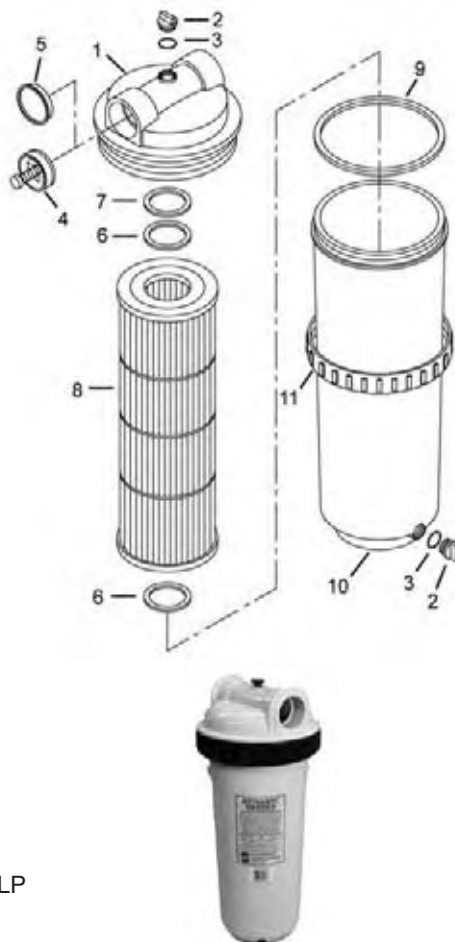


RDC SERIES

ITEM# / MFG#	REF	DESCRIPTION
4-00-0070 / 172213	1	Manifold only, 1-1/2" FPT
4-00-0071 / 172213S	1	Manifold only, 1-1/2" socket
4-00-0072 / 172213XT	1	Manifold only, black, 1-1/2" FPT
4-00-0073 / 172213X	1	Manifold only, black, 1-1/2" socket
4-00-0074 / 172213C	1	Complete Manifold, 1-1/2" FPT
4-00-0075 / 172213SC	1	Complete Manifold, 1-1/2" socket
4-00-0076 / 172213PT	1	Complete Manifold, black, 1-1/2" FPT
4-00-0023 / 172213P	1	Complete Manifold, black, 1-1/2" socket
4-00-0036 / 172224X	2	Drain and Vent Valve, black
4-00-0037 / 172221	3	O-ring for Drain and Vent Valve
4-00-0039 / 172226	4	By-Pass Assembly
4-00-0079 / 172225	5	Plug to disable by-pass
4-00-0038 / 172225X	5	Plug to disable by-pass, black
4-00-0024 / 172222	6	Cartridge Gasket
4-00-0081 / 172232X	7	Gasket Support Ring
4-05-0105 / C-4950	8	Cartridge, 6 oz., 13-1/4" 50 sq. ft.
4-05-0101 / C-4625	8	Cartridge, 6 oz., 13-1/4", 25 sq. ft.
4-00-0025 / 172223	9	O-ring for Cartridge Housing
4-00-0082 / 172212	10	Cartridge Housing
4-00-0083 / 172212X	10	Cartridge Housing, black
4-00-0035 / 172214	11	Lock Ring

COMPLETE FILTERS

4-00-0084 / 172425	Filter RDC 25 Sq Ft 1.5" Thrd
4-00-0021 / 172426A	Filter 25 Sq Ft Top Mnt 1.5 SLP
4-00-0085 / 172425K	Filter Cartridge RDC 50 Sq Ft. 1.5" Thrd
4-00-0022 / 172426K	Filter Cartridge 50 Sq. Ft. Top Mnt 1.5 SLP



PLEATCO FILTER CARTRIDGES

How to use PLEATCO's Dimensional Cross Reference

All Pleatco Cartridges are arranged by size based on the cartridges outside diameter (OD). Furthermore, at a particular OD measurement each cartridge is then listed according to its length (from shortest to longest). The cartridge length is determined by measuring the distance in inches from end cap to end **cap inclusive** of any handle or extension.

Since tolerances may vary from one manufacturer to another it may be necessary to check the next highest or lower series of ID measurements to determine the proper Pleatco Cartridge Model.

OD	LENGTH	BOTTOM ID	TOP ID	PLEATCO	OEM	UNICEL	ALLIED ITEM #
2-3/4"	4-7/8"	1-1/16"	1-1/16"	PH3	Duroc Soft Spider Spas	C-2304	4-05-0307
2-3/4"	6"	1-1/16"	Closed	PH3.7B	Icon Health Fitness	—	4-05-0340
2-3/4"	9-3/4"	1-1/16"	Closed	PH6-TC	Ohio Steel	—	4-05-0341
2-3/4"	9-1/2"	1-1/16"	1-1/16"	PH5.9	Epco	—	4-05-0342
2-3/4"	9-3/4"	1-1/16"	1-1/16"	PH6	Harmsco American Products	T-380	4-05-0070
2-3/4"	9-3/4"	1-1/16"	1-1/16" (3 oz)	PH6-3	American Products, Pac-Fab, Premier, Rainbow, etc.	C-2306	4-05-0343
2-3/4"	14-11/16"	1-1/16"	1-1/16"	PW15 No Core	Wet Institute	C-2601	4-05-0344
2-3/4"	14-11/16"	1-1/16"	1-1/16"	PW15 W/C	Wet Institute	C-2607	4-05-0345
2-3/4"	19-5/8"	1-1/16"	1-1/16"	PRB12 = PJW12	Rainbow	C-2612	4-05-0346
2-3/4"	29-3/8"	1-1/16"	1-1/16" (12 sq ft)	PRB12L	Rainbow	C-2613	4-05-0075
2-3/4"	29-3/8"	1-1/16"	1-1/16" (18 sq ft)	PRB18	Rainbow	C-2618	4-05-0347
2-7/8"	17-1/16"	1-1/16"/open	1-1/16"/open (14.5 sq ft)	PRB 14.5	Emerald, Rainbow	C-2302	4-05-0115
2-7/8"	17-1/16"	2-1/8"/open	2-1/8"/open (8.5 sq ft)	PRB 8.5	Emerald, Rainbow	C-2303	4-05-0116
3-1/4"	9-3/4"	1-1/16"	Closed	PS9	Alcove	C-3608	4-05-0348
3-1/4"	14-11/16"	1-1/16"	1-1/16"	PS12	Sylvan	C-3612	4-05-0349
4-1/4"	4-1/16"	2"	2"	PWW10	Waterways Icon Health Fitness, PDC Spas	C-4310	4-05-0245
4-1/4"	5-1/4"	2"	Posi-Grip Handle	PIC 10	Icon	—	4-05-0310
4-1/4"	8"	1-3/4"	1-3/4" (5 sq ft)	PGF5	General Foam	C-4306	4-05-0350
4-1/4"	8"	2"	2"	PC7-120	Coleco/SLM Top plug required	C-4607	4-05-0351
4-1/4"	8"	2"	Closed	PC7-TC	SLM/Buddy L /Empire Mfg	C-4304	4-05-0352
4-1/4"	8"	2-3/16"	2-3/16"	PMS8-N/C	Muskin	C-4602	4-05-0353
4-1/4"	11"	2"	2"	PHP11	Haugh's	C-4603	4-05-0312
4-1/4"	18"	2"	2"	PHP18	Haugh's	C-4604	4-05-0354
4-3/8"	7-3/4"	1.90" 1-1/2" MPT	Closed	PVT25N w/PAD AD	Vita/DM		4-05-0596
4-3/8"	13"	1.90" 1-1/4" SAE	Posi-Grip Handle	PDO-UF25 w/1-1/4"SAE AD	Dimension One	4CH-950	4-05-0355
4-3/8"	16"	1.90" 1-1/4" SAE	Posi-Grip Handle	PDO-UF40 w/1-1/4"SAE AD	Dimension One	4CH-940	4-05-0356
4-1/2"	8"	2-1/4"	2-1/4"	PMS8	Muskin	C-4605	4-05-0353

PLEATCO FILTER CARTRIDGES (continued)

OD	LENGTH	BOTTOM ID	TOP ID	PLEATCO MODEL	OEM	UNICEL	ALLIED ITEM #
4-1/2"	8"	2-1/4"	Closed	PMS8-T/C	Swim-N-Play	—	4-05-0357
4-1/2"	9-3/4"	1-1/16"	1-1/16"	PSR15	Sta-Rite	C-4610	4-05-0358
4-5/8"	9-1/4"	1.90"	Posi-Grip Handle (13 sq ft)	PA13	Alcove	—	4-05-0359
4-5/8"	9-1/4"	1.90"	Posi-Grip Handle (17 sq ft)	PA17 = PTL 18	Alcove	—	4-05-0360
4-5/8"	9-1/4"	1.90" 1-1/2" MPT	Posi-Grip Handle (18 sq ft)	PTL18 w/PAD AD	Pageant Spa Pageant Spa	4CH-19	4-05-0362
4-5/8"	10-1/2"	Closed	4/5"	PD12	Doughboy	—	4-05-0363
4-5/8"	11-7/8"	2-1/16"	2-1/16" (12 sq ft)	PA12	Hayward	C-4312	4-05-0364
4-5/8"	11-7/8"	2-1/16"	2-1/16" (20 sq ft)	PA20	Hayward, American Products	C-4320/C-4620	4-05-0365
4-5/8"	11-7/8"	2-1/16"	2-1/16" (25 sq ft)	PA225	Hayward, American Products	C-4325/C-4327	4-05-0087
4-5/8"	12-7/8"	1-3/8"	Posi-Grip Handle	PCP20	Nemco	C-4403	4-05-0366
4-5/8"	6 3/4"	1.90" 1-1/2" MPT	Posi-Grip Handle (20 sq ft)	PTL20 w/PAD AD	Suntub		4-05-0368
4-5/8"	13"	1.90" 1-1/2" MPT	Posi-Grip Handle (25 sq ft)	PTL25 w/PAD AD	Advanced/ Sundance Advanced, Avalon, Blue Pacific, Catalina/Caribbean, Charisma, Continental, Down East, Dimension One (use "H" Handle Top), Esther Williams/ Johnny Weismuller, Florida Whirlpool, Gatsby, Hydro Spa, Leisure Life, Seascape, Softub	C-5621 4CH-30	4-05-0235
4-5/8"	16-3/4"	2-1/16"	Closed Castle	PSD40	Sundance	C-4440	4-05-0276
4-11/16"	11"	1.90"	Posi-Grip Handle (25 sq ft)	PAQ25N	American, Aqua Spa	C-4402	4-05-0369
4-11/16"	11"	1.90" 1-1/2" MPT	Posi-Grip Handle (25 sq ft)	PGS25 w/PAD AD	Gatsby, American Dream (PTL20HS-Hydrop Spa)	C-4323 4CH-24	4-05-0370
4-3/4"	8"	1-3/4"	1-3/4" (7 sq ft)	PGF7	General Foam	C-4307	4-05-0376
4-3/4"	8"	1-3/4"	1-3/4" (10 sq ft)	PGF10	General Foam	C-4309	4-05-0377
4-3/4"	8"	1-3/4"	1-3/4" (15 sq ft)	PGF15	General Foam		4-05-0378
4-3/4"	8"	1-1/8"	2-1/2"	PC8	Coleco/Cyclone Pool Vac	C-4608	4-05-0379
4-3/4"	11"	1-1/8"	2-1/2"	PC11	Coleco	C-4611	4-05-0380
4-3/4"	12-1/2"	1.90" 1-1/2" MPT	"H" Handle Top	PTL25-"H"	Dimension One	4CH-30	4-05-0381
4-3/4"	14-1/2"	1.90" 1-1/2" MPT	Posi-Grip Handle	PTL40 w/PAD AD	Quality Sundance, Superior Spa	— —	4-05-0383
4-3/4"	15-1/2"	1.90" 1-1/2" MPT	Top Handle Top	PTL50-"H"	Dimension One	4CH-50	4-05-0384
4-3/4"	16"	1.90" 1-1/2" MPT	Posi-Grip Handle	PTL35 (35 sq ft) w/PAD AD	Hot Springs Spa/ Sundance	4CH-35	4-05-0298
4-3/4"	16"	1.90" 1-1/2" MPT	Posi-Grip Handle	PTL50 (50 sq ft) w/PAD AD	Advanced, Florida Whirlpool Addison, Spillway Spas	4CH-50	4-05-0261
4-3/4"	16"	1-1/8"	2-1/2"	PC16	Coleco	C-4616	4-05-0388

PLEATCO FILTER CARTRIDGES (continued)

OD	LENGTH	BOTTOM ID	TOP ID	PLEATCO MODEL	OEM	UNICEL	ALLIED ITEM #
4-3/4"	18"	1-1/8"	2-1/2" (Perm. Core)	PL18	Lomart	C-4601	4-05-0389
4-3/4"	18"	1-1/8"	2-1/2" (Fl. Core)	PC18	Coleco	C-4618	4-05-0390
4-3/4"	20-3/4"	1.90" 1-1/2" MPT	"H" Handle Top	PTL65-"H" w/PAD AD	Dimension One	4CH-65	4-05-0392
5"	4-5/8"	2-1/8"	2-1/8" (2)=35 sq ft	PRB17.5 SF PR	Rainbow/Waterways/Sundance	C-4401	4-05-0097
5"	5-3/4"	1.90"RT	Posi-Grip Handle	PSS17.5	Soft-Sider	C-4302	4-05-0393
5"	6-5/8"	2-1/8"	2-1/8" (2)=50 sq ft	PRB25 SF PR	Rainbow/Waterways/Sundance	C-4405	4-05-0098
5"	7-3/4"	1.90" 1-1/2" MPT	Posi-Grip Handle (10 sq ft)	PSG-10 w/PAD AD	Saratoga	4-CH-10	4-05-0395
5"	7-3/4"	1.90" 1-1/2" MPT	Posi-Grip Handle (25 sq ft)	PSG25/ PVT25 w/PAD AD	Saratoga, Vita Oasis	C-4303 4CH-20	4-05-0313
5"	7-3/4"	1.9" w/SR	Posi-Grip Handle	PHC25	Hercules	—	4-05-0398
5"	17-3/8"	2-1/8" (T/ B-3)	2-1/8" (T/T-3) (50 sq ft)	PAE50	Advantage Electric	C-4349	4-05-0600
5"	8-3/16"	1.50"	Closed	PVP25	Vogue Product	—	4-05-0399
5"	9-1/4"	2-1/8"	2-1/8"	PRB35-IN-3	Waterways, Rainbow	C-4335	4-05-0166
5"	9-7/8"	2-1/8"	Closed	PPI25	Seven Seas Spas	C-4328	4-05-0400
5"	10-3/8"	1.90"	1.90"	PWK30-220V	Watkins Mfg	C-5431	4-05-0401
5"	10-1/2"	2-1/8"	2-1/8"	DSF25-50	Nemco/Rainbow	C-4429	4-05-0268
5"	11-1/4"	2-1/8"	2-1/8"	PWW40	Waterways	C-4339	4-05-0247
5"	11-5/8"	2-1/8"	2-1/8" (40 sq ft)	PMT40	Dimension One	C-4340	4-05-0402
5"	11-7/8"	2-1/8"	2-1/8" (25 sq ft)	PMT25	Martec	C-4332	4-05-0103
5"	11-7/8"	2-1/8"	2-1/8" (35 sq ft)	PMT 35	Martec	C-4332	4-05-0108
5"	13-5/16"	2-1/8"	2-1/8" (25 sq ft)	PRB25IN	Rainbow/Waterways	C-4635/C- 4326	4-05-0101
				PRB25IN	Baker Hydro	C-4625	4-05-0101
				PRB25IN	Premier	C-4625	4-05-0101
				PFAB30	Pac-Fab	C-5623	4-05-0101
5"	13-5/16"	2-1/8"	2-1/8" (37 sq ft)	PRB37IN	Rainbow/Waterways	C-4637	4-05-0406
5"	13-5/16"	2-1/8"	2-1/8" (50 sq ft)	PRB50IN	Rainbow/Waterways/Sundance	C-4950	4-05-0105
5"	13-5/16"	2-3/8"	2-3/8" (25 sq ft)	PJ25IN	Jacuzzi	C-5625	4-05-0114
5"	13-5/16"	2-3/8"	2-3/8" (37 sq ft)	PJ37IN	Jacuzzi	C-5635	4-05-0282
5"	14-1/2"	1.90" w/SR	Posi-Grip Handle	PHC50	Hercules	—	4-05-0408
5"	14-11/16"	2-1/8"	2-1/8" (25 sq ft)	POX25-IN	Onyx	—	4-05-0409
5"	14-11/16"	2-1/8"	2-1/8" (50 sq ft)	POX50-IN	Onyx	—	4-05-0410
5"	14-13/16"	2-1/8"	2-1/8" (27.5 sq ft)	PMT27.5	Martec/Sanfarrel	C-4301	4-05-0266
5"	14-13/16"	2-1/8"	2-1/8" (45 sq ft)	PMT45	Martec/Sanfarrel	C-4347	4-05-0411
5"	14-13/16"	2-1/8"	Closed (45 sq ft)	PST45	Spa-Tec	C-4346	4-05-0412
5"	14-13/16"	2-1/8"	2-1/8" (50 sq ft)	PMT50	Martec/Cal Spas	C-4305	4-05-0107
5"	17-3/4"	2-1/8"	Closed	PSI45	Pageant Spa	C-4346	4-05-0414
5"	20-1/8"	2-1/8"	2-1/8"	PRB75	Rainbow	C-4975	4-05-0415
5"	23-11/16"	2-1/8"	2-1/8"	PCAL75	Cal-Spa/Waterways	C-4970	4-05-0416
5"	23-11/16"	2-1/8"	2-1/8"	PCAL100	Cal-Spa/Waterways	C-4995/C- 4970	4-05-0417
5"	26-1/2"	2-1/8"	2-1/8"	PRB100	Rainbow	C-4999	4-05-0418



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PLEATCO FILTER CARTRIDGES (continued)

OD	LENGTH	BOTTOM ID	TOP ID	PLEATCO MODEL	OEM	UNICEL	ALLIED ITEM #
5-3/16"	9-1/2"	3" NPT	Posi-Grip Handle (T-4) (35 sq ft)	PLAS35	LA Spas	Replaces Skim Basket(s)	4-05-0597
5-3/16"	11-7/8"	1-5/8"	1-5/8"	PPR23	Premier	C-5427	4-05-0275
5-3/16"	11-7/8"	1-5/8"	Closed (25 sq ft)	PPM25	Pacific Marquis	C-5622/C-5626	4-05-0119
5-3/16"	11-7/8"	1-5/8"	Closed (35 sq ft)	PPM35	Pacific Marquis	C-5423	4-05-0420
5-3/16"	14-1/8"	1-5/8"	Closed	PPM50	Pacific Marquis	C-5346	4-05-0372
5-3/16"	14-3/4"	1-5/8"	1-1/16" (30 sq ft)	PPM30	Marlin Spa	C-5627	4-05-0421
5-3/16"	19-5/8"	1-5/8"	Closed (40 sq ft)	PPM40	Pacific Marquis	C-5636/C-5637	4-05-0262
5-3/16"	19-5/8"	1-5/8"	Closed (60 sq ft)	PPM60	Pacific Marquis	C-5434	4-05-0422
5-3/16"	23-1/4"	1-5/8"	1-5/8"	PPR75	Premier	C-5371	4-05-0423
5-5/16"	10-1/8"	2-1/8" (T/B-4)	2-1/8" (T/B-4) (50 sq ft)	PLBS50	Leisure Bay, Waterways	C-5345	4-05-0496
5-3/8"	7-3/4"	2-1/8"	Closed	PA10VF	Hayward	—	4-05-0424
5-1/2"	8-7/8"	Open Off Ctr Co	Open 2-1/8" (30 sq ft)	PST30	Softub Spas		4-05-0302
5-1/2"	11-1/4"	3"	1-15/16"x3"	PDO25	Dimension One	C-5402	4-05-0281
5-1/2"	17-5/8"	3"	1-15/16"x3"	PDO40	Dimension One	C-5404	4-05-0216
5-5/8"	10-3/8"	2-1/8"	Closed (25 sq ft) 3 oz	PJW23-3	Jacuzzi Whirlpool	C-5601	4-05-0124
5-5/8"	10-3/8"	2-1/8"	Closed (25 sq ft) 4 oz	PJW23	Jacuzzi Whirlpool	—	4-05-0124
5-5/8"	10-3/8"	2-1/8"	Closed (50 sq ft)	PJW50	Grecian Spa (replaces PJW23)	C-5300	4-05-0308
5-5/8"	11-7/8"	2-1/8"	2-1/8"	PJW25	Jacuzzi Whirlpool	C-5624	4-05-0126
5-3/4"	7-3/4"	1.90"w/RT	Posi-Grip Handle	PAT25	Haugh's, Atlantic Pools		4-05-0426
5-3/4"	8-3/4"	1.90"	Posi-Grip Handle	PAS35 w/PAD AD	Artesian Spas		4-05-0427
5-3/4"	14-1/2"	1.90"w/RT	Posi-Grip Handle	PAT50	Haugh's, Atlantic Pools		4-05-0429
5-15/16"	16"	1-3/8"	Posi-Grip Handle	PCP50	Nemco	C-5405	4-05-0430
6"	5-5/8"	1.90" 1-1/2" MPT	Posi-Grip Handle	PDS22 w/PAD AD	Dolphin Spa	6CH-22	4-05-0432
6"	6-3/4"	1.9" 1-1/2" MPT	Posi-Grip Handle	PTL20W-SV w/PAD AD	Softub	6CH-25	4-05-0244
6"	7-1/2"	1.90" 1-1/2" MPT	Posi-Grip Handle	PTL25W-SV w/PAD AD	Artesian Spa Thermo Spa	6CH-26	4-05-0434
6"	8-1/4"	1-1/2"	Side Grip Handle	PLW25	Seasonmaster	C-5325/5326	4-05-0436
6"	9"	1.90" 1-1/2" SAE	Posi-Grip Handle	PWW50 w/1-1/2" SAE	Waterways AD	6CH-940	4-05-0437
6"	9"	1-15/16"	1-15/16"	PWK35	Watkins Spa	C-6433	4-05-0299
6"	9-1/4"	1.9 (B-15)	Top Load Posi-Grip Handle (T-9) (2) = 100 sq ft	PWW50	Waterway, Sunbelt, Vita	6CH-940	4-05-0316
6"	10-1/4"	1.90" 1-1/2" MPT	Posi-Grip Handle	PTL47W w/PAD AD	LA Spas, Advanced Spas	6CH-47	4-05-0439
6"	10-1/2"	1-15/16"	1-15/16"	PWK30	Watkins Spa	C-6430	4-05-0240
6"	11"	1.90"	Posi-Grip Handle	PTL25W-w/PAD AD	Four Seasons	—	4-05-0277
6"	11"	1.90" (w/ slots)	Posi-Grip Handle	PAQ25-0	Aqua Spa / Four Seasons	C-6601	4-05-0130

PLEATCO FILTER CARTRIDGES (continued)

OD	LENGTH	BOTTOM ID	TOP ID	PLEATCO MODEL	OEM	UNICEL	ALLIED ITEM #
6"	11"	1.90 (B-1)	Posi-Grip Handle (T-9) (35 sq ft)	PTL35W	Therm-Spas	6CH35	4-05-0442
		1-1/2" MPT	(35 sq ft)	PTL35W w/PAD AD	Thermo Spa	6CH-35	4-05-0443
6"	13"	1.90" 1-1/2" MPT	Posi-Grip Handle	PTL30W w/PAD AD	Seven Seas Spas	—	4-05-0443
		1-1/2" MPT	(45 sq ft)	PTL45W w/PAD AD	Freedom Spas	6CH-45	4-05-0445
6"	14-1/2"	1.90" 1-1/2" MPT	Posi-Grip Handle	PTL50W-SV w/PAD AD	LA Spa Charisma Spa	— 6CH-50	4-05-0447
6"	15"	1-1/2"	Side-Grip Handle	PLW50	Seasonmaster	C-5350/5349	4-05-0449
6"	16"	1.90"	Posi-Grip Handle	PTL50W	Four Seasons	C-6475	4-05-0132
6"	16-1/8"	1.90"	Closed	PSI65	Pageant	C-6602	4-05-0550
6"	16-1/4"	1.90" 1-1/2" MPT	Posi-Grip Handle	PTL60W w/PAD AD	Caribbean Spas	6CH-60	4-05-0260
6"	21-1/2"	1-1/2"	Side-Grip Handle	PLW75	Seasonmaster	C-5375/5376	4-05-0552
6"	28"	1-1/2"	Side-Grip Handle	PLW100	Seasonmaster	C-5399/5398	4-05-0553
6-1/8"	11-7/8"	1-15/16"	1-15/16"	POX50	Onyx	C-6405	4-05-0554
6-1/8"	17-3/4"	1-15/16"	1-15/16"	POX75	Onyx	C-6407	4-05-0555
6 1/8"	18"	1-15/16"	1-15/16"	PAQ75	Aquatemp	C-6408	4-05-0556
6-1/4"	8"	2-5/8"	2-5/8" (10 sq ft)	PMS10	Muskin	C-6610	4-05-0557
6-1/4"	8"	2-5/8"	2-5/8" (16 sq ft)	PMS16	Muskin	C-6616	4-05-0558
6-1/4"	8"	2-5/8"	2-5/8" (20 sq ft)	PMS20	Muskin	C-6620	4-05-0559
6-1/4"	11-1/4"	2-5/8"	2-5/8" (40 sq ft)	PMS40	Muskin	—	4-05-0305
6-1/4"	11-7/8"	3"	3" (25 sq ft)	PWK25	Watkins	C-6600	4-05-0135
6-1/4"	11-7/8"	3"	3" (40 sq ft)	PWK40	Watkins	C-6600	4-05-0560
6-3/4"	10"	4-1/8"	4-1/8"	PD110 FAB	Doughboy	—	4-05-0561
6-3/4"	15"	4-1/8"	4-1/8"	PD15 FAB	Doughboy	—	4-05-0562
6-3/4"	17"	3"	3"	PC-17	Coleco	C-6617	4-05-0563
6-3/4"	22-3/8"	3"	3"	PC22	Coleco	C-6622	4-05-0564
7"	7-5/8"	Plastic 2" Slip	Plastic Handle	PBH12.5	Baker Hydro	C-7003	4-05-0565
7"	8-3/4"	1-1/2"	Lock-In Handle	PD20SL	Doughboy	C-7401	4-05-0566
7"	8-3/4"	2.62"L 2" NPT	Reinf. Polyurethane Handle	PAS35-2 w/2" NPT AD	Artesian Spa		4-05-0567
7"	9-1/4"	1.90" 1-1/2" MPT	Reinf. Polyurethane Handle	PCS32 w/PAD AD	Soft Sider Coleman	C-7432 7CH-32	4-05-0311
7"	9-1/4"	2.62"L 2" NPT	Reinf. Polyurethane Handle	PCS32-2 w/2" NPT AD	Coleman	7CH-322	4-05-0257
7"	9-7/8"	2"	2"	PCP25	Nemco	—	4-05-0571
7"	9-7/8"	3"	3" (25 sq ft)	PCM25	American Prod	C-7425/C-7625	4-05-0314
				PPR25	Premier	C-7425	4-05-0314
				PPC25	Sta-Rite	C-7435	4-05-0314
7"	9-7/8"	3"	3" (35 sq ft)	PCM35	American Prod	C-7435	4-05-0540
7"	9-7/8"	3" (Uret Gask.)	3"	PA25	Hayward	C-7426	4-05-0154

PLEATCO FILTER CARTRIDGES (continued)

OD	LENGTH	BOTTOM ID	TOP ID	PLEATCO MODEL	OEM	UNICEL	ALLIED ITEM #
7"	11"	1.90"	Reinf. Polyurethane Handle (25 sq ft)	PTL25XW w/PAD AD	Four Seasons	C-7624	4-05-0572
7"	11"	1.90"	Reinf. Polyurethane Handle	PVT40	Vita Spas	C-7439	4-05-0573
		1-1/2" MPT	(40 sq ft)	PCS40 w/ PAD AD	Coleman	7CH-40	4-05-0573
7"	11"	2.62"L 2"NPT	Reinf. Polyurethane Handle	PCS40-2 w/2"NPT AD	Coleman		4-05-0589
7"	11-1/8"	3"	3" (25 sq ft)	PPF25	Purex	C-7610	4-05-0575
7"	11-1/8"	3"	3" (40 sq ft)	PPF40	Purex	C-7440	4-05-0575
7"	11-1/2"	1-1/2"	Lock-In Handle	PD40SL	Doughboy	C-7402	4-05-0577
7"	11-3/4"	2.62"L 2" NPT	Reinf. Polyurethane Handle	PTL55XW-2 w/2" NPT AD	Dimension One	7CH-552	4-05-0578
7"	11-3/4"	1.90" 1-1/2" SAE	Reinf. Polyurethane Handle	PDO75	Dimension One	7CH-975	4-05-0576
7"	11-7/8"	3"	3"	PCM44	American Prod	C-7437	4-05-0579
7"	11-7/8"	3-1/2"	3-1/2"	PJ25	Jacuzzi	C-6625	4-05-0143
7"	12-1/2"	2" Slip	Low Profile Handle	PCD50	Caldera	C-7451	4-05-0580
7"	12-1/2"	Plastic 2" Slip	Plastic Handle (25 sq ft)	PBH25	Baker Hydro	C-7603	4-05-0581
7"	12-1/2"	Plastic 2" Slip	Plastic Handle (35 sq ft)	PBHUM35	Baker Hydro	C-7404	4-05-0582
7"	13"	1.90"	Posi-Grip Handle	PTL30XW	Seven Seas	C-7630	4-05-0583
7"	14"	3"	3"	PPF33	Purex	C-7433	4-05-0585
7"	14"	3" (Uret Gask.)	3" (40 sq ft)	PA40 (Pres)	Hayward	C-7442	4-05-0586
7"	14"	3" (Uret Gask.)	3" (50 sq ft)	PA50-SV	Hayward	C-7447	4-05-0587
7"	14-1/2"	1.90"	Posi-Grip Handle	PTL40XW	Seven Seas	C-7641	4-05-0278
7"	14-3/4"	1.90" (B-15)	Posi-Grip Handle (T-11) (50 sq ft)	PTL50XW	Gold Key, Wildwater	C-7449	4-05-0258
7"	15"	3-1/2"	3-1/2"	PJW30	Jacuzzi Whirlpool	C-6300	4-05-0142
7"	16"	1.90" w/SR	Posi-Grip Handle	PTL50XW w/OR.B	Gold Key	C-7400	4-05-0588
7"	16"	1.90"	Posi-Grip Handle	PTL50XW/ PVT50	Wildwater (Vita)	C-7449	4-05-0165
7"	16"	1-1/2" MPT	Reinf. Polyurethane Handle	PCS50 w/ PAD AD	Coleman	7CH-50	4-05-0165
7"	16"	1-1/2" MPT	Reinf. Polyurethane Handle	PVT50 w/PAD AD	Vita Spa	7CH-50	4-05-0165
7"	16"	2.62"L 2" NPT	Reinf. Polyurethane Handle	PCS50-2 w/2" NPT AD	Coleman	7CH-502	4-05-0590
7"	16"	2.62"L 2" NPT	Reinf. Polyurethane Handle	PTL 75 XW-2 w/2" NPT AD	Dimension One	7CH-752	4-05-0450
7"	16"	3"	3"	PPF67.5	Purex	C-7467	4-05-0451
7"	16-1/2"	3"	3"	PCM88	American Prod	C-7474	4-05-0170
7"	16-1/2"	2" Slip	Low Profile Handle	PCD75	Caldera	C-7479	4-05-0169
7"	17-1/4"	Plastic 2" Slip	Plastic Handle	PBHUM50 (50 sq ft)	Baker Hydro	C_7405	4-05-0452

PLEATCO FILTER CARTRIDGES *(continued)*

OD	LENGTH	BOTTOM ID	TOP ID	PLEATCO MODEL	OEM	UNICEL	ALLIED ITEM #
7"	17-5/8"	2"	2"	PG45	Gerico	C-6645	4-05-0297
7"	18-7/16"	2-5/8"	2-5/8"	PFAB-75	Pac-Fab	C-7491	4-05-0453
7"	19"	1-1/2"MPT	2-1/2"	PSD90	Sundance		SD6540-487
7"	19-3/8"	3-1/2"	3-1/2"	PJ40	Jacuzzi	C-6640	4-05-0454
7"	19-1/2"	3"	3"	PPC50	Sta-Rite	C-7652	4-05-0455
7"	19-3/4"	2"	2"	PSD50	Sundance	C-6650	4-05-0146
7"	19-3/4"	3"	3" (50 sq ft)	PCM 50	American Prod	C-7450/C-7650	4-05-0315
				PPF50	Purex/Premier	C-7651	4-05-0457
7"	19-3/4"	3"	3" (60 sq ft)	PPF60	Purex	C-7460	4-05-0175
7"	19-3/4"	3"	3" (75 sq ft)	PCM75SV	American Prod	C-7453	4-05-0458
7"	19-3/4"	3"	3" (80 sq ft)	PPF80	Purex	C-7480	4-05-0267
7"	19-3/4"	3" (Uret Gask.)	3" (50 sq ft)	PA50	Hayward	C-7656	4-05-0176
7"	19-3/4"	3" (Uret Gask.)	3" (55 sq ft)	PA55	Hayward	C-7455	4-05-0459
7"	19-3/4"	3" (Uret Gask.)	3" (75 sq ft)	PA75SV	Hayward	C-7477	4-05-0252
7"	20"	1-1/2"	Reinf. Polyurethane Handle	PD60SL	Doughboy	C-6659	4-05-0460
7"	20"	3"	3"	PCM90	American Prod	C-7476	4-05-0461
7"	22-3/4"	Plastic 2" Slip	Plastic Handle	PBH50 (50 sq ft)	Baker Hydro	C-7605	4-05-0178
7"	22-3/4"	Plastic 2" Slip	Plastic Handle	PBHUM75 (75 sq ft)	Baker Hydro	C-7406	4-05-0462
7"	22-3/4"	2"	LP Handle	PD60	Doughboy	C-6659	4-05-0463
7"	24-7/16"	2-5/8"	2-5/8"	PFAB100-SH	Pac-Fab	C-7492	4-05-0464
7"	25-1/2"	3"	3" (105 sq ft)	PPF105	Purex	C-7496	4-05-0279
7"	25-1/2"	3" (Uret Gask.)	3" (100 sq ft)	PA100N	Hayward	C-7487	4-05-0251
7"	26"	3"	3"	PCM125	American	C-7498	4-05-0465
7"	28-1/2"	1-1/2"	Lock-In Handle	PD90SL	Doughboy	C-7409	4-05-0466
7"	29-3/8"	3"	3" (75 sq ft)	PCM75	American Prod	C-7475/C-7675	4-05-0467
7"	29-3/8"	3" (Uret Gask.)	3" (75 sq ft)	PA75	Hayward	C-7676	4-05-0183
7"	29-3/8"	3-1/2"	3-1/2"	PJ60	Jacuzzi	C-6660	4-05-0306
7"	30-3/8"	3"	Plastic Handle	PB75-HD	Wolf Marine	—	4-05-0469
7"	30-7/16"	2-5/8"	2-5/8"	PFAB125	Pac-Fab	C-7493	4-05-0470
7"	32"	Plastic 2" Slip	Plastic Handle	PBH75 (75 sq ft)	Baker Hydro	C-7606	4-05-0184
7"	32"	Plastic 2" Slip	Plastic Handle	PBHUM-100 (100 sq ft)	Baker Hydro	C-7407	4-05-0471
7"	40-1/2"	3"	Plastic Handle	PB100HD (2 = 1 set)	Wolf Marine	—	4-05-0472
7"	42-1/8"	Plastic 2" Slip	Plastic Handle	PBH100 2 = 1 set	Baker Hydro	C-7807	4-05-0473
7"	42-1/8"	Plastic 2" Slip	Plastic Handle	PBHUM-150 (2 = 1 set)	Baker Hydro	C-7408	4-05-0474
7-1/4"	11-3/4"	Twist-Lock Bottom (B-22)	Stand Offs Handle (T-15) (75 sq ft)	PDO75-2000	Dimension One	C-7367	4-05-0296



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PLEATCO FILTER CARTRIDGES (continued)

OD	LENGTH	BOTTOM ID	TOP ID	PLEATCO MODEL	OEM	UNICEL	ALLIED ITEM #
7-1/4"	21-5/8"	2-15/16"	2-15/16"	POX100	Onyx/Aquatemp	C-7410	4-05-0475
7-1/4"	28-13/16"	2-15/16"	2-15/16"	POX135	Onyx/Aquatemp	C-7412	4-05-0476
7-1/2"	9-7/8"	3-1/16"	3-1/16"	PWC25	Waterco	C-7421	4-05-0477
7-1/2"	11-1/8"	3-1/16"	3-1/16"	PFAB50	Pac-Fab	C-7678	4-05-0478
7-1/2"	13-1/2"	3-1/16"	LP Handle (60 sq ft)	PFW60	Fox Wall Pack	C-7463	4-05-0479
7-1/2"	13-1/2"	3-1/16"	LP Handle (80 Sq ft)	PFW80	Fox Wall Pack	C-7463	4-05-0480
7-1/2"	14"	3-1/16"	3-1/16"	PFAB60	Pac-Fab	C-7660	4-05-0288
7-1/2"	14-3/4"	2"	Closed Castle	PSD65	Sundance	C-7465	4-05-0301
7-1/2"	14-3/4"	2-5/8"	Closed Castle	PSD65-2	Sundance	C-7466	4-05-0243
7-1/2"	14-13/16"	2-7/8"	2-7/8" (50 sq ft)	PLB50	Leisure Bay	C-7415	4-05-0481
7-1/2"	14-13/16"	2-7/8"	2-7/8" (65 sq ft)	PLB65/ PMT65	Leisure Bay/Martec	C-7415	4-05-0482
7-1/2"	17-3/4"	2 5/8"		PSD75	Sundance	C-7370	SD6540-483
7-1/2"	18"	3-1/16"	LP Handle (110 sq ft)	PFW110	Fox Wall Pack	C-7464	4-05-0483
7-1/2"	19-3/4"	3-1/16"	3-1/16"	PWC50	Waterco	C-7457	4-05-0484
7-1/2"	20-13/16"	2-7/8"	2-7/8" (100 sq ft)	PLB100	Leisure Bay	C-7418	4-05-0485
7-1/2"	21-7/8"	2-7/8"	2-7/8" (100 sq ft)	PMT100	Martec	C-7419	4-05-0486
7-1/2"	22-1/8"	3-1/16"	3-1/16" (80 sq ft)	PFAB80	Pac-Fab	C-7680	4-05-0487
7-1/2"	22-1/8"	3-1/16"	3-1/16" (100 sq ft)	PFAB100	Pac-Fab	C-7699	4-05-0197
7-1/2"	28-15/16"	2-7/8"	2-7/8" (130 sq ft)	PLB130/ PMT130	Leisure Bay/Martec	C-7413	4-05-0488
7-1/2"	28-15/16"	2-7/8"	2-7/8" (150 sq ft)	PLB150	Leisure Bay	C-7414	4-05-0490
7-1/2"	29-3/8"	3-1/16"	3-1/16"	PWC75	Waterco	C-7478	4-05-0491
7-1/2"	39-1/2"	3-1/16"	3-1/16"	PWC100 = (2) PWC50	Waterco	C-7457	4-05-0492
7-7/8"	9-5/8"	2-5/8"	3-1/2"	PH50 w/RC	Harmsco	—	4-05-0241
7-7/8"	15-3/16"	2-5/8"	3-1/2"	PH75 w/RC	Harmsco	—	4-05-0494
7-7/8"	19-1/2"	2-5/8"	3-1/2"	PH100/105 w/RC	Harmsco	—	4-05-0265
7-7/8"	29-1/16"	2-5/8"	3-1/2"	PH150/155 w/RC	Harmsco	--	4-05-0242
8"	9-1/4"	1.90" 1-1/2"MPT	Reinf Poly Handle	PSN50	Sunrise Spas	—	4-05-0495
8"	9-1/2"	2" Slip	2-1/16"	PCS50-N	Coleman	C-8450	4-05-0304
8"	10"	2" Slip	2-1/16"	PCS50-N	Coleman		4-05-0304
8"	10-3/8"	2.62"L 2" NPT	Reinf Poly Handle	PMA60 w/2" NPT AD	Master Spas	8CH-66	4-05-0498
8"	12-3/8"	2.62"L 2" NPT	Reinf. Poly Handle	PIF60 w/2" NPT AD	Discovery Spas Infinity, Grecian	8CH-60	4-05-0500
8"	14"	2" Slip	2-1/16"	PCS75-N	Coleman	C-8475	4-05-0501
8-1/2"	7-1/4"	2-3/8" w/ Ears	1.90"	PVT50W	Vita Spa	C-8350	4-05-0502
8-1/2"	10-1/2"	3"	3" (45 sq ft)	PWK45N	Watkins, Tiger River	C-8465	4-05-0201
8-1/2"	10-1/2"	3"	3" (65 sq ft)	PWK65	Watkins, Tiger River	C-8465	4-05-0300
8-1/2"	11"	3"	1-1/2" FPT (45 sq ft)	PWK45N w/F	Watkins	—	4-05-0503
8-1/2"	11"	3"	1-1/2" FPT (65 sq ft)	PWK65 w/F	Watkins	—	4-05-0504
8-1/2"	11-1/4"	4-1/8" (Uret Gask)	Plastic Handle	PA40SF	Hayward	C-8340	4-05-0505

PLEATCO FILTER CARTRIDGES *(continued)*

OD	LENGTH	BOTTOM ID	TOP ID	PLEATCO MODEL	OEM	UNICEL	ALLIED ITEM #
8-1/2"	15"	2 5/8"	2" SAE	PSD85-2002	Sundance	C-8380	SD6540-501
8-1/2"			For use w/ SD6540-501	MicroClean	Sundance		SD6540-502
8-1/2"	18"	2" Slip	2-5/8"	PSD125-2000	Sundance	C-8326	SD6540-488
8-1/2"	17-3/8"	4-1/8" (Uret Gask)	4-1/8"	PA80	Hayward	C-8600	4-05-0042
8-1/2"	18-1/4"	2-5/8"	Closed	PSD125	Sundance	C-8320	4-05-0246
8-1/2"	23-1/4"	4-1/8" (Uret Gask)	4-1/8"	PA100	Hayward	C-8610	4-05-0203
8-5/8"	9-7/16"	4-1/8"	4-1/8"	PSR35	Sta-Rite	UHD-SR35	4-05-0506
8-5/8"	13-5/16"	4-1/8"	4-1/8"	PSR50	Sta-Rite	UHD-SR50	4-05-0255
8-5/8"	18-1/8"	4-1/2008	4-1/8"	PSR70	Sta-Rite	UHD-SR70	4-05-0206
8-5/8"	25-5/8"	4-1/8"	4-1/8"	PSR100	Sta-Rite	UHD-SR100	4-05-0508
8-5/8"	31-1/4"	4-1/8"	4-1/8"	PSR137	Sta-Rite	UHD-SR137	4-05-0509
8-5/8"	34-7/16"	4-1/8"	4-1/8"	PSR135	Sta-Rite	UHD-SR135	4-05-0510
8-15/16"	14-1/4"	3" (Uret Gask)	3"	PA85	Hayward		4-05-0511
8-15/16"	17-3/8"	4" (Uret Gask)	4"	PA90	Hayward	C-8409	4-05-0512
8-15/16"	19-5/8"	3" (Uret Gask)	3"	PA125	Hayward		4-05-0513
8-15/16"	23-1/4"	4" (Uret Gask)	4"	PA120	Hayward	C-8412	4-05-0514
8-15/16"	28-1/2"	4" (Uret Gask)	4"	PA175	Hayward	C-8417	4-05-0515
10"	10"	5-7/8"	5-7/8"	PJ50	Jacuzzi	C-9650	4-05-0209
10"	13-5/16"	6"	6"	PWW75	Hayward/Waterway		4-05-0516
10"	14-1/4"	5-7/8"	5-7/8"	PJ75	Jacuzzi	C-9475	4-05-0517
10"	19-5/16"	6"	6"	PWW100	Waterways		4-05-0518
10"	19-7/8"	5-7/8"	5-7/8"	PJ100	Jacuzzi	C-9699	4-05-0285
10"	24"	5-7/8"	5-7/8"	PJ150 (150 sq ft)	Jacuzzi	C-9478	4-05-0519
10"	24"	5-7/8"	5-7/8"	PJ200 (200 sq ft)	Jacuzzi	C-9420	4-05-0520
10"	25-5/16"	6"	6"	PWW150	Waterways		4-05-0521
10"	25-5/16"	6"	6"	PJ160	Jacuzzi		4-05-0303
10-1/16"	8-1/2"	6"	6"	PAP50	American Prod/Purex	C-9405	4-05-0522
10-1/16"	16-1/8"	6"	6"	PAP75	American Prod/Purex	C-9407	4-05-0523
10-1/16"	23-5/8"	6"	6"	PAP100	American Prod/Purex	C-9410	4-05-0524
10-1/16"	31-1/8"	6"	6"	PAP150 (150 sq ft)	American Prod/Purex	C-9415	4-05-0525
10-1/16"	31-1/8"	6"	6"	PAP200 (200 sq ft)	American Prod/Purex	C-9419	4-05-0526
2-1/16"x6"		9-1/4"	3/16"x4-9/16"	PAQV-9	Aqua-Vac	—	4-05-0527



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PLEATCO FILTER CARTRIDGES (*continued*)

ITEM # / MFG

4-05-0115 / PRB14.5
4-05-0116 / PRB8.5
4-05-0597 / PLAS35
4-05-0496 / PLBS50

DESCRIPTION

Filter Cartridge PRB14.5 (*shown right*)
Filter Cartridge PRB8.5
Filter Cartridge PLAS35
Filter Cartridge PLBS50



SUNDANCE FILTERS AND FILTER PARTS

ITEM# / MFG#

SD6540-503 / 6540-503

DESCRIPTION

Microfibre Filter Assy Adapter

DI\$COUNT DAZE

at



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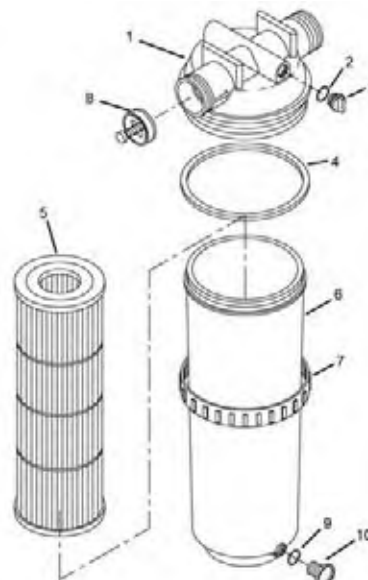
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SONFARREL FILTERS AND FILTER PARTS

PRESSURE FILTER

ITEM# / MFG#	REF	DESCRIPTION
4-05-0065 / 201-012	1	Head Complete (Includes 1,2,3,8)
4-05-0320 / 201-002	2	O-ring, Bleed Plug
4-05-0321 / 201-003	3	1/2" Bleed Plug
4-00-0025 / 568-360	4	O-ring, Filter
4-05-0103 / C-4332	5	Element, Filter-32 sq. ft. (11-7/8" Long)
4-05-0409 / C-4308	5	Element, Filter-28 sq. ft. (14-1/2" Long)
4-05-0266 / C-4301	5	Element, Filter-28 sq. ft. (14-7/8" Long)
4-05-0107 / C-4305	5	Element, Filter-50 sq. ft. (14-7/8" Long)
4-05-0325 / 201-005	6	Canister, 12-1/2" Tall
4-05-0326 / 201-006	6	Canister, 15-1/2" Tall
4-05-0060 / 201-007	7	Locking Ring
4-05-0327 / 201-009	8	Bypass Valve
4-05-0328 / 201-010	9	O-ring, Drain Plug
4-05-0329 / 201-011	10	1/4" Drain Plug with O-ring



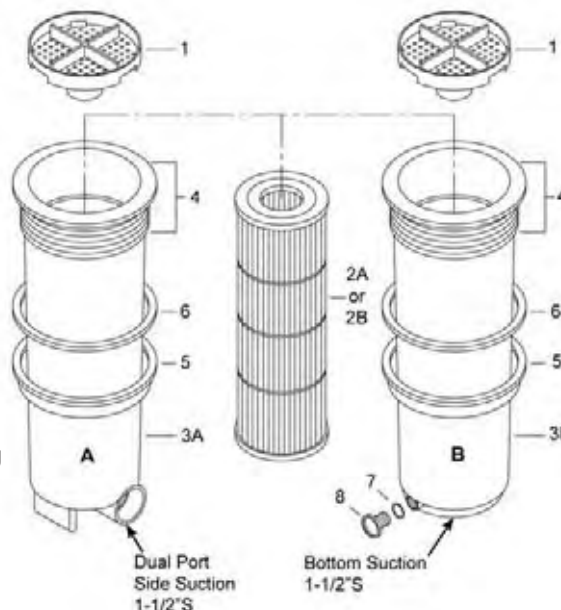
COMPLETE FILTERS

4-05-0591 / IF2500	25 sq. ft. Cartridge, 19 1/2" Tall, 1-1/2" Union* (not included)
4-05-0592 / IF3002	30 sq. ft. Cartridge, 19 1/2" Tall, 1-1/2" Union* (not included)
4-05-0593 / IF4000	40 sq. ft. Cartridge, 19 1/2" Tall, 1-1/2" Union* (not included)
4-05-0594 / IF5000	50 sq. ft. Cartridge, 19 1/2" Tall, 1-1/2" Union* (not included)
4-05-0595 / SC2500	25 sq. ft. Cartridge, 16-1/4" Tall, 1-1/2" Union* (not included)

*1-1/2" Union Item #4-05-0599

SUCTION FILTER

ITEM# / MFG#	REF	DESCRIPTION
4-05-0330 / 202-001	1	Basket with Check Valve
4-05-0103 / C-4332	2A	Filter Element, 40 sq. ft. (11-7/8" Long)
4-05-0266 / C-4301	2B	Filter Element, 25 sq. ft. (14-7/8" Long)
4-05-0331 / 202-025	3A	Canister, Dual Port (16-3/4" Tall)
	3B	Canister, Bottom Suction (Not Sold Separately)
4-05-0332 / 202-002	4	Mounting Flange
4-05-0333 / 202-004	5	Nut, Flange
4-05-0334 / 202-003	6	Gasket, Flange
4-05-0328 / 201-010	7	O-ring, Drain Plug
4-05-0329 / 201-011	8	1/4" Drain Plug with O-ring

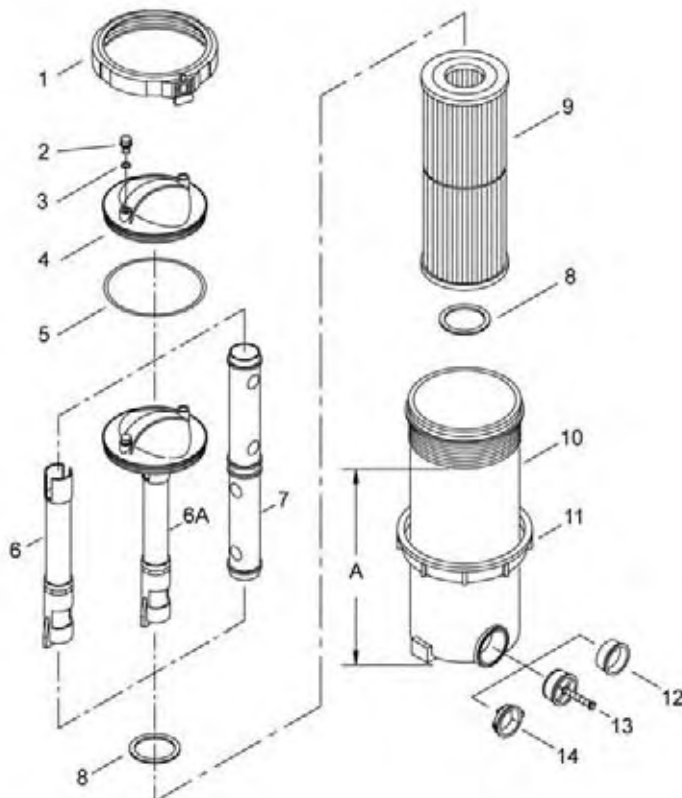


COMPLETE FILTER

4-05-0335 / TL4000	A	Complete Filter, 40 sq. ft.
4-05-0336 / SK2500A	B	Complete Filter, 25 sq. ft. (Bottom Suction)

FILTERS AND FILTER PARTS

TOP LOAD FILTER



ITEM# / MFG#	REF	DESCRIPTION
4-05-0230 / 500-1000	1	Lock Ring Assembly
4-00-0090 / 715-1001	2	Plug, Air Relief
4-05-0236 / 805-0114	3	O-Ring, Air Relief Plug
4-05-0233 / 511-1000	4	Filter Lid
1-05-0358 / 805-0360	5	O-Ring, Filter Lid
4-00-0092 / 519-1070	6	Brominator, 10 Tablet
4-00-0093 / 550-5140	6A	Filter Lid / Brominator Assembly
4-00-0094 / 519-1060	7	Flow Restriction Tube (Sold as single units, 2 required)
4-15-0028 / 711-1010	8	Filter Spacer Ring
4-15-0101 / C-4326	9	Filter Element, 25 Sq. Ft.
4-05-0105 / C-4950	9	Filter Element, 50 Sq. Ft.
4-05-0416 / C-4970	9	Filter Element, 75 Sq. Ft.
4-05-0417 / C-4995	9	Filter Element, 95 Sq. Ft.
4-00-0097 / 550-5000	10	1-1/2" Filter Body with Bypass
4-00-0098 / 550-4990	10	1-1/2" Filter Body with Plug
4-00-0099 / 515-4000	10	1-1/2" Filter Body (no plug or bypass)
4-00-0100 / 515-4010	10	2" Filter Body (no plug or bypass)
4-00-0101 / 550-5010	10	2" Filter Body with Bypass
4-00-0102 / 550-5060	10	2" Filter Body with Plug
4-15-0038 / 718-1000	11	Filter Body Nut
4-15-0033 / 715-1010	12	1-1/2" Plug
4-15-0034 / 715-9900	12	2" Plug
4-00-0103 / 600-1010	13	2" Bypass Valve Assembly
4-15-0056 / 600-1000	14	1-1/2" Bypass Valve Assembly

COMPLETE FILTERS (Without Brominator)

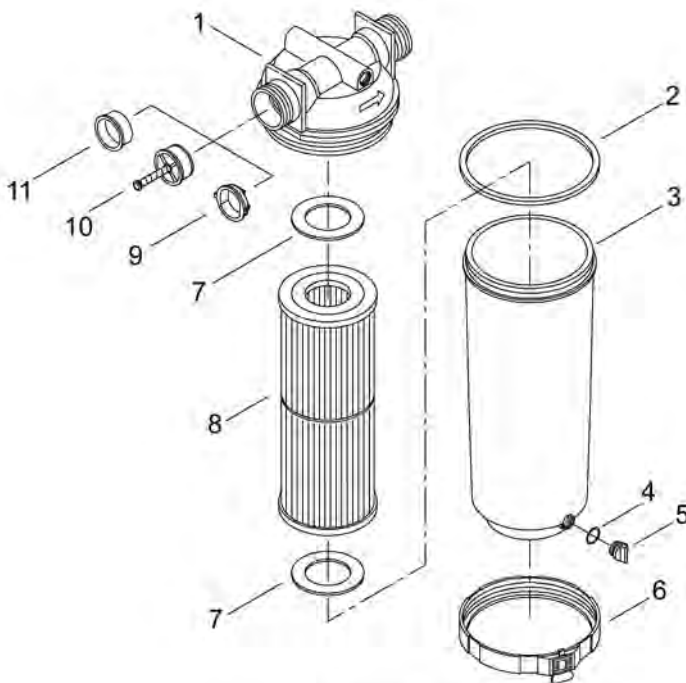
4-00-0010-B / 500-5010	12-1/2" 1-1/2" Top Load with By-pass Valve
4-00-0019 / 500-2530	12-1/2" 1-1/2" Top Load, with By-pass, 25 sq. ft.
4-00-0020 / 502-5030	12-1/2" 2" Top Load, with By-pass, 50 sq. ft. with Flow Restriction Tube





FILTERS AND FILTER PARTS

IN-LINE FILTER



Assembled Height: 17-7/8"

ITEM# / MFG#	REF	DESCRIPTION
4-00-0104 / 511-1010	1	1-1/2" Filter Head
1-05-0358 / 805-0360	2	O-Ring, Filter Top
4-00-0105 / 515-1010	3	Body, In-Line Filter
4-05-0236 / 805-0114	4	O-Ring, Air Relief Plug
4-00-0090 / 715-1001	5	Air Relief Plug
4-05-0230 / 500-1000	6	Lock Ring Assembly
4-15-0028 / 711-1010	7	Spacer Ring, Filter
4-05-0106 / C-4637	8	Filter Cartridge, 25 Sq.Ft.
4-05-0105 / C-4950	8	Filter Cartridge, 50 Sq.Ft.
4-15-0103 / 600-1040	9	By-Pass Valve, 2"
4-15-0035 / 600-1000	10	By-Pass Valve, 1-1/2"
4-15-0033 / 715-1010	11	Plug, 1-1/2"

COMPLETE FILTERS (Size: 1 1/2")

4-00-0107 / 500-2570	25 Sq. Ft. W/ By-Pass (shown right)
4-00-0108 / 500-2590	25 Sq. Ft. W/ By-Pass & Brominator
4-00-0109 / 500-5070	50 Sq. Ft. W/ By-Pass
4-00-0110 / 500-5090	50 Sq. Ft. W/ By-Pass & Brominator



ITEM# / MFG#	DESCRIPTION
4-10-0288 / MP-2710	Grecian Filter Lid



Sundance® Spas PILLOWS

Original Equipment Pillow Chart (2001+)						
Pillow Type:	Sundance			Sweetwater		Del Sol
	Chevron 6455-467	Wrap Around 6455-465	Reverse Wrap Around 6455-466	Chevron (Ball/Socket) 6455-451 2001-2002	Chevron (Bracket Mt.) 6455-452 2003+	Chevron (Ball/Socket) 6455-463 2003+
						
Compatible Hot Tubs:	Insert Purchased Separately (See Table Below)					
Altamar	3					
Aruba				3		
Bahia ('01-'02)				4		
Bahia (2003+)					4	
Cameo	2	1				
Capri	3					
Caprio (2001)	2		1			
Caprio (2002+)	3					
Caprio ST (2001)	2		1			
Caprio ST (2002+)	3					
Cayman (2003+)					3	
Cyprus				3		
Hermosa (2003+)						4
Lagunas (2003+)					3	
Marin (2001)		1				
Marin (2002+)	4					
Maxxus	3	1				
Metro	1	1				
Optima	2	2				
Palermo ('01-'02)				4		
Palermo (2003+)					4	
Solo	1					
Tango						
Compatible Inserts:						
Gray	6455-482	6455-472				
Blue	6455-480	6455-470				
Camel	6455-481	6455-471				

All item #'s above include SD for Allied.

Sundance Spas PILLOWS

Original Equipment Pillow Chart (1998 - 2000)					
Pillow Colors (Gray-All Models)	Chevron	Lounge	Wrap Around	Reverse Wrap Around	Chevron (Ball/Socket)
	Suction Cup Type Pillows (Suction Cups Included)				Front View
					 Side View  4/20/2000 to 12/31/2000*
Hot Tubs	6455-445	6455-446	6455-447	6455-448	6455-451
Altamar	3				
Aruba					3*
Bahia					4*
Calypso, '98-'99	2	1			
Cameo, 1998	1		1		
Cameo, '99+					
Capri	2	1			
Caprio				1	
Cyprus					3*
Marin	1		1	1	
Montego, '98-'99	2		2		
Maxxus	3		1		
Optima	2		2		
Palermo					4*
Rio	2			1	
Solo	1				
Tango					

These pillows allow you to personalize your spa with the selection of colored inserts and retrofit original equipment pillows listed above.

Note: The "Ball & Socket" style pillows used in all 1998 model spas have been discontinued and replaced by the suction cup style pillows listed above. To utilize these pillows in spas with older "Ball & Socket" style pillows, you must install two (2) pillow pads (#6455-003) over existing "Ball & Socket" holes to establish a reliable sealing surface.

*Replaces / Retrofits #6455-460 velcro style "Dual Lock" pillows (not shown).

All item #'s above include SD for Allied.

Sundance® Spas PILLOWS

Original Equipment Pillow Chart (1986 - 1997)						
Pillow Color/Type	Lounge	Short	Corner	Chevron	Wrap Around	Rev. Wrap Around
						
Suction Cup Type Pillows (Suction Cups Included)						
Silver	6455-421	6455-420	6455-205	6455-422	6455-423	6455-424
Silver Stud	Use part numbers above to replace pillows with ball and socket. Additionally: You must order two (2) pads 6455-003 per pillow.					
Black	6455-197*	Unavailable	Unavailable	6455-413*	Unavailable	Unavailable
Brown	6455-195*	6455-191*	Unavailable	Unavailable	6455-401*	Unavailable
Navy Blue	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable	Unavailable
Hot Tub Model	*Limited Stock! Available Only While Supplies Last!					
Allergro, All	1	2				
Cabaret, 1991				4		
Cabaret, 1986 - 1990			4			
Cabaret Jamboree						
Calypso, 1992 - 1997				2		
Calypso, 1991						
Cameo, 1991				2		
Cameo, 1992 - 1997				1	1	
Cameo, 1987 - 1990			2			
Cameo Jr. All	2					
Cameo Jr. Jamboree	1					
Capri, All				2		
Corum, 1995 - 1997				1	1	1
Gemini, All	1	2				
Liberty, All		1	1			
Los Cabos, All	2					
Mardi Gras - All			4			
Marin, 1993 - 1997						1
Marin, 1991 - 1992	1			1		
Marin, 1986 - 1990			2			
Maxxus, All				1	3	
Montego, 1997					2	
Montego, 1992 - 1996	1			2		
Montego, 1991						
Optima, 1997				2	2	
Optima, 1995 - 1996					3	
Rio, 1993 - 1994	1			1	1	
Rio, 1995 - 1997						1
Rio, 1992	1			2		
Rio, 1991			2			
Royale, 1992 - 1997				1	1	
Royale, 1987 - 1991				2		
Serenna, All						
Supra, 1986 - 1990			3			
Supra Jamboree					1	
Supra Lounger, 1991	1					
Supra Lounger, 1986 - 1990			2			
Supra Lounger Jamboree						
Tango, 1997				1		
Tango, up to 1996	1					

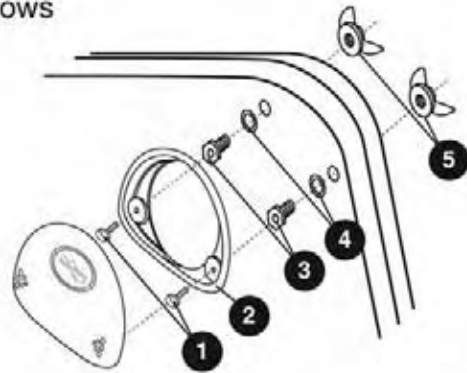
All item #'s above include SD for Allied.

Sundance Spas PILLOWS

Pillow Mounting Hardware / Accessories

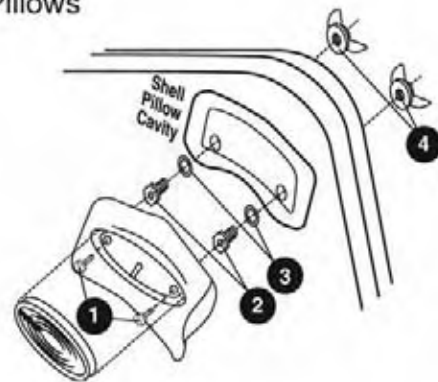
2003+ Sweetwater Pillows

1. 6570-231, Attachment Screw
2. 6455-500, Pillow Mounting Bracket
3. 6570-233, Threaded Bushing
4. 6540-282, Gasket, Pillow Attachment
5. 6570-234, Pillow Attachment Nut



2001+ Sundance / Portofino Pillows

1. 6570-231, Attachment Screw
2. 6570-233, Threaded Bushing
3. 6540-282, Gasket, Pillow Attachment
4. 6570-234, Pillow Attachment Nut

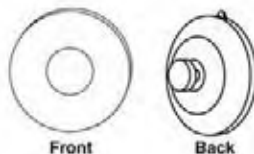


1986 - 2000 Sundance Pillows

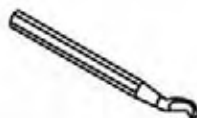
6455-003,
Pillow Pad, 3" X 4"



6000-162,
Pillow Suction Cup,
Double Cup Style
(1998 - Present)



6000-076,
Deburring Tool



2000- 2001 Sweetwater Pillows

6455-005*,
Sweetwater Pillow Socket Cup, Installed
in Shell for Ball & Socket Pillows (All
2000-2002 Sweetwater Models)



6000-105,
Sweetwater Pillow Socket Cup
Washer, Installed Behind Pillow
Socket Cup #6455-005 Above (All
2000-2002 Sweetwater Models)



**Note: A 9/16" or 44mm drill bit is required to
install #6455-005 Sweetwater Pillow Socket Cups
(Purchased Separately).*



TEST & MEASUREMENT INSTRUMENTS

ITEM# / MFG#

DESCRIPTION

5-60-9024 / UTL33T

Digital Multimeter

- DC Current
2mA/20mA/200mA/10A
- DC Voltage
200mV/2V/20V/200V/600V
- AC Voltage 200V/600V
- Temperature
- Diode & Continuity Resistance
- Transistor Test



5-60-9029 / UTL260

Digital Clamp-On

- AC current 2A/20A/200A
- AC/DC voltage 600V
- Resistance 2kΩ
- Audible continuity
- LCD display count 1999
- Auto functions indications
- Sample Rate: 2 times/sec
- Back light display



5-60-9023 / UTLIT1

Infrared Thermometer

- 4 to 600°F
- Precision laser targeting
- Easy one handed operation
- 5 to 1 spot ratio
- 4 second auto-hold
- One year limited warranty



5-60-9036 / PDT550

Digital Pocket Thermometer

- Waterproof
- 58° to 571° (-50° to 300°)
- Built-in magnetic mount
- MIN/MAX record
- Data hold
- Dual purpose probe cover serves as probe extension



5-60-9026 / UTL7002

Voltage Detector

- Detect's live voltages
- Non-contact AC detection
- 50 to 500 ACV
- DC detection by contact
- 30 to 220 DCV
- Batteries included (AB13)



5-60-9021 / ATT29A

K-Type Temperature Probe

- 4' standard FDA approved.
- TA2K, DL379, UTL33T



ITEM# / MFG#

DESCRIPTION

5-60-9015 / DL49

Digital Clamp-On Meters

- 400 Amps AC and DC
- 600 Volts AC and DC
- Resistance to 40 Megohms
- Continuity
- Auto ranging
- AC Amps peak hold
- Data hold
- 1 mv DC resolution allows use of adapters
- 1 1/4" Jaw capacity
- UL and CE listed CAT III 600V



5-60-9037 / DM383B

Multimeters

- 750V AC and 1000V DC
- 10 Amps AC and DC
- Resistance to 40 Megohms
- Diode check function
- Continuity
- 3-3/4" digit, 4000 count display
- Max Capture mode
- Data Hold
- Easyview Display UL and CE listed CAT II 1000V, CAT III 600V



5-60-9016 / INF155

Scout 1

- Wide temperature range: -58° to 750°F
- MAX value capture
- Auto off
- Backlight display
- 10:1 Distance-to-Spot Ratio



5-60-9038 / PET1

Pocket Electrical Tester

- Work light
- Non-contact AC Voltage test: from 12-600V AC (with adjustable sensitivity)
- Detects high and low AC Voltage
- Continuity check: 0-80 MΩ



5-60-9020 / ATL55

Test Leads

- UL approved CAT III
- 1000 Volts, AC/DC
- Use on meters with standard 4.0 mm input jacks
- 48 inches long
- Alligator Clips Included





TEST & MEASUREMENT INSTRUMENTS

ITEM# / MFG#

DESCRIPTION

5-60-9025 / UTLKIT

Vo-Tech Starter Kit

- 5-60-9029/UTL260 Clamp Meter
- 5-60-9024/UTL33T Digital Multimeter with Temperature
- 5-60-9036/PDT550 Digital Pocket Thermometer
- 5-60-9023/UTLIT1 Digital Infrared Thermometer
- 5-60-9026/UTL7002 Voltage Detector
- AC73 Soft Carrying Case



5-60-9200

Vo-Tech Starter Kit w/ Phoenix II

- 5-60-9019/DL379KIT Phoenix II Clamp Meter w/ Hook Clamp
- 5-60-9036/PDT550 Digital Pocket Thermometer
- 5-60-9023/UTLIT1 Digital Infrared Thermometer
- 5-60-9026/UTL7002 Voltage Detector
- 5-60-9132 Fuse Box Kit
- 951590-601 #15 White Button
- AC73 Soft Carrying Case



5-60-9250

Vo-Tech Starter Kit w/ Croc, Clamp On Meter

- 5-60-9029/UTL260 Clamp Meter
- 5-60-9107 Croc Needle Nose Wire Stripper
- 5-60-9036/PDT550 Digital Pocket Thermometer
- 5-60-9023/UTLIT1 Digital Infrared Thermometer
- 5-60-9126/UTL7002 Voltage Detector
- 5-60-9132 Fuse Box Kit
- 951590-601 #15 White Button
- AC73 Soft Carrying Case



5-60-9275

Vo-Tech Starter Kit w/ Phoenix II, Croc

- 5-60-9019/DL379KIT Phoenix II Clamp Meter w/ Hook Clamp
- 5-60-9107 Croc Needle Nose Wire Stripper
- 5-60-9036/PDT550 Digital Pocket Thermometer
- 5-60-9023/UTLIT1 Digital Infrared Thermometer
- 5-60-9026/UTL7002 Voltage Detector
- 5-60-9132 Fuse Box Kit
- 951590-601 #15 White Button
- AC73 Soft Carrying Case





TEST & MEASUREMENT INSTRUMENTS (continued)

ITEM# / MFG#

5-60-9019 / DL379KIT



DESCRIPTION

Phoenix II Clamp On Meter w/ Hook

- Detachable Clamp Head
- CH3 hook extended clamp head
- Measures 100A AC and easily reaches into tight spaces
- Worklight
- 40MΩ Resistance/Continuity
- 4000μF Capacitance
- -40 ~ 752°F Temperature (K type)
- Frequency/Duty Cycle
- μA for Flame Safeguard
- Non-Contact Voltage
- Diode & MIN/MAX
- Magnetic Mount
- Dual Backlight Display
- Test Lead Storage
- Test Lead Holder on Clamp Head
- Data hold
- Auto Off
- Three year limited warranty

5-60-9018 / AC319



Soft Carrying Case for Manometers

5 1/2"W x 7 1/2" T x 2 1/2" D
Inside pocket

ITEM# / MFG#

5-60-9141 / EM150*



DESCRIPTION

EM150 - Single Input Electronic Manometer

Measures positive and negative pressure to 20" water gauge
Features:

- Auto power off
- Rubber-boot with built-in magnet
- .05" resolution below 9.95"

*Case not included

5-60-9142 / EM200*



EM200 - Dual Input Electronic Manometer

Measures positive and negative pressure to 60" water gauge
Features:

- Auto power off
- Rubber-boot with built-in magnet
- .01" resolution below 9.99"

*Case not included

WIRE MANAGEMENT & CONNECTORS

Dryconn Waterproof Connectors

ITEM# / MFG#

DESCRIPTION

Interior / Exterior

5-60-0450K / 62110

Aqua / Orange (Pkg 6)
Wire range #22 - #12

5-60-0451K / 62210

Aqua / Red (Pkg 5)
Wire range #22 - #8

5-60-0452K / 62310

Aqua / Blue (Pkg 3)
Wire range #14 - #6

Direct Bury

5-60-0453K / 10600

King 6 Blue (Pkg 2)
Wire range #22-#18

KING
INNOVATION™



Interior



Exterior



Direct Bury

ELECTRO SPECIALTIES

WIRE MANAGEMENT & CONNECTORS

Crimp-on Wire Terminals & Accessories (Sold in Packages of 25)

Item #5-60-0400

Wire Size: 22-18
Stud: 8
Color: Red



Item #5-60-0401

Wire Size: 22-18
Stud: 8
Color: Red



Item #5-60-0402

Wire Size: 22-18
Stud: N/A
Color: Red



Item #5-60-0403

Wire Size: 22-18
Size: .187
Color: Red



Item #5-60-0404

Wire Size: 22-18
Size: .250
Color: Red



Item #5-60-0406

Wire Size: 12-10
Stud: 10
Color: Yellow



Item #5-60-0407

Wire Size: 12-10
Stud: 8
Color: Yellow



Item #5-60-0408

Wire Size: 12-10
Size: .250
Color: Yellow



Item #5-60-0409

Wire Size: 12-10
Stud: 8
Color: Yellow



Item #5-60-0410

Wire Size: 12-10
Stud: N/A
Color: Yellow



Item #5-60-0411

Wire Size: 16-14
Stud: 8
Color: Yellow



Item #5-60-0412

Wire Size: 16-14
Stud: 10
Color: Blue



Item #5-60-0413

Wire Size: 16-14
Stud: 8
Color: Blue



Item #5-60-0415

Wire Size: 16-14
Stud: N/A
Color: Blue



Item #5-60-0416

Wire Size: 16-14
Size: .250
Color: Blue



Item #5-60-0417

Wire Size: 16-14
Size: .187
Color: Blue



Item #5-60-0418

Wire Size: 16-14
Size: .250
Color: Blue



Item #5-60-0419

Wire Size: 16-14
Stud: N/A
Color: Blue



Item #5-60-0420

Wire Size: 16-14
Stud: N/A
Color: Blue



Item #5-60-0421

Wire Size: 16-14
Stud: N/A
Color: Blue



Item #5-60-0422

Wire Size: N/A
Size: .250



Item #5-60-0423

Wire Size: N/A
Size: .250



Item #5-60-9034

General Purpose
Crimper



Right Angle Female Disconnect Nylon Fully Insulated



Item #5-60-0425

Mfg #F190250B
Term RT/A FM
Disconnect 16-14 AWG
Blue (25/Bag)

Item #5-60-0427

Mfg #F190250Y
Term RT/A FM
Disconnect 22-10 AWG
Yellow (25/Bag)

Item #5-60-0426

Mfg #F190250R
Term RT/A FM
Disconnect 22-18 AWG
Red (25/Bag)



ELECTRICAL TOOLS & HARDWARE

Electrician Kits

ITEM# / MFG#

DESCRIPTION

5-60-9099 / T36070S



Tool Set, 9 Piece, Red/Yellow
Set contains 1 each of the following:

- #39075 Side Cutter
- #39076 Snipe Nose Pliers
- #39074 Wire Stripper Pliers
- #49044 Slotted Driver 3" & 4"
- #49042 Phillips Driver PH1 & PH2
- #4952 Mains Tester 220-250V

5-60-9152 / 1704MCM



Tool Set, 3 Piece, Red/Yellow
Set contains 1 each of the following:

- #39075 Side Cutter
- #39072 Combo Plier
- #39076 Long Nose Plier
- All Tools are RedLine VDE

5-60-9153 / 39078

Tool Set, 7 Piece, Red/Yellow



Set contains 1 each of the following:
6" Side Cutter
7" Combination Plier
8" Long Nose Plier
4 SensoPlus VDE screwdrivers

Utility (Waterpump) Pliers

5-60-9154 / 3653-10 (10" OAL)

5-60-9157 / 3653-12 (12" OAL)



- XL Maxigrip Waterpump Plier
- Over 35% more gripping capacity than standard utility pliers
- Super slim design with 11 position adjustment
- Built in stop prevents finger nipping
- XTRA LARGE GRIP

Insulated Pliers & Cutters



RedLine VDE Cutters and Pliers

This line meets the USA national standard (ASTM-F 1505-94) for safety in electronic operations. All tools are rated for 1,000 volt use and are tested at 10,000 volts. Made with our SensoPlus dual compound handles.

ITEM# / MFG#

DESCRIPTION

5-60-9090 / 39075-7

VDE 7" Side Cutter



5-60-9092 / 39076-8

VDE 8" Long Nose Plier



5-60-9094 / 39074

VDE Wire Stripping Plier



5-60-9093 / 39072-8

VDE 8" Combo Plier



Wire Stripper

ITEM# / MFG#

DESCRIPTION

5-60-9096 / 3942

Multi-Function Wire Stripper



- 3 Functions in one great tool
- Optimal for stripping, crimping, and even cutting
- Heavy gauge steel handles with comfortable grips.

Quick Change Hacksaw

ITEM# / MFG#

DESCRIPTION

5-60-9155 / TO814



- Quality Hacksaw with ergonomic comfort grips
- 12" OAL
- Quick release slide catch
- 45o & 90o blade positions
- Spare blade storage in frame

Harsh Environment Padlock

ITEM# / MFG#

DESCRIPTION

5-60-9156 / K13545



- Plastic Coated Hardened Steel Shackle
- Plastic coated nickel plated steel laminated body
- Double bolted locking mechanism
- 5 pin cylinder with anti-pick mushroom pins
- Keyhole cover
- Paracentric keyway

C.K. ELECTRICAL TOOLS & HARDWARE (continued)

Insulated Screwdrivers

ITEM# / MFG#

5-60-9080 / 49082

DESCRIPTION

SensoPlus screwdrivers offer a dual-compound ergonomic design

•Offers protection up to a 1,000 Volts and are tested at 10,000 Volts

•6 pc. set Includes PH 1, PH2, & Slotted 3/32", 5/32" & 7/32" screwdrivers & Mains Tester

#5-60-9080 / 49082 Set

#5-60-9081 / 49042-1 PH1

#5-60-9082 / 49042-2 PH2

#5-60-9083 / 49044-025 3/32"

#5-60-9084 / 49044-04 5/32"

#5-60-9085 / 49044-055 7/32"



PVC Pipe Cutters



- Metal Construction
- Makes Clean, Burr-Free Cuts Through PVC
- Ratchet-Action Design For Maximum Cutting Power with Very Little Effort

ITEM# / MFG#

- | ITEM# / MFG# | DESCRIPTION |
|-------------------|-----------------------------|
| 5-60-9101 / 50110 | Medium-Duty, 1" Diameter |
| 5-60-9102 / 50112 | Heavy-Duty, 1 1/4" Diameter |
| 5-60-9103 / 50115 | Heavy-Duty, 2" Diameter |
| 5-60-9104 / 51010 | Replacement 50110 Blades |
| 5-60-9105 / 51012 | Replacement 50112 Blades |
| 5-60-9106 / 51014 | Replacement 50115 Blades |

Genuine

ROBERTSON® Square drive
SCREW DRIVERS

Great Quality - Great Fit



Robertson®, AKA Square Drive, has proven itself in Canada for 90 years. It is now popping up in the USA. The advantages of Square Drive are well documented and genuine. Why not use genuine Robertson® screw drivers for the best grip, best fit, most torque.

ITEM# / MFG#

5-60-9136 / SD110G

5-60-9137 / SD210R

5-60-9138 / SD310BK

DESCRIPTION

Screwdriver 10" Green #1 Square

Screwdriver 10" Red #2 Square

Screwdriver 10" Black #3 Square

ITEM# / MFG#

5-60-9135 / 97008

DESCRIPTION

Qwik Lok - Locking Plug





ELECTRICAL TOOLS & HARDWARE (continued)

ITEM# / MFG#

5-60-9046 / 11455



DESCRIPTION

Wire Dispenser

- versatile, waterproof, rustproof, reliable, rugged and fast



ITEM# / MFG#

5-60-9107 / 47000



DESCRIPTION

Croc's

- Needle nose tips
- Romex sheath stripper at the "nose" where it is easier to use inside boxes
- Strips conductor sizes from #10 down to #22 AWG (for telephone wire)
- Large cutting blades for easy general purpose cuts
- Barrel sleeve crimper near the pivot
- Ergonomic "hourglass" shaped handles for comfort & speed

ITEM# / MFG#

5-60-9115 / 72120



DESCRIPTION

ProGrabit Kit

- Damaged screw remover
- Works on jagged, uneven and rough breaks
- Self centering tip, no walking
- Compatible with quick connect chuck systems
- Easy to use with 3/8" variable speed reversible drill
- Extracts screws up to 4 inches

ITEM# / MFG#

5-60-9053 / 69455



DESCRIPTION

Snatch Strap Wire Puller

- Fast attachment for conduit pulls
- No stripping required
- No taping required
- 3 straps per kit

ITEM# / MFG#

5-60-9048 / WM396



DESCRIPTION

Super Wrist Magnet

- Holds any steel parts
- Comfortable to wear all day
- Made of rugged 2 mil neoprene
- Waterproof
- Adjustable band fits virtually any wrist size

ITEM# / MFG#

5-60-9050 / 51000



DESCRIPTION

Exploding Garbage Can

- Collapsible Trash Container
- Featuring an internal support spring that "Springs Into Action"
- Heavy Duty, Tear Resistant Polytuf Fabric

Size: 19" x 24" (open)
1 1/2" x 24" (collapsed)

Pipe Spring Benders

ITEM# / MFG#

5-60-9116 / 58050

5-60-9117 / 58075

5-60-9118 / 58100

DESCRIPTION

1/2"

3/4"

1"

- You can cold bend
- No heat guns
- No heat blankets
- Fewer PVC fittings



Tool Holding Systems

ITEM# / MFG#

5-60-9119 / 43015

5-60-9120 / 43095

DESCRIPTION

Butt Pouch - mini

Butt Pouch - grande

- Quick to put on, Comfortable
- Fits in your pocket
- Large snap loop for attaching to your belt if preferred
- Made of ballistic nylon





ELECTRICAL TOOLS & HARDWARE (continued)

ITEM# / MFG#

5-60-9042 / 66455



DESCRIPTION

Racksy Pad - Knee Pads

- Sturdy and comfortable
- Velcro/elastic straps make these knee pads easy to put on and take off.

ITEM# / MFG#

5-60-9058 / 55455



DESCRIPTION

EZ Roll Wire Dispenser

- Collapsible wheeled wire dispenser
- Rigid steel construction
- Light-weight design
- Durable 'Caution Yellow' Finish
- Compact (fits in any job box)
- 150lb. Load Tested
- Holds reels up to 18"

Racky Bits

ITEM# / MFG#

DESCRIPTION

Genuine Robertson® Bits

- 5-60-9121 / 70140G #1 Green Square - 4"
 5-60-9061 / 70160G #1 Green Square - 6"
 5-60-9122 / 70240R #2 Red Square - 4"
 5-60-9062 / 70260R #2 Red Square - 6"
 5-60-9123 / 70340BK #3 Black Square - 4"
 5-60-9063 / 70360BK #3 Black Square - 6"

Phillips Bits

- 5-60-9124 / 70141LB #1 Light Blue Phillips - 4"
 5-60-9065 / 70261BL #2 Blue Phillips - 6"

ITEM# / MFG#

DESCRIPTION

Magnetic Hex Bits

- 5-60-9066 / 70531R 1/4" Red Hex - 2.5"
 5-60-9125 / 70561R 1/4" Red Hex - 6"
 5-60-9067 / 70631Y 5/16" Yellow Hex - 2.5"
 5-60-9126 / 70661Y 5/16" Yellow Hex - 6"
 5-60-9068 / 70731BL 3/8" Blue Hex - 2.5"
 5-60-9127 / 70761BL 3/8" Blue Hex - 6"
 5-60-9069 / 70831BR 7/16" Brown Hex - 2.5"
 5-60-9128 / 70861BR 7/16" Brown Hex - 6"
 5-60-9070 / 70931BK 1/2" Black Hex - 2.5"
 5-60-9129 / 70961BK 1/2" Black Hex - 6"

(Additional Sizes and Colors Available Upon Request.)



ELECTRICAL TOOLS & HARDWARE *(continued)*

ITEM# / MFG#

5-60-9072 / SAB688



DESCRIPTION

8-in-1 Multi-Wrench

- Replaces 8 SAE wrench sizes: 5/16", 3/8", 9/16", 5/8", 7/16", 1/2", 11/16" and 3/4" Chrome vanadium hardened steel with a solid shaft stands up to heavy use.
- Chrome-plated and rust-resistant.

ITEM# / MFG#

5-60-9074 / RC6000



DESCRIPTION

Kinetic Flashlight

- Never needs batteries: shake horizontally to recharge the capacitor.
- Over-sized, dual-coil capacitor design delivers up to 30 minutes of continuous bright light.
- Three LED lights offer super-bright light with no light bulbs to replace.
- Button toggles between three light modes: triple LED mode for maximum illumination, single LED mode for energy conservation, or "OFF".
- Baton flashlight quality: long-life anodized aluminum alloy casing is precision machined with high-grade rubber seals.

5-60-9073 / SAB601



4-in-1 Multi-Socket

- Replaces the four most common nut drivers with one tough tool.
- Telescoping action provides two socket sizes at each end.
- High-torque grip has textured, non-slip surface. •Tough, high-quality industrial steel construction.
- SAE socket sizes: 1/4", 3/8", 5/16", 7/16"



SAFETY PRODUCTS

ITEM# / MFG#

8-05-0020 / ZPHT



DESCRIPTION

Zorbie Hot Tub Water Bobble

- Water Bobble's scientific formula helps maintain a balanced PH level in water
- When placed in a hot tub the active ingredient (zorbolite) creates a unique ion exchange
- Water Bobbles extend filter life in both pools and hot tubs
- Absorbs all oils
- Zorbolite reacts with the gasses emitted by the chlorine/bromine stabilizers
- Reduces odors
- Ion exchange inhibits the growth of bacterial breeding foams in the tub



Factory Direct for Genuine Brand Products
 Len Gordon • Spa Builders Systems • Gecko • Aeware
 Aqua-Flo • Brett Aqualine . . . and Much More!

Prices subject to change without notice.

PRICE LIST

ITEM #	PAGE	LIST PRICE	ITEM #	PAGE	LIST PRICE	ITEM #	PAGE	LIST PRICE
030030A	53	\$ 1.09	1-00-0159	96	\$ 343.10	1-05-0119	106	\$ 92.91
080240	77	\$ 210.41	1-00-0164	96	\$ 345.03	1-05-0131	111	\$ 101.11
09-0009	137	\$ 0.33	1-00-0166	103	\$ 671.13	1-05-0134	114	\$ 4.97
1-00-0013	105	\$ 311.10	1-00-0168	96	\$ 315.74	1-05-0135	114	\$ 7.62
1-00-0014	106	\$ 379.28	1-00-0169	96	\$ 315.74	1-05-0136	114	\$ 7.62
1-00-0016	105	\$ 413.69	1-00-0170	96	\$ 315.74	1-05-0139	114	\$ 10.43
1-00-0024	105	\$ 376.05	1-00-0171	96	\$ 345.03	1-05-0141	139	\$ 0.59
1-00-0029	106	\$ 508.85	1-00-0172	96	\$ 345.03	1-05-0153	113	\$ 13.26
1-00-0033	105	\$ 509.33	1-00-0173	96	\$ 345.03	1-05-0185	114	\$ 4.87
1-00-0043	106	\$ 433.99	1-00-0174	96	\$ 345.03	1-05-0190	106	\$ 95.20
1-00-0045	106	\$ 386.59	1-00-0175	96	\$ 345.03	1-05-0206	114	\$ 5.03
1-00-0055	105	\$ 412.40	1-00-0176	96	\$ 345.03	1-05-0209	113	\$ 9.82
1-00-0070	107	\$ 382.12	1-00-0177	96	\$ 358.05	1-05-0215	107	\$ 85.86
1-00-0071	107	\$ 337.42	1-00-0178	96	\$ 358.05	1-05-0219	99	\$ 4.32
1-00-0073	107	\$ 348.83	1-00-0179	98	\$ 257.02	1-05-0220	99	\$ 10.64
1-00-0079	105	\$ 420.25	1-00-0180	98	\$ 246.26	1-05-0221	99	\$ 4.32
1-00-0082	111	\$ 480.39	1-00-0181	98	\$ 257.02	1-05-0223	99	\$ 32.65
1-00-0083	109	\$ 415.54	1-00-0182	98	\$ 275.73	1-05-0228	100	\$ 9.40
1-00-0084	109	\$ 453.75	1-00-0183	98	\$ 275.73	1-05-0234	113	\$ 11.22
1-00-0086	109	\$ 453.75	1-00-0184	96	\$ 220.30	1-05-0238	99	\$ 57.27
1-00-0087	111	\$ 415.53	1-00-0185	96	\$ 258.02	1-05-0242	104	\$ 31.22
1-00-0088	98	\$ 257.02	1-00-0186	111	\$ 453.75	1-05-0243	104	\$ 25.62
1-00-0089	109	\$ 480.80	1-00-0187	111	\$ 480.80	1-05-0244	104	\$ 27.64
1-00-0090	109	\$ 497.53	1-00-0188	111	\$ 485.25	1-05-0245	104	\$ 27.64
1-00-0093	104	\$ 612.95	1-00-0189	111	\$ 560.87	1-05-0246	104	\$ 27.64
1-00-0097	96	\$ 211.34	1-00-0192	108	\$ 396.98	1-05-0247	104	\$ 1.20
1-00-0098	96	\$ 345.03	1-00-0193	108	\$ 415.54	1-05-0248	104	\$ 1.39
1-00-0107	110	\$ 516.41	1-00-0194	108	\$ 453.75	1-05-0249	104	\$ 31.55
1-00-0131	104	\$ 494.30	1-00-0195	108	\$ 453.75	1-05-0250	104	\$ 61.40
1-00-0132	104	\$ 652.18	1-00-0196	108	\$ 460.72	1-05-0251	104	\$ 0.47
1-00-0133	104	\$ 474.35	1-00-0197	96	\$ 113.93	1-05-0252	104	\$ 0.47
1-00-0136	96	\$ 315.74	1-00-0198	96	\$ 406.88	1-05-0253	104	\$ 0.47
1-00-0143	105	\$ 514.03	1-00-0199	96	\$ 390.60	1-05-0254	108	\$ 0.45
1-00-0144	104	\$ 554.09	1-00-8000	108	\$ 69.81	1-05-0255	105	\$ 26.22
1-00-0145	103	\$ 408.94	1-05-0095	106	\$ 1.18	1-05-0256	106	\$ 25.33
1-00-0146	103	\$ 612.55	1-05-0097	107	\$ 37.23	1-05-0257	105	\$ 15.80
1-00-0147	99	\$ 799.06	1-05-0107	105	\$ 91.90	1-05-0258	105	\$ 15.33
1-00-0150	104	\$ 648.31	1-05-0109	100	\$ 9.40	1-05-0259	105	\$ 16.10
1-00-0152	99	\$ 394.81	1-05-0110	100	\$ 11.47	1-05-0260	105	\$ 16.10
1-00-0154	96	\$ 266.10	1-05-0112	105	\$ 95.20	1-05-0261	105	\$ 16.10
1-00-0155	96	\$ 300.47	1-05-0113	107	\$ 94.79	1-05-0262	105	\$ 0.93
1-00-0156A	103	\$ 278.17	1-05-0114	106	\$ 91.90	1-05-0263	105	\$ 0.91
1-00-0157	106	\$ 309.94	1-05-0118	105	\$ 92.91	1-05-0264	105	\$ 18.14

PRICE LIST



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1-05-0265	106	\$ 18.57	1-05-0310	110	\$ 29.64	1-05-0355	107	\$ 46.17
1-05-0266	105	\$ 0.47	1-05-0311	110	\$ 32.13	1-05-0356	103	\$ 115.78
1-05-0267	105	\$ 96.51	1-05-0313	111	\$ 28.21	1-05-0357	111	\$ 111.84
1-05-0268	105	\$ 0.47	1-05-0314	99	\$ 46.55	1-05-0358	274	\$ 5.95
1-05-0269	106	\$ 47.11	1-05-0316	99	\$ 5.37	1-05-0359	109	\$ 25.64
1-05-0270	105	\$ 41.70	1-05-0317	99	\$ 70.00	1-05-0366	98	\$ 126.61
1-05-0271	108	\$ 37.77	1-05-0318	111	\$ 32.60	1-05-0369	103	\$ 170.71
1-05-0272	108	\$ 2.93	1-05-0319	100	\$ 8.23	1-05-0370	100	\$ 72.11
1-05-0273	108	\$ 15.23	1-05-0320	99	\$ 192.65	1-05-0371	110	\$ 114.44
1-05-0274	108	\$ 2.19	1-05-0321	100	\$ 11.47	1-05-0372	110	\$ 111.84
1-05-0275	108	\$ 0.47	1-05-0322	106	\$ 92.91	1-05-0373	110	\$ 111.84
1-05-0276	108	\$ 42.67	1-05-0323	106	\$ 92.91	1-05-0374	110	\$ 111.84
1-05-0278	108	\$ 0.51	1-05-0324	107	\$ 94.79	1-05-0375	110	\$ 111.84
1-05-0279	108	\$ 24.60	1-05-0325	105	\$ 92.91	1-05-0377	99	\$ 1.08
1-05-0280	108	\$ 25.46	1-05-0326	105	\$ 92.91	1-05-0378	99	\$ 0.74
1-05-0281	108	\$ 4.31	1-05-0327	104	\$ 154.46	1-05-0380	55	\$ 179.63
1-05-0282	108	\$ 25.64	1-05-0328	104	\$ 154.46	1-05-0381	103	\$ 164.14
1-05-0283	108	\$ 24.39	1-05-0329	104	\$ 154.46	1-05-0382	103	\$ 164.14
1-05-0284	108	\$ 25.64	1-05-0330	104	\$ 154.46	1-05-0384	104	\$ 25.77
1-05-0285	108	\$ 25.64	1-05-0331	111	\$ 95.45	1-05-0385	103	\$ 189.70
1-05-0286	108	\$ 24.39	1-05-0332	111	\$ 95.50	1-05-0390	103	\$ 121.19
1-05-0287	108	\$ 36.44	1-05-0333	111	\$ 95.50	1-05-0391	103	\$ 121.19
1-05-0288	108	\$ 1.12	1-05-0334	108	\$ 95.50	1-05-0392	103	\$ 121.19
1-05-0289	108	\$ 25.46	1-05-0335	108	\$ 95.50	1-10-0007A	115	\$ 167.51
1-05-0290	109	\$ 4.39	1-05-0336	108	\$ 107.54	1-10-0007A-SP	115	\$ 116.98
1-05-0291	109	\$ 6.97	1-05-0337	108	\$ 111.84	1-10-0018A	115	\$ 160.55
1-05-0292	109	\$ 24.39	1-05-0338	109	\$ 101.12	1-10-0018A-HQ	115	\$ 113.32
1-05-0293	109	\$ 24.39	1-05-0339	109	\$ 107.54	1-10-0019A	115	\$ 159.45
1-05-0294	109	\$ 25.64	1-05-0340	109	\$ 111.84	1-10-0019A-HQ	115	\$ 112.13
1-05-0295	109	\$ 25.64	1-05-0341	109	\$ 111.84	1-10-0022A	115	\$ 197.06
1-05-0296	109	\$ 25.64	1-05-0342	109	\$ 111.84	1-10-0023A	115	\$ 129.39
1-05-0297	109	\$ 40.74	1-05-0343	111	\$ 93.08	1-10-0023A-SP	115	\$ 116.98
1-05-0299	110	\$ 0.47	1-05-0344	111	\$ 93.08	1-10-0024A	115	\$ 142.45
1-05-0300	110	\$ 0.57	1-05-0345	111	\$ 111.84	1-10-0025A	115	\$ 132.40
1-05-0301	110	\$ 44.57	1-05-0346	111	\$ 111.84	1-10-0025A-SP	115	\$ 118.00
1-05-0302	110	\$ 40.78	1-05-0347	111	\$ 111.84	1-10-0026A	115	\$ 133.50
1-05-0303	110	\$ 5.85	1-05-0348	111	\$ 111.84	1-10-0026A-HQ	115	\$ 106.82
1-05-0304	110	\$ 5.85	1-05-0349	111	\$ 111.84	1-10-0034A	115	\$ 154.77
1-05-0305	110	\$ 4.31	1-05-0350	110	\$ 88.61	1-10-0035A	115	\$ 151.28
1-05-0306	110	\$ 29.64	1-05-0351	110	\$ 111.84	1-10-0039	115	\$ 328.83
1-05-0307	110	\$ 29.64	1-05-0352	110	\$ 111.84	1-10-0101	116	\$ 173.06
1-05-0308	110	\$ 29.64	1-05-0353	110	\$ 111.84	1-10-0105	116	\$ 173.06
1-05-0309	110	\$ 29.64	1-05-0354	110	\$ 111.84	1-15-0001	116	\$ 90.11



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ITEM #	PAGE	LIST PRICE	ITEM #	PAGE	LIST PRICE	ITEM #	PAGE	LIST PRICE
1-15-0002	116	\$ 104.92	2-00-0025A	123	\$ 262.85	2-00-0139	129	\$ 233.57
1-15-0003	116	\$ 116.19	2-00-0030	128	\$ 336.87	2-00-0140	130	\$ 416.13
1-15-0004	116	\$ 115.03	2-00-0035	129	\$ 197.99	2-00-0141	39	\$ 227.63
1-15-0005	116	\$ 157.62	2-00-0036	129	\$ 231.98	2-00-5000	118	\$ 136.98
1-15-0101	116	\$ 22.04	2-00-0037	129	\$ 262.21	2-00-5001	118	\$ 169.28
1-20-0001	112	\$ 356.99	2-00-0038	129	\$ 238.96	2-00-5002	118	\$ 139.17
1-20-0002	112	\$ 385.58	2-00-0039	129	\$ 177.64	2-00-5003	118	\$ 197.19
1-20-0003	112	\$ 501.89	2-00-0040	119	\$ 122.20	2-00-5005	118	\$ 156.56
1-20-0004	112	\$ 350.79	2-00-0042	120	\$ 148.08	2-00-5007	122	\$ 205.81
1-20-0005	112	\$ 547.04	2-00-0043	129	\$ 192.23	2-00-5008	122	\$ 217.32
1-20-0006	112	\$ 669.11	2-00-0045	129	\$ 148.89	2-00-5009	122	\$ 209.77
1-20-0007	112	\$ 304.37	2-00-0046	130	\$ 200.93	2-00-7001	118	\$ 165.43
1-20-0008	112	\$ 318.50	2-00-0047	130	\$ 184.22	2-00-7003	118	\$ 165.43
1-20-0009	112	\$ 403.06	2-00-0048	119	\$ 122.20	2-00-7007	118	\$ 131.64
1-20-0010	112	\$ 403.24	2-00-0049	130	\$ 204.25	2-00-7016	118	\$ 170.82
1-20-0011	112	\$ 460.29	2-00-0052	119	\$ 115.66	2-00-7018	118	\$ 114.66
1-20-0012	112	\$ 543.08	2-00-0060	119	\$ 134.07	2-05-0001	140	\$ 58.10
1-20-0014	112	\$ 493.45	2-00-0065	119	\$ 118.26	2-05-0003	140	\$ 46.76
1-20-0015	112	\$ 636.59	2-00-0066	121	\$ 196.69	2-05-0005	140	\$ 58.40
1-20-0016	112	\$ 177.04	2-00-0073	120	\$ 221.60	2-05-0008	142	\$ 44.28
1-20-0017	112	\$ 305.01	2-00-0074	119	\$ 116.23	2-05-0010	130	\$ 105.59
12-0001P	117	\$ 84.19	2-00-0076	134	\$ 205.03	2-05-0011	126	\$ 88.22
120570	149	\$ 0.14	2-00-0085	119	\$ 210.15	2-05-0012-A	136	\$ 147.96
120574	149	\$ 0.61	2-00-0099	121	\$ 153.55	2-05-0012-B	136	\$ 141.00
133100	51	\$ 8.98	2-00-0101	120	\$ 323.40	2-05-0013	126	\$ 56.85
15-0001	117	\$ 42.48	2-00-0103	119	\$ 103.92	2-05-0014-A	136	\$ 28.14
15-0002	117	\$ 3.85	2-00-0104	120	\$ 277.46	2-05-0014-B	135	\$ 28.14
15-0005K	149	\$ 4.77	2-00-0105	120	\$ 332.42	2-05-0015	130	\$ 64.97
181001	138	\$ 0.38	2-00-0107	120	\$ 628.10	2-05-0016	125	\$ 73.72
182010	154	\$ 2.87	2-00-0108	119	\$ 120.64	2-05-0018	125	\$ 60.52
190020	175	\$ 0.65	2-00-0109	119	\$ 130.95	2-05-0019	125	\$ 26.76
190030	175	\$ 0.86	2-00-0110	119	\$ 151.31	2-05-0024	127	\$ 89.91
2-00-0001	122	\$ 121.54	2-00-0111	120	\$ 199.86	2-05-0025	118	\$ 45.96
2-00-0003	122	\$ 122.40	2-00-0115	120	\$ 148.40	2-05-0026	125	\$ 89.80
2-00-0006	122	\$ 159.51	2-00-0116	120	\$ 183.04	2-05-0031	128	\$ 89.16
2-00-0008	122	\$ 162.05	2-00-0118	124	\$ 124.81	2-05-0034	123	\$ 27.84
2-00-0009	123	\$ 256.26	2-00-0119	121	\$ 72.98	2-05-0038	108	\$ 64.47
2-00-0011	120	\$ 221.02	2-00-0122	127	\$ 506.46	2-05-0038-A	137	\$ 6.76
2-00-0013	119	\$ 118.73	2-00-0123	121	\$ 218.95	2-05-0038-B	137	\$ 5.00
2-00-0015	119	\$ 143.91	2-00-0124	121	\$ 190.97	2-05-0039-B	137	\$ 8.38
2-00-0021	123	\$ 238.08	2-00-0135	130	\$ 734.45	2-05-0039-C	137	\$ 8.79
2-00-0022	123	\$ 197.60	2-00-0136	130	\$ 168.24	2-05-0039D	137	\$ 8.79
2-00-0025	123	\$ 241.50	2-00-0138	130	\$ 840.24	2-05-0042	139	\$ 0.69

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2-05-0045	113	\$ 7.50	2-05-0158	141	\$ 37.02	3-00-0139	14	\$ 147.34
2-05-0047	113	\$ 8.17	2-05-0159	142	\$ 37.02	3-00-0140	78	\$ 198.27
2-05-0052	140	\$ 53.10	2-05-0160	142	\$ 41.25	3-00-0147	79	\$ 132.11
2-05-0053	138	\$ 1.69	2-05-0800	125	\$ 135.18	3-00-0159	79	\$ 101.49
2-05-0054	138	\$ 5.37	2-05-0801	118	\$ 55.27	3-00-0190	78	\$ 191.72
2-05-0055	140	\$ 40.99	2-05-5005	142	\$ 47.85	3-00-0193	78	\$ 198.27
2-05-0056	142	\$ 48.67	2-05-5007	139	\$ 1.50	3-00-0194	78	\$ 186.73
2-05-0065	128	\$ 296.75	24-300005	53	\$ 151.47	3-00-0196	79	\$ 189.07
2-05-0069	118	\$ 53.94	24-3000125	53	\$ 271.34	3-00-0205	78	\$ 183.43
2-05-0071	126	\$ 67.02	24-300025	53	\$ 171.32	3-00-0210	78	\$ 208.37
2-05-0072	126	\$ 148.08	24-300050	53	\$ 204.76	3-00-0221	78	\$ 217.95
2-05-0078	142	\$ 53.34	24-3100125	53	\$ 287.82	3-00-0223	78	\$ 205.10
2-05-0079	128	\$ 173.05	24-310025	53	\$ 197.34	3-00-0224	78	\$ 220.43
2-05-0080	138	\$ 2.01	24-310050	53	\$ 213.04	3-00-0225	79	\$ 199.49
2-05-0081	138	\$ 1.43	24-3200125	53	\$ 290.12	3-00-0239	78	\$ 180.45
2-05-0082	125	\$ 46.54	24-320050	53	\$ 212.75	3-00-0267	79	\$ 192.35
2-05-0086	125	\$ 91.07	29-9001	117	\$ 134.44	3-00-0286	17	\$ 223.34
2-05-0089	138	\$ 0.37	3-00-0001	88	\$ 121.85	3-00-5003	77	\$ 439.23
2-05-0092	125	\$ 3.97	3-00-0002	88	\$ 104.40	3-00-5008	77	\$ 335.03
2-05-0093	139	\$ 1.51	3-00-0003	88	\$ 130.00	3-00-5011	77	\$ 435.77
2-05-0095	139	\$ 0.83	3-00-0004	88	\$ 158.31	3-00-5019	77	\$ 435.77
2-05-0096	139	\$ 0.66	3-00-0005	88	\$ 158.34	3-00-5020	77	\$ 434.02
2-05-0099	128	\$ 110.17	3-00-0007	87	\$ 208.82	3-00-5023	77	\$ 488.20
2-05-0101	139	\$ 0.95	3-00-0008	87	\$ 221.38	3-00-6015	30	\$ 199.54
2-05-0105	124	\$ 50.61	3-00-0009	87	\$ 268.08	3-00-6017	80	\$ 244.09
2-05-0110	142	\$ 8.03	3-00-0010	87	\$ 103.98	3-00-7068	80	\$ 258.93
2-05-0114	128	\$ 74.52	3-00-0011	88	\$ 247.78	3-00-7133	80	\$ 124.50
2-05-0115	124	\$ 148.67	3-00-0012	88	\$ 227.39	3-00-7142	80	\$ 234.92
2-05-0123	128	\$ 162.15	3-00-0013	87	\$ 292.78	3-00-7164	80	\$ 273.59
2-05-0126	126	\$ 41.78	3-00-0017	87	\$ 131.66	3-00-7218	80	\$ 190.97
2-05-0130	140	\$ 39.22	3-00-0018	87	\$ 242.33	3-00-7219	80	\$ 234.82
2-05-0131	149	\$ 6.63	3-00-0019	87	\$ 203.35	3-00-7221	80	\$ 278.77
2-05-0133	124	\$ 118.26	3-00-0020	91	*	3-00-7238	80	\$ 211.55
2-05-0135	124	\$ 162.15	3-00-0021	91	\$ 276.91	3-00-7240	28	\$ 163.37
2-05-0141	124	\$ 117.94	3-00-0023	87	\$ 240.37	3-00-7241	29	\$ 338.12
2-05-0142	126	\$ 115.72	3-00-0029	88	\$ 232.07	3-00-7242	28	\$ 102.32
2-05-0143	124	\$ 114.55	3-00-0033	88	\$ 251.74	3-00-7243	28	\$ 87.94
2-05-0144A	127	\$ 366.52	3-00-0034	88	\$ 270.62	3-00-7244	28	\$ 126.36
2-05-0145	124	\$ 52.73	3-00-0035	88	\$ 215.88	3-00-7251	80	\$ 166.59
2-05-0149	140	\$ 42.66	3-00-0049	79	\$ 434.67	3-00-8000	78	\$ 60.88
2-05-0151	142	\$ 2.68	3-00-0077	78	\$ 154.82	3-00-8001	81	\$ 201.60
2-05-0154	140	\$ 43.20	3-00-0080	79	\$ 108.79	3-00-8002	81	\$ 385.02
2-05-0155	139	\$ 0.93	3-00-0124	87	\$ 322.98	3-00-8003	81	\$ 439.51



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ITEM #	PAGE	LIST PRICE	ITEM #	PAGE	LIST PRICE	ITEM #	PAGE	LIST PRICE
3-00-8004	81	\$ 347.95	3-05-0013	87	\$ 0.42	3-10-0032	86	\$ 169.24
3-00-8005	82	\$ 239.46	3-05-0037	87	\$ 3.17	3-10-0039	86	\$ 338.48
3-00-8006	82	\$ 263.00	3-05-0038	87	\$ 1.48	3-10-0040	93	\$ 214.80
3-00-8007	82	\$ 273.12	3-05-0044	87	\$ 12.80	3-10-0041	93	\$ 218.88
3-00-8008	82	\$ 96.44	3-05-0070	86	\$ 11.90	3-10-0042	93	\$ 222.95
3-00-8009	82	\$ 263.00	3-05-0117	93	\$ 16.78	3-10-0043	93	\$ 294.93
3-00-8010	82	\$ 291.75	3-05-0118	93	\$ 17.93	3-10-0044	93	\$ 299.05
3-00-8011	82	\$ 254.37	3-05-0119	93	\$ 16.78	3-10-0045	93	\$ 303.49
3-00-8012	82	\$ 497.03	3-05-0120	93	\$ 17.93	3-10-0046	93	\$ 20.03
3-00-8013	82	\$ 219.18	3-05-0121	93	\$ 16.78	3-10-0050	86	\$ 239.28
3-00-8014	82	\$ 160.44	3-05-0195	78	\$ 10.84	3-10-0054	86	\$ 319.20
3-00-8015	82	\$ 261.98	3-05-0196	78	\$ 10.84	3-10-0059	86	\$ 295.46
3-00-8016	83	\$ 295.37	3-05-0197	85	\$ 19.49	3-10-0065	93	\$ 245.08
3-00-8017	82	\$ 302.87	3-05-0262	93	\$ 20.74	3-10-0075	86	\$ 103.19
3-00-8018	83	\$ 438.06	3-05-0265	93	\$ 2.02	310520	182	\$ 10.89
3-00-8019	83	\$ 163.19	3-05-6001	61	\$ 45.49	3-15-0032-A	173	\$ 23.13
3-00-8020	83	\$ 160.78	3-05-6002	81	\$ 258.56	3-15-0032-B	173	\$ 23.13
3-00-8021	83	\$ 201.60	3-05-7091	80	\$ 16.13	3-15-0033-A	172	\$ 20.59
3-00-8022	83	\$ 34.80	3-05-7092	80	\$ 22.41	3-15-0033-B	172	\$ 20.59
3-00-8023	83	\$ 152.80	3-05-7093	80	\$ 23.85	3-15-0033-C	172	\$ 46.16
3-00-8024	83	\$ 616.90	3-05-7094	80	\$ 28.14	3-15-0035-A	172	\$ 16.97
3-00-8025	83	\$ 262.99	3-05-7095	30	\$ 38.03	3-15-0035-B	172	\$ 16.97
3-00-8026	83	\$ 234.63	3-05-7095-SB	80	\$ 39.76	3-15-0118-A	172	\$ 23.13
3-00-8027	83	\$ 421.21	3-05-7096	80	\$ 27.45	3-15-0118-C	172	\$ 22.00
3-00-8028	84	\$ 405.75	3-05-7097	80	\$ 28.14	3-15-0119-A	173	\$ 22.00
3-00-8029	84	\$ 146.09	3-05-7098	80	\$ 28.14	3-15-0119-C	173	\$ 23.13
3-00-8040	84	\$ 32.34	3-05-7099	80	\$ 19.13	3-15-0120	173	\$ 63.46
3-00-8041	181	\$ 70.82	3-05-7102	28	\$ 22.35	3-15-0122-A	172	\$ 43.25
3-00-8900	58	\$ 129.71	3-05-7103	28	\$ 20.96	3-15-0122-B	172	\$ 16.97
3-00-8901	85	\$ 129.71	3-05-7104	80	\$ 22.74	3-15-0123	172	\$ 33.54
3-00-8902	85	\$ 221.07	3-05-7105	80	\$ 17.20	3-15-0126	172	\$ 24.26
3-00-8905	41	\$ 208.68	3-05-7106	80	\$ 19.08	3-15-0129	172	\$ 21.87
3-00-8906	85	\$ 226.56	3-05-7107	80	\$ 21.92	3-15-0133	173	\$ 43.25
3-00-8907	85	\$ 138.20	3-05-7122	80	\$ 19.01	3-15-0135	173	\$ 8.70
3-00-8908	85	\$ 283.56	3-05-7123	80	\$ 22.74	3-15-0136	174	\$ 24.31
3-00-8909	85	\$ 255.61	3-05-7126	84	\$ 26.05	3-15-0317	174	\$ 8.51
3-00-8910	40	\$ 514.79	3-05-7128	84	\$ 26.05	3-15-0318	174	\$ 24.31
3-05-0001	140	\$ 57.22	3-05-7129	83	\$ 23.59	3-15-0319	175	\$ 5.84
3-05-0002	87	\$ 33.37	3-05-7130	84	\$ 23.59	3-15-0320	175	\$ 24.31
3-05-0003	149	\$ 1.48	3-05-7132	82	\$ 18.94	3-15-0321	175	\$ 12.16
3-05-0003G	149	\$ 1.48	3-05-7244	85	\$ 25.11	3-15-0322	175	\$ 24.31
3-05-0010	87	\$ 12.80	3-10-0021	86	\$ 183.11	3-20-0001	160	\$ 66.37
3-05-0012	87	\$ 12.80	3-10-0022	86	\$ 212.02	3-20-0002	160	\$ 22.12

PRICE LIST



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ITEM #	PAGE	LIST PRICE	ITEM #	PAGE	LIST PRICE	ITEM #	PAGE	LIST PRICE
3-20-0006	159	\$ 18.33	3-30-0045	164	\$ 109.16	3-50-7006	81	\$ 166.93
3-20-0007	161	\$ 18.57	3-30-0046	164	\$ 125.04	3-60-0001	64	\$ 121.48
3-20-0008	158	\$ 14.81	3-30-0048	164	\$ 125.04	3-60-0002	64	\$ 143.99
3-20-0009	161	\$ 28.54	3-30-0050	164	\$ 182.36	3-60-0003	64	\$ 150.72
3-20-0022	161	\$ 17.06	3-40-0001	190	\$ 82.64	3-60-0004	64	\$ 150.62
3-20-0023	161	\$ 37.08	3-40-0002	190	\$ 33.44	3-60-0009	64	\$ 157.77
3-20-0024	161	\$ 40.38	3-40-0002B	190	\$ 33.44	3-60-0017	64	\$ 177.94
3-20-0025	161	\$ 19.13	3-40-0003	190	\$ 46.57	3-60-0023	61	\$ 412.48
3-20-0026	159	\$ 29.39	3-40-0004	190	\$ 36.36	3-60-0024	61	\$ 412.48
3-20-0027	159	\$ 18.10	3-40-0007	190	\$ 40.75	3-60-0025	61	\$ 470.39
3-20-0028	159	\$ 24.68	3-40-0009	190	\$ 65.49	3-60-0026	61	\$ 532.30
3-20-0029	159	\$ 32.44	3-40-0010	190	\$ 85.19	3-60-0027	61	\$ 641.39
3-20-0030	159	\$ 38.08	3-40-0011	190	\$ 43.19	3-60-0030	62	\$ 584.37
3-20-0031	160	\$ 47.41	3-40-0012	190	\$ 72.47	3-60-0031	62	\$ 445.52
3-20-0032	160	\$ 67.85	3-40-0016	190	\$ 65.01	3-60-0032	62	\$ 470.84
3-20-0033	160	\$ 50.59	3-40-0017	190	\$ 41.15	3-60-0033	62	\$ 691.72
3-20-0034	160	\$ 47.66	3-40-0018	190	\$ 60.74	3-60-0034	62	\$ 495.59
3-20-0035	160	\$ 23.10	3-40-0019	190	\$ 72.67	3-60-0035	62	\$ 495.59
3-20-0037	158	\$ 29.62	3-40-0020	190	\$ 69.45	3-60-0036	62	\$ 127.65
3-20-0038	158	\$ 35.26	3-40-0034	190	\$ 62.56	3-60-0038	63	\$ 285.96
320019-0	186	\$ 7.90	3-40-0035	190	\$ 66.91	3-60-0041	63	\$ 480.55
320020-0	186	\$ 7.15	3-40-0036	190	\$ 69.28	3-60-0042	63	\$ 256.59
3-30-0002	163	\$ 62.52	3-40-0038	190	\$ 75.72	3-60-0043	65	\$ 642.79
3-30-0016	163	\$ 54.53	34-0146A	142	\$ 32.91	3-60-0044	65	\$ 642.79
3-30-0018	163	\$ 55.24	34-0199	142	\$ 84.10	3-60-0045	65	\$ 592.17
3-30-0025	163	\$ 54.53	340300	181	\$ 0.07	3-60-0046	65	\$ 374.35
3-30-0026	164	\$ 125.04	340301	181	\$ 0.64	3-60-0047	67	\$ 559.24
3-30-0027	164	\$ 154.41	340302	181	\$ 0.44	3-60-0048	63	\$ 966.11
3-30-0029	160	\$ 47.89	340303	181	\$ 0.42	3-60-0049	63	\$ 396.61
3-30-0030	162	\$ 64.43	340360	181	\$ 0.24	3-60-0050	65	\$ 580.47
3-30-0031	162	\$ 77.46	340362	181	\$ 0.24	3-60-0052	66	\$ 381.51
3-30-0032	162	\$ 64.43	3-40-5000	191	\$ 95.53	3-60-0053	66	\$ 391.74
3-30-0033	162	\$ 77.46	3-40-5001	190	\$ 325.06	3-60-0054	63	\$ 270.23
3-30-0034	162	\$ 61.90	34-5005	56	\$ 341.42	3-60-0055	66	\$ 699.21
3-30-0035	162	\$ 77.39	34-5007	56	\$ 360.70	3-60-0056	66	\$ 721.51
3-30-0036	158	\$ 115.08	34-5015-0	56	\$ 243.92	3-60-0057	63	\$ 604.46
3-30-0037	158	\$ 114.14	34-5019	56	\$ 101.12	3-60-0058	66	\$ 584.75
3-30-0039	163	\$ 55.24	34-5021	56	\$ 132.66	3-60-0060	63	\$ 523.70
3-30-0040	163	\$ 53.74	3-50-0001	64	\$ 231.67	3-60-0065	63	\$ 534.92
3-30-0041	163	\$ 55.24	3-50-0002	64	\$ 243.75	3-60-0066	63	\$ 680.58
3-30-0042	163	\$ 55.24	35-0001	181	\$ 0.38	3-60-0067	63	\$ 1,844.50
3-30-0043	164	\$ 109.16	35-0003	181	\$ 0.54	3-60-0119	57	\$ 283.52
3-30-0044	164	\$ 109.16	35-0022	181	\$ 0.47	3-60-0120	57	\$ 234.54



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3-60-0122	57	\$ 234.54	3-70-0402	11	\$ 576.43	3-72-7072	24	\$ 572.26
3-60-0123	57	\$ 283.52	3-70-0425	12	\$ 751.43	3-72-7074	24	\$ 564.97
3-60-0165	57	\$ 323.48	3-70-0446	176	\$ 297.00	3-72-7078	22	\$ 513.96
3-60-0168	57	\$ 187.73	3-70-0451	176	\$ 339.81	3-72-7079	22	\$ 513.96
3-60-1034	58	\$ 28.21	3-70-0467	15	\$ 884.04	3-72-7107	24	\$ 637.69
3-60-1035	58	\$ 28.21	3-70-0468	18	\$ 612.11	3-72-7108	24	\$ 462.22
3-60-1037	58	\$ 40.47	3-70-0469	10	\$ 640.32	3-73-1000	23	\$ 763.79
3-60-1038	58	\$ 18.85	3-70-0517	15	\$ 862.87	3-73-1500	23	\$ 807.64
3-60-1048	58	\$ 25.80	3-70-0519	15	\$ 862.87	3-73-2000	23	\$ 807.64
3-60-1052	58	\$ 28.21	3-70-0521	15	\$ 865.44	3-73-2005	28	\$ 251.45
3-60-1059	58	\$ 20.93	3-70-0525	10	\$ 555.17	3-73-2500	23	\$ 763.79
3-60-1083	58	\$ 31.03	3-70-0530	12	\$ 820.10	3-73-3000	28	\$ 765.90
3-60-1087	58	\$ 31.54	3-70-0533	11	\$ 684.67	3-73-3050	28	\$ 828.27
3-60-1090	58	\$ 27.13	3-70-0800	34	\$ 1,549.93	3-73-3055	28	\$ 841.78
3-60-1092	58	\$ 28.21	3-70-0801	34	\$ 894.99	3-73-4000	29	\$ 1,295.10
3-60-1096	58	\$ 27.92	3-70-0802	35	\$ 887.79	3-74-7035	25	\$ 992.02
3-60-1099	58	\$ 28.72	3-70-0803	35	\$ 1,014.84	3-74-7036	25	\$ 992.02
3-60-1102	58	\$ 26.70	3-70-0804	35	\$ 887.03	3-74-7500	27	\$ 364.51
3-60-1111	58	\$ 27.13	3-70-0805	36	\$ 429.85	3-78-7020	29	\$ 564.27
3-60-1116	58	\$ 18.85	3-70-0807	34	\$ 1,152.27	3-80-0202	10	\$ 1,271.38
36-0119	167	\$ 10.91	3-70-0809	35	\$ 632.11	3-80-0203	13	\$ 1,599.16
36-0207	167	\$ 10.91	3-70-0810	40	\$ 2,573.27	3-80-0239	13	\$ 1,315.40
36-0208	167	\$ 3.38	3-70-0900	37	\$ 635.36	3-80-0265	13	\$ 1,394.64
3-60-5050	65	\$ 348.99	3-70-0901	37	\$ 702.00	3-80-0266	16	\$ 1,337.81
3-60-6030	61	\$ 664.66	3-70-0902	37	\$ 763.95	3-80-0267	17	\$ 1,454.36
3-60-6040	59	\$ 453.90	3-70-0903	38	\$ 731.88	3-80-0269	17	\$ 1,442.65
3-60-6042	59	\$ 607.82	3-70-0904	38	\$ 877.07	3-80-0300	39	\$ 1,880.32
3-70-0087	176	\$ 276.95	3-70-0905	38	\$ 719.08	3-80-0305	39	\$ 1,796.31
3-70-0112	41	\$ 782.55	3-70-0906	37	\$ 731.89	3-80-0400	35	\$ 1,390.84
3-70-0114	41	\$ 798.61	3-70-0907	37	\$ 779.90	3-80-0401	36	\$ 1,204.06
3-70-0116	41	\$ 1,079.52	3-70-0908	38	\$ 775.70	38-0123	117	\$ 44.95
3-70-0117	55	\$ 1,244.40	3-70-0909	38	\$ 1,026.56	38-0146	117	\$ 113.61
3-70-0118	55	\$ 1,400.30	3-70-0910	39	\$ 1,030.65	38-0400A	143	\$ 45.45
3-70-0120	38	\$ 976.66	3-70-0911	41	\$ 665.85	38-0400B	143	\$ 49.86
3-70-0121	38	\$ 896.07	3-70-0912	39	\$ 487.00	38-0430	183	\$ 3.79
3-70-0123	39	\$ 1,187.69	3-70-0915	39	\$ 1,377.00	38-0440	183	\$ 3.79
3-70-0217	10	\$ 628.10	3-70-0918	40	\$ 2,619.89	38-0443	183	\$ 3.79
3-70-0316	176	\$ 361.22	3-70-5006	20	\$ 758.19	3-80-5005	20	\$ 1,590.39
3-70-0339	10	\$ 616.61	3-70-5015	20	\$ 623.99	3-80-5011	20	\$ 1,426.42
3-70-0351	14	\$ 724.64	3-70-5022	50	\$ 91.51	3-80-5050	55	\$ 236.67
3-70-0352	15	\$ 819.81	37-1028	184	\$ 0.67	3-84-7007	59	\$ 453.90
3-70-0392	12	\$ 687.77	37-1038	184	\$ 1.68	3-85-0032	64	\$ 35.95
3-70-0394	11	\$ 587.46	3-72-7036	24	\$ 780.61	3-90-0100	31	\$ 566.48

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3-90-0102	31	\$ 20.64	4-00-0044	261	\$ 86.82	4-00-0098	274	\$ 110.57
3-90-0103	180	\$ 62.38	4-00-0045	261	\$ 78.78	4-00-0099	274	\$ 100.23
3-90-0105	31	\$ 249.16	4-00-0046	261	\$ 78.78	4-00-0100	274	\$ 100.23
3-90-0106	31	\$ 248.29	4-00-0047	261	\$ 29.83	4-00-0101	274	\$ 114.44
3-90-0112	81	\$ 33.34	4-00-0048	261	\$ 10.74	4-00-0102	274	\$ 110.57
3-90-0114	29	\$ 272.69	4-00-0050	261	\$ 191.56	4-00-0103	258	\$ 9.73
3-90-0115	31	\$ 31.70	4-00-0051	261	\$ 167.13	4-00-0104	275	\$ 17.69
3-90-0116	31	\$ 31.70	4-00-0052	261	\$ 165.41	4-00-0105	275	\$ 100.23
3-90-0118	31	\$ 139.20	4-00-0053	261	\$ 179.09	4-00-0107	275	\$ 176.58
3-90-0120	32	\$ 1,004.86	4-00-0054	261	\$ 179.09	4-00-0108	275	\$ 198.56
3-90-0121	31	\$ 135.77	4-00-0055	261	\$ 217.82	4-00-0109	275	\$ 189.51
3-90-0122	30	\$ 182.45	4-00-0056	261	\$ 177.62	4-00-0110	275	\$ 225.15
3-90-0123	31	\$ 210.61	4-00-0057	261	\$ 219.04	4-00-0114	257	\$ 168.12
3-90-0125	33	\$ 306.95	4-00-0058	261	\$ 177.62	4-05-0042	271	\$ 133.70
3-90-0126	33	\$ 149.02	400006	157	\$ 10.55	4-05-0060	273	\$ 49.94
3-90-0126BK	33	\$ 149.02	4-00-0060	262	\$ 5.15	4-05-0065	273	\$ 85.43
3-90-0130	195	\$ 85.87	4-00-0061	262	\$ 0.39	4-05-0070	263	\$ 7.42
3-90-0131	195	\$ 58.71	4-00-0062	262	\$ 1.30	4-05-0075	263	\$ 22.72
3-90-0132	230	\$ 49.39	4-00-0064	261	\$ 2.59	4-05-0087	264	\$ 31.73
3-90-0133	214	\$ 54.02	4-00-0065	262	\$ 5.54	4-05-0097	256	\$ 41.96
3-90-0200	30	\$ 878.75	4-00-0066	262	\$ 1.27	4-05-0098	256	\$ 52.12
4-00-0010-B	274	\$ 203.96	4-00-0067	262	\$ 1.27	4-05-0101	258	\$ 32.16
4-00-0019	274	\$ 189.61	4-00-0068	262	\$ 11.11	4-05-0103	273	\$ 32.16
4-00-0020	274	\$ 217.04	4-00-0069	261	\$ 65.85	4-05-0105	258	\$ 49.94
4-00-0021	262	\$ 124.08	4-00-0070	262	\$ 28.42	4-05-0106	275	\$ 54.02
4-00-0022	262	\$ 151.62	4-00-0071	262	\$ 22.26	4-05-0107	265	\$ 58.78
4-00-0023	262	\$ 32.51	4-00-0072	262	\$ 22.26	4-05-0108	265	\$ 39.05
4-00-0024	261	\$ 2.45	4-00-0073	262	\$ 22.26	4-05-0114	265	\$ 35.15
4-00-0025	261	\$ 5.34	4-00-0074	262	\$ 32.51	4-05-0115	272	\$ 20.99
4-00-0027	261	\$ 174.17	4-00-0075	262	\$ 32.51	4-05-0116	272	\$ 18.33
4-00-0028	261	\$ 179.09	4-00-0076	262	\$ 32.51	4-05-0119	266	\$ 43.65
4-00-0029	261	\$ 21.77	4-00-0079	262	\$ 1.27	4-05-0124	266	\$ 37.47
4-00-0030	261	\$ 11.77	4-00-0081	262	\$ 1.27	4-05-0126	266	\$ 47.95
4-00-0032	256	\$ 165.61	4-00-0082	262	\$ 35.64	4-05-0130	266	\$ 46.18
4-00-0035	261	\$ 15.34	4-00-0083	262	\$ 35.64	4-05-0132	267	\$ 70.01
4-00-0036	261	\$ 5.16	4-00-0084	262	\$ 153.11	4-05-0135	267	\$ 42.45
4-00-0037	261	\$ 1.38	4-00-0085	262	\$ 154.73	4-05-0142	268	\$ 63.56
4-00-0038	261	\$ 1.27	4-00-0087	256	\$ 198.85	4-05-0143	268	\$ 41.83
4-00-0039	261	\$ 2.45	4-00-0090	274	\$ 3.10	4-05-0146	269	\$ 82.26
4-00-0040	261	\$ 5.16	4-00-0092	274	\$ 27.97	4-05-0154	267	\$ 49.52
4-00-0041	261	\$ 0.36	4-00-0093	274	\$ 54.02	4-05-0165	268	\$ 79.63
4-00-0042	261	\$ 82.71	4-00-0094	274	\$ 17.65	4-05-0166	265	\$ 39.03
4-00-0043	261	\$ 82.71	4-00-0097	274	\$ 110.57	4-05-0169	268	\$ 89.38



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4-05-0170	268	\$ 107.99	4-05-0285	271	\$ 133.52	4-05-0347	263	\$ 39.54
4-05-0175	269	\$ 87.61	4-05-0288	270	\$ 80.29	4-05-0348	263	\$ 19.97
4-05-0176	269	\$ 69.37	4-05-0296	269	\$ 98.26	4-05-0349	263	\$ 24.10
4-05-0178	269	\$ 100.33	4-05-0297	269	\$ 78.25	4-05-0350	263	\$ 10.10
4-05-0183	269	\$ 102.08	4-05-0298	264	\$ 48.79	4-05-0351	263	\$ 10.65
4-05-0184	269	\$ 132.63	4-05-0299	266	\$ 46.21	4-05-0352	263	\$ 7.83
4-05-0197	270	\$ 97.69	4-05-0300	270	\$ 85.29	4-05-0353	263	\$ 9.67
4-05-0201	270	\$ 76.73	4-05-0301	270	\$ 76.23	4-05-0354	263	\$ 19.30
4-05-0203	271	\$ 124.17	4-05-0302	266	\$ 49.06	4-05-0355	263	\$ 46.22
4-05-0206	271	\$ 110.57	4-05-0303	271	\$ 174.91	4-05-0356	263	\$ 55.81
4-05-0209	271	\$ 83.78	4-05-0304	270	\$ 72.68	4-05-0357	264	\$ 11.58
4-05-0216	266	\$ 61.40	4-05-0305	267	\$ 43.61	4-05-0358	264	\$ 27.03
4-05-0230	274	\$ 13.05	4-05-0306	269	\$ 77.07	4-05-0359	264	\$ 31.55
4-05-0233	274	\$ 34.04	4-05-0307	263	\$ 8.68	4-05-0360	264	\$ 34.13
4-05-0235	264	\$ 38.83	4-05-0308	266	\$ 61.40	4-05-0362	264	\$ 34.13
4-05-0236	274	\$ 0.44	4-05-0310	263	\$ 25.41	4-05-0363	264	\$ 32.17
4-05-0240	266	\$ 36.70	4-05-0311	267	\$ 58.68	4-05-0364	264	\$ 19.31
4-05-0241	270	\$ 77.12	4-05-0312	263	\$ 15.33	4-05-0365	264	\$ 29.26
4-05-0242	270	\$ 179.18	4-05-0313	265	\$ 36.70	4-05-0366	264	\$ 38.49
4-05-0243	270	\$ 76.23	4-05-0314	267	\$ 43.65	4-05-0368	264	\$ 38.49
4-05-0244	266	\$ 39.87	4-05-0315	269	\$ 80.98	4-05-0369	264	\$ 33.35
4-05-0245	257	\$ 16.65	4-05-0316	266	\$ 43.74	4-05-0370	264	\$ 38.71
4-05-0246	271	\$ 122.52	4-05-0320	273	\$ 15.03	4-05-0372	266	\$ 67.95
4-05-0247	265	\$ 38.50	4-05-0321	273	\$ 5.81	4-05-0376	264	\$ 9.67
4-05-0251	269	\$ 109.47	4-05-0325	273	\$ 71.19	4-05-0377	264	\$ 10.96
4-05-0252	269	\$ 86.74	4-05-0326	273	\$ 62.60	4-05-0378	264	\$ 11.73
4-05-0255	271	\$ 97.88	4-05-0327	273	\$ 8.98	4-05-0379	264	\$ 10.96
4-05-0257	267	\$ 67.05	4-05-0328	273	\$ 2.14	4-05-0380	264	\$ 14.15
4-05-0258	268	\$ 84.42	4-05-0329	273	\$ 6.14	4-05-0381	264	\$ 41.84
4-05-0260	267	\$ 71.96	4-05-0330	273	\$ 30.99	4-05-0383	264	\$ 58.61
4-05-0261	264	\$ 58.61	4-05-0331	273	\$ 50.24	4-05-0384	264	\$ 81.52
4-05-0262	266	\$ 67.00	4-05-0332	273	\$ 31.16	4-05-0388	264	\$ 19.96
4-05-0265	270	\$ 128.52	4-05-0333	273	\$ 26.81	4-05-0389	265	\$ 35.92
4-05-0266	265	\$ 41.99	4-05-0334	273	\$ 7.44	4-05-0390	265	\$ 23.06
4-05-0267	269	\$ 102.85	4-05-0335	273	\$ 232.54	4-05-0392	265	\$ 74.22
4-05-0268	265	\$ 38.42	4-05-0336	273	\$ 185.08	4-05-0393	265	\$ 25.63
4-05-0275	266	\$ 46.21	4-05-0340	263	\$ 8.13	4-05-0395	265	\$ 34.13
4-05-0276	264	\$ 64.21	4-05-0341	263	\$ 8.38	4-05-0398	265	\$ 41.08
4-05-0277	266	\$ 40.72	4-05-0342	263	\$ 7.61	4-05-0399	265	\$ 43.65
4-05-0278	268	\$ 65.64	4-05-0343	263	\$ 7.09	4-05-0400	265	\$ 43.65
4-05-0279	269	\$ 116.57	4-05-0344	263	\$ 10.95	4-05-0401	265	\$ 46.22
4-05-0281	266	\$ 46.20	4-05-0345	263	\$ 14.15	4-05-0402	265	\$ 41.08
4-05-0282	265	\$ 41.08	4-05-0346	263	\$ 21.19	4-05-0406	265	\$ 53.33

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4-05-0408	265	\$ 59.08	4-05-0465	269	\$ 123.44	4-05-0514	271	\$ 156.89
4-05-0409	265	\$ 34.13	4-05-0466	269	\$ 126.01	4-05-0515	271	\$ 223.82
4-05-0410	265	\$ 53.94	4-05-0467	269	\$ 94.61	4-05-0516	271	\$ 89.97
4-05-0411	265	\$ 46.22	4-05-0469	269	\$ 174.91	4-05-0517	271	\$ 92.55
4-05-0412	265	\$ 48.79	4-05-0470	269	\$ 154.32	4-05-0518	271	\$ 113.14
4-05-0414	265	\$ 56.51	4-05-0471	269	\$ 115.71	4-05-0519	271	\$ 169.76
4-05-0415	265	\$ 67.00	4-05-0472	269	\$ 246.98	4-05-0520	271	\$ 213.52
4-05-0416	274	\$ 64.24	4-05-0473	269	\$ 138.87	4-05-0521	271	\$ 162.04
4-05-0417	274	\$ 87.97	4-05-0474	269	\$ 169.76	4-05-0522	271	\$ 73.35
4-05-0418	265	\$ 84.83	4-05-0475	270	\$ 105.42	4-05-0523	271	\$ 95.12
4-05-0420	266	\$ 42.81	4-05-0476	270	\$ 141.45	4-05-0524	271	\$ 124.83
4-05-0421	266	\$ 51.37	4-05-0477	270	\$ 46.22	4-05-0525	271	\$ 171.16
4-05-0422	266	\$ 68.21	4-05-0478	270	\$ 56.51	4-05-0526	271	\$ 213.52
4-05-0423	266	\$ 78.27	4-05-0479	270	\$ 92.55	4-05-0527	271	\$ 21.88
4-05-0424	266	\$ 23.06	4-05-0480	270	\$ 97.69	4-05-0540	267	\$ 56.51
4-05-0426	266	\$ 41.08	4-05-0481	270	\$ 62.50	4-05-0550	267	\$ 77.10
4-05-0427	266	\$ 41.08	4-05-0482	270	\$ 68.21	4-05-0552	267	\$ 87.40
4-05-0429	266	\$ 61.67	4-05-0483	270	\$ 107.99	4-05-0553	267	\$ 113.14
4-05-0430	266	\$ 59.08	4-05-0484	270	\$ 77.10	4-05-0554	267	\$ 66.81
4-05-0432	266	\$ 35.92	4-05-0485	270	\$ 95.12	4-05-0555	267	\$ 78.50
4-05-0434	266	\$ 40.72	4-05-0486	270	\$ 102.85	4-05-0556	267	\$ 78.50
4-05-0436	266	\$ 41.08	4-05-0487	270	\$ 84.83	4-05-0557	267	\$ 17.90
4-05-0437	266	\$ 48.53	4-05-0488	270	\$ 127.41	4-05-0558	267	\$ 25.63
4-05-0439	266	\$ 56.02	4-05-0490	270	\$ 146.60	4-05-0559	267	\$ 28.20
4-05-0442	267	\$ 53.69	4-05-0491	270	\$ 110.57	4-05-0560	267	\$ 61.40
4-05-0443	267	\$ 52.73	4-05-0492	270	\$ 151.75	4-05-0561	267	\$ 35.92
4-05-0445	267	\$ 59.08	4-05-0494	270	\$ 95.12	4-05-0562	267	\$ 41.08
4-05-0447	267	\$ 67.43	4-05-0495	270	\$ 66.81	4-05-0563	267	\$ 53.94
4-05-0449	267	\$ 65.64	4-05-0496	272	\$ 42.33	4-05-0564	267	\$ 61.67
4-05-0450	268	\$ 100.92	4-05-0498	270	\$ 75.93	4-05-0565	267	\$ 43.65
4-05-0451	268	\$ 84.83	4-05-0500	270	\$ 80.30	4-05-0566	267	\$ 46.22
4-05-0452	268	\$ 78.06	4-05-0501	270	\$ 85.02	4-05-0567	267	\$ 52.46
4-05-0453	269	\$ 97.18	4-05-0502	270	\$ 77.09	4-05-0571	267	\$ 48.79
4-05-0454	269	\$ 53.94	4-05-0503	270	\$ 71.96	4-05-0572	268	\$ 48.79
4-05-0455	269	\$ 77.10	4-05-0504	270	\$ 92.83	4-05-0573	268	\$ 59.08
4-05-0457	269	\$ 74.53	4-05-0505	270	\$ 77.10	4-05-0575	268	\$ 48.79
4-05-0458	269	\$ 77.10	4-05-0506	271	\$ 64.24	4-05-0576	268	\$ 79.71
4-05-0459	269	\$ 72.26	4-05-0508	271	\$ 148.00	4-05-0577	268	\$ 64.24
4-05-0460	269	\$ 89.97	4-05-0509	271	\$ 192.93	4-05-0578	268	\$ 66.81
4-05-0461	269	\$ 92.55	4-05-0510	271	\$ 192.93	4-05-0579	268	\$ 64.24
4-05-0462	269	\$ 87.40	4-05-0511	271	\$ 113.14	4-05-0580	268	\$ 56.51
4-05-0463	269	\$ 92.55	4-05-0512	271	\$ 120.86	4-05-0581	268	\$ 53.94
4-05-0464	269	\$ 126.01	4-05-0513	271	\$ 164.62	4-05-0582	268	\$ 66.81



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4-05-0583	268	\$ 56.51	4-10-0009-F	198	\$ 2.82	4-10-0049	213	\$ 17.93
4-05-0585	268	\$ 51.37	4-10-0010-A	199	\$ 1.77	4-10-0054	197	\$ 7.26
4-05-0586	268	\$ 48.79	4-10-0010-B	199	\$ 1.10	4-10-0054-A	197	\$ 8.46
4-05-0587	268	\$ 56.51	4-10-0010-C	199	\$ 1.85	4-10-0055	197	\$ 7.90
4-05-0588	268	\$ 77.10	4-10-0010-E	199	\$ 2.80	4-10-0057-A	198	\$ 2.68
4-05-0589	268	\$ 66.81	4-10-0010-F	199	\$ 3.69	4-10-0057-B	198	\$ 2.52
4-05-0590	268	\$ 73.35	4-10-0011-A	198	\$ 3.93	4-10-0067	199	\$ 3.98
4-05-0591	273	\$ 189.71	4-10-0011-B	198	\$ 4.53	410008	167	\$ 6.69
4-05-0592	273	\$ 176.76	4-10-0011-C	198	\$ 5.07	4-10-0084	197	\$ 11.39
4-05-0593	273	\$ 184.51	4-10-0012	200	\$ 4.37	410009	167	\$ 3.76
4-05-0594	273	\$ 201.57	4-10-0013-A	198	\$ 1.17	4-10-0092-E	197	\$ 5.78
4-05-0595	273	\$ 127.70	4-10-0013-B	198	\$ 1.17	4-10-0092-F	197	\$ 14.03
4-05-0596	263	\$ 39.38	4-10-0013-D	198	\$ 1.93	4-10-0094	197	\$ 6.15
4-05-0597	272	\$ 57.24	4-10-0013-E	198	\$ 3.89	410014	167	\$ 8.19
4-05-0600	265	\$ 50.01	4-10-0013-F	198	\$ 1.91	4-10-0288	275	\$ 82.64
4-10-0001-A	197	\$ 0.89	4-10-0013-G	198	\$ 1.84	4-10-1020	199	\$ 9.38
4-10-0001-B	197	\$ 0.48	4-10-0013-I	198	\$ 2.35	4-10-1021	199	\$ 4.44
4-10-0001-C	197	\$ 0.87	4-10-0014-B	198	\$ 4.37	4-10-1022	199	\$ 4.44
4-10-0001-E	197	\$ 2.03	4-10-0014-D	198	\$ 4.80	4-10-1028	136	\$ 53.57
4-10-0001-F	197	\$ 2.65	4-10-0014-E	198	\$ 4.80	4-10-1038	127	\$ 55.01
4-10-0002-C	197	\$ 5.36	4-10-0014-F	198	\$ 1.91	410112	167	\$ 7.44
4-10-0002-E	197	\$ 3.62	4-10-0014-G	198	\$ 4.80	410120	168	\$ 46.08
4-10-0002-F	197	\$ 7.07	4-10-0014-H	198	\$ 5.58	410121	168	\$ 46.08
4-10-0003-A	197	\$ 1.44	4-10-0014-I	198	\$ 4.80	4-10-1211	114	\$ 6.56
4-10-0003-B	197	\$ 2.23	4-10-0014-J	198	\$ 3.95	4-10-1212	114	\$ 6.56
4-10-0003-C	197	\$ 2.68	4-10-0018	199	\$ 6.86	4-10-1213	113	\$ 12.37
4-10-0003-E	197	\$ 2.35	4-10-0018-B	197	\$ 8.18	4-10-1214	113	\$ 15.89
4-10-0004-A	197	\$ 1.09	4-10-0019	199	\$ 7.11	4-10-1215	105	\$ 5.82
4-10-0004-B	197	\$ 1.25	4-10-0020	199	\$ 8.09	4-10-1216	113	\$ 21.35
4-10-0004-C	197	\$ 2.34	4-10-0025	198	\$ 6.54	4-10-1217	200	\$ 4.49
4-10-0004-E	197	\$ 4.72	4-10-0026	197	\$ 5.92	4-10-1218	200	\$ 2.89
4-10-0004-F	197	\$ 6.84	4-10-0027	199	\$ 6.18	4-10-1219	200	\$ 3.01
4-10-0005-B	197	\$ 7.05	4-10-0028	199	\$ 8.09	410122	168	\$ 46.08
4-10-0005-C	197	\$ 11.35	4-10-0029	199	\$ 9.44	4-10-1220	200	\$ 3.51
4-10-0006-B	197	\$ 0.41	4-10-0034	198	\$ 20.57	4-10-1221	200	\$ 2.89
4-10-0006-C	198	\$ 0.58	4-10-0037	114	\$ 7.89	4-10-1222	200	\$ 3.01
4-10-0006-E	198	\$ 1.10	4-10-0038	114	\$ 2.48	4-10-1223	200	\$ 7.83
4-10-0006-F	198	\$ 1.34	4-10-0040	114	\$ 6.52	4-10-1224	200	\$ 7.83
4-10-0007-E	198	\$ 1.37	4-10-0041	114	\$ 2.91	4-10-1225	207	\$ 4.33
4-10-0008-A	198	\$ 0.71	4-10-0042	114	\$ 3.76	4-10-1226	207	\$ 8.22
4-10-0008-E	198	\$ 1.37	4-10-0045	114	\$ 9.35	4-10-1227	207	\$ 8.65
4-10-0009-C	198	\$ 1.25	4-10-0046	113	\$ 24.81	4-10-1228	200	\$ 8.44
4-10-0009-E	198	\$ 2.33	4-10-0047	113	\$ 26.20	4-10-1229	200	\$ 7.31

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410123	168	\$ 46.08	4-15-0019	257	\$ 9.95	4-15-0072	256	\$ 37.34
4-10-1230	200	\$ 9.91	4-15-0020	257	\$ 9.95	4-15-0073	260	\$ 38.33
4-10-1231	200	\$ 1.40	4-15-0022	257	\$ 2.54	4-15-0074	260	\$ 46.50
4-10-1232	200	\$ 0.88	4-15-0023	258	\$ 13.05	4-15-0075	260	\$ 25.59
4-10-1233	200	\$ 1.47	4-15-0024	258	\$ 13.05	4-15-0076	260	\$ 24.93
4-10-1234	200	\$ 4.21	4-15-0025	258	\$ 9.79	4-15-0077	260	\$ 12.14
4-10-1235	200	\$ 3.29	4-15-0026	258	\$ 13.05	4-15-0077B	260	\$ 12.05
4-10-1236	200	\$ 3.51	4-15-0027	258	\$ 13.05	4-15-0077C	260	\$ 13.30
4-10-1237	199	\$ 6.86	4-15-0028	258	\$ 3.32	4-15-0078	260	\$ 32.79
4-10-1238	199	\$ 7.37	4-15-0029	258	\$ 177.74	4-15-0079	260	\$ 32.79
4-10-1239	219	\$ 43.81	4-15-0030	258	\$ 171.78	4-15-0080	260	\$ 30.24
410124	168	\$ 46.68	4-15-0033	258	\$ 3.37	4-15-0080BK	254	\$ 33.27
4-10-1240	219	\$ 11.14	4-15-0034	258	\$ 3.37	4-15-0081	257	\$ 282.00
4-10-1241	219	\$ 1.31	4-15-0035	258	\$ 10.78	4-15-0082	111	\$ 159.78
4-10-1242	219	\$ 30.25	4-15-0037	258	\$ 5.70	4-15-0091	256	\$ 8.16
4-10-1243	219	\$ 43.38	4-15-0038	258	\$ 17.20	4-15-0092	256	\$ 5.80
4-10-1249	219	\$ 13.18	4-15-0039	259	\$ 12.56	4-15-0093	256	\$ 9.53
410125	168	\$ 46.68	4-15-0040	259	\$ 16.59	4-15-0094	256	\$ 18.92
410128	167	\$ 12.10	4-15-0041	259	\$ 6.36	4-15-0095	256	\$ 5.80
410132	167	\$ 3.61	4-15-0042	259	\$ 19.91	4-15-0096	256	\$ 5.80
410133	167	\$ 0.82	4-15-0043	259	\$ 20.57	4-15-0097	256	\$ 5.80
410134	167	\$ 35.91	4-15-0044	259	\$ 0.71	4-15-0098	256	\$ 5.80
410135	167	\$ 4.17	4-15-0045	259	\$ 4.20	4-15-0099	256	\$ 5.80
410139	167	\$ 54.30	4-15-0046	259	\$ 176.25	4-15-0100	256	\$ 1.44
410239	167	\$ 33.28	4-15-0048	259	\$ 176.25	4-15-0101	256	\$ 4.46
410241	168	\$ 35.24	4-15-0050	259	\$ 228.08	4-15-0102	256	\$ 5.80
410242	168	\$ 49.56	4-15-0051	260	\$ 37.46	4-15-0103	256	\$ 8.38
410243	168	\$ 46.08	4-15-0052	259	\$ 220.33	4-15-0104	256	\$ 1.44
410244	167	\$ 38.42	4-15-0053	260	\$ 51.88	4-15-0105	256	\$ 9.26
410305	168	\$ 58.20	4-15-0054	260	\$ 13.18	4-15-0106	256	\$ 8.82
410310	168	\$ 85.37	4-15-0056	259	\$ 10.95	4-15-0107	256	\$ 1.44
410320	168	\$ 39.72	4-15-0058	259	\$ 3.37	4-15-0108	256	\$ 5.80
4-15-0008	257	\$ 15.71	4-15-0060	259	\$ 7.74	4-15-0109	256	\$ 50.90
4-15-0009	257	\$ 5.15	4-15-0061	259	\$ 25.11	4-15-0110	256	\$ 5.79
4-15-0010	257	\$ 33.35	4-15-0062	259	\$ 23.17	4-15-0111	256	\$ 9.32
4-15-0011	257	\$ 17.20	4-15-0063	259	\$ 14.93	4-15-0112	256	\$ 7.22
4-15-0012	257	\$ 13.71	4-15-0064	259	\$ 8.24	4-15-0116	257	\$ 293.61
4-15-0013	257	\$ 0.66	4-15-0065	256	\$ 49.41	4-15-0119	260	\$ 22.62
4-15-0014	257	\$ 63.49	4-15-0067	256	\$ 53.46	4-15-0121	260	\$ 23.99
4-15-0015	257	\$ 94.74	4-15-0068	256	\$ 20.41	4-15-0123	257	\$ 5.48
4-15-0016	257	\$ 134.95	4-15-0069	256	\$ 37.01	4-15-0125	214	\$ 28.36
4-15-0017	257	\$ 3.59	4-15-0070	256	\$ 5.02	4-20-0008	223	\$ 5.31
4-15-0018	257	\$ 16.54	4-15-0071	256	\$ 7.50	4-20-0015	219	\$ 72.23



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4-20-0052	225	\$ 13.05	42-0062	137	\$ 4.18	4-25-0082	209	\$ 16.58
4-20-0071	204	\$ 14.33	42-0067	139	\$ 1.27	4-25-0083	209	\$ 3.74
4-20-0072	204	\$ 13.17	4-25-0001	207	\$ 8.57	4-25-0084	209	\$ 5.44
4-20-0073	204	\$ 10.51	4-25-0003	207	\$ 7.14	4-25-0084G	209	\$ 5.44
4-20-0074	204	\$ 8.90	4-25-0010	210	\$ 22.07	4-25-0085	209	\$ 1.60
4-20-0075	204	\$ 17.20	4-25-0011	207	\$ 5.96	4-25-0086	209	\$ 1.31
4-20-0076	204	\$ 15.05	4-25-0012	207	\$ 4.01	4-25-0087	209	\$ 5.42
4-20-0077	204	\$ 15.05	4-25-0047	187	\$ 33.08	4-25-0087A	209	\$ 5.42
4-20-0078	204	\$ 9.24	4-25-0048	208	\$ 27.33	4-25-0088	209	\$ 19.17
4-20-0079	204	\$ 5.59	4-25-0049	208	\$ 33.15	4-25-0088BK	209	\$ 25.59
4-20-0080	204	\$ 6.25	4-25-0050	207	\$ 8.69	4-25-0088PC	209	\$ 23.46
4-20-0082	205	\$ 18.20	4-25-0051	207	\$ 6.03	4-25-0089	209	\$ 25.53
4-20-0083	205	\$ 12.88	4-25-0052	207	\$ 8.57	4-25-0090	209	\$ 23.03
4-20-0084	205	\$ 20.57	4-25-0054	188	\$ 57.53	4-25-0091	209	\$ 22.34
4-20-0085	205	\$ 5.53	4-25-0055	208	\$ 25.52	4-25-0092	210	\$ 11.84
4-20-0086	205	\$ 6.25	4-25-0056	208	\$ 21.95	4-25-0092B	210	\$ 11.41
4-20-0087	205	\$ 5.92	4-25-0057	208	\$ 16.86	4-25-0093	210	\$ 12.76
4-20-0088	205	\$ 17.20	4-25-0058	208	\$ 26.27	4-25-0093B	210	\$ 12.29
4-20-0089	205	\$ 16.37	4-25-0059	208	\$ 41.66	4-25-0094	212	\$ 22.23
4-20-0090	205	\$ 5.75	4-25-0060	208	\$ 20.76	4-25-0095	212	\$ 22.29
4-20-0091	205	\$ 8.07	4-25-0061	208	\$ 20.76	4-25-0096	213	\$ 11.07
4-20-0092	206	\$ 1.88	4-25-0062	208	\$ 30.18	4-25-0097	213	\$ 11.56
4-20-0093	206	\$ 3.65	4-25-0063	208	\$ 31.23	4-25-0099	113	\$ 8.16
4-20-0094	206	\$ 1.17	4-25-0064	208	\$ 35.83	4-25-0100	113	\$ 9.68
4-20-0095	206	\$ 2.22	4-25-0065	208	\$ 3.18	4-25-0101	213	\$ 13.78
4-20-0096	206	\$ 1.66	4-25-0066	208	\$ 3.51	4-25-0102	213	\$ 21.41
4-20-0097	206	\$ 3.10	4-25-0067	208	\$ 2.43	4-25-0103	209	\$ 4.48
4-20-0098	206	\$ 2.93	4-25-0068	208	\$ 2.74	4-25-0104	212	\$ 22.69
4-20-0099	206	\$ 1.93	4-25-0069	210	\$ 25.55	4-25-0105	113	\$ 11.92
4-20-0100	206	\$ 2.98	4-25-0070	210	\$ 15.88	4-25-0106	211	\$ 29.43
4-20-0101	206	\$ 1.66	4-25-0071	211	\$ 21.70	4-25-0108	211	\$ 109.41
4-20-0102	206	\$ 2.93	4-25-0072	211	\$ 28.72	4-25-0109	212	\$ 30.86
4-20-0103	206	\$ 3.10	4-25-0073	211	\$ 32.31	4-25-0110	211	\$ 68.83
4-20-0104	206	\$ 4.76	4-25-0074	211	\$ 46.78	4-25-0111	211	\$ 100.50
4-20-0105	206	\$ 5.75	4-25-0075	212	\$ 30.86	4-25-0112	207	\$ 7.40
4-20-0106	206	\$ 3.59	4-25-0076	212	\$ 31.13	4-25-0113	212	\$ 31.13
4-20-0107	205	\$ 5.70	4-25-0077	212	\$ 31.13	4-25-0114	207	\$ 13.36
4-20-0108	206	\$ 4.92	4-25-0078	212	\$ 28.71	4-25-0115	210	\$ 14.45
4-20-0110	205	\$ 12.72	4-25-0079	212	\$ 42.86	4-25-0116	209	\$ 31.86
4-20-0111	205	\$ 9.51	4-25-0080	209	\$ 39.86	4-25-0120	210	\$ 19.87
4-20-0112	204	\$ 14.32	4-25-0080A	209	\$ 46.66	4-25-0121	210	\$ 23.87
420030	73	\$ 18.50	4-25-0080C	209	\$ 44.95	4-25-0130	207	\$ 16.31

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4-25-0132	207	\$ 19.38	4-40-0025	217	\$ 1.47	4-40-0070	222	\$ 33.10
4-25-0140	213	\$ 16.31	4-40-0026	217	\$ 24.10	4-40-0071	222	\$ 8.77
4-25-0141	213	\$ 14.66	4-40-0026A	217	\$ 24.05	4-40-0072	222	\$ 3.26
4-25-0142	213	\$ 13.40	4-40-0027	217	\$ 6.97	4-40-0073	222	\$ 6.90
4-25-0200	114	\$ 11.07	4-40-0028	217	\$ 3.74	4-40-0074	222	\$ 17.09
4-30-0001	149	\$ 16.55	4-40-0029	217	\$ 3.74	4-40-0075	223	\$ 2.88
4-30-0002	149	\$ 19.19	4-40-0030	217	\$ 7.74	4-40-0076	223	\$ 6.08
4-30-0007	149	\$ 9.49	4-40-0032	217	\$ 1.53	4-40-0077	223	\$ 5.75
4-30-0010	149	\$ 14.61	4-40-0033	219	\$ 15.76	4-40-0079	223	\$ 0.66
4-30-0011	150	\$ 9.47	4-40-0034	217	\$ 14.27	4-40-0080	223	\$ 9.54
4-30-0012	149	\$ 16.81	4-40-0035	215	\$ 9.50	4-40-0081	223	\$ 9.54
4-30-0015	149	\$ 9.25	4-40-0035BR	215	\$ 8.46	4-40-0082	223	\$ 9.54
4-30-0020	149	\$ 3.90	4-40-0036	215	\$ 3.74	4-40-0083	223	\$ 11.06
4-30-0027	150	\$ 13.63	4-40-0037	215	\$ 3.74	4-40-0084	223	\$ 11.06
430010	191	\$ 129.19	4-40-0038	215	\$ 7.74	4-40-0085	223	\$ 0.66
430021	191	\$ 28.68	4-40-0038BR	215	\$ 8.27	4-40-0086	224	\$ 13.09
430065	190	\$ 39.90	4-40-0039	215	\$ 10.04	4-40-0087	224	\$ 33.13
430070	190	\$ 42.46	4-40-0040	215	\$ 1.92	4-40-0088	224	\$ 32.47
430080	190	\$ 42.46	4-40-0041	215	\$ 30.08	4-40-0089	224	\$ 35.49
4-30-5001	149	\$ 14.06	4-40-0042	218	\$ 6.39	4-40-0090	224	\$ 13.09
4-30-7001	151	\$ 29.17	4-40-0042B	218	\$ 6.33	4-40-0091	224	\$ 33.13
4-40-0001	215	\$ 19.49	4-40-0043	218	\$ 41.82	4-40-0092	224	\$ 33.13
4-40-0002	215	\$ 28.65	4-40-0044	218	\$ 41.96	4-40-0093	224	\$ 32.47
4-40-0003	215	\$ 1.53	4-40-0045	218	\$ 33.36	4-40-0094	224	\$ 13.38
4-40-0004	215	\$ 17.28	4-40-0047	218	\$ 13.40	4-40-0095	224	\$ 33.79
4-40-0005	215	\$ 12.41	4-40-0048	218	\$ 0.22	4-40-0096	224	\$ 33.79
4-40-0006	215	\$ 19.41	4-40-0049	220	\$ 22.46	4-40-0097	224	\$ 36.91
4-40-0007	215	\$ 34.48	4-40-0050	220	\$ 28.65	4-40-0098	225	\$ 14.71
4-40-0008	230	\$ 7.05	4-40-0051	220	\$ 14.55	4-40-0099	225	\$ 14.71
4-40-0009	215	\$ 39.86	4-40-0052	220	\$ 30.68	4-40-0100	225	\$ 14.71
4-40-0011	218	\$ 24.81	4-40-0053	220	\$ 59.51	4-40-0101	225	\$ 0.66
4-40-0012	219	\$ 11.83	4-40-0056	221	\$ 16.55	4-40-0102	225	\$ 7.02
4-40-0013	218	\$ 23.28	4-40-0057	221	\$ 14.29	4-40-0103	228	\$ 18.76
4-40-0014	219	\$ 16.41	4-40-0059	221	\$ 4.53	4-40-0104	228	\$ 18.76
4-40-0015	218	\$ 13.50	4-40-0060	221	\$ 4.53	4-40-0105	228	\$ 24.15
4-40-0016	218	\$ 7.02	4-40-0061	221	\$ 0.93	4-40-0106	228	\$ 24.62
4-40-0017	218	\$ 2.31	4-40-0062	221	\$ 0.93	4-40-0107	228	\$ 30.52
4-40-0018	218	\$ 5.75	4-40-0063	221	\$ 11.04	4-40-0108	228	\$ 30.52
4-40-0019	218	\$ 1.53	4-40-0064	221	\$ 11.48	4-40-0109	228	\$ 30.52
4-40-0020	218	\$ 4.56	4-40-0065	221	\$ 11.04	4-40-0110	228	\$ 29.91
4-40-0021	218	\$ 7.67	4-40-0066	221	\$ 20.53	4-40-0111	221	\$ 9.79
4-40-0022	217	\$ 13.62	4-40-0067	221	\$ 9.21	4-40-0112	228	\$ 10.58
4-40-0024	217	\$ 8.28	4-40-0069	222	\$ 33.10	4-40-0113	228	\$ 3.29



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4-40-0114	227	\$ 15.97	4-40-0175	215	\$ 201.48	4-40-0277	226	\$ 10.67
4-40-0115	227	\$ 18.81	4-40-0184	222	\$ 44.12	4-40-0278	257	\$ 5.10
4-40-0116	227	\$ 18.81	4-40-0189	220	\$ 197.22	4-40-0281	226	\$ 18.81
4-40-0117	227	\$ 18.81	4-40-0191	228	\$ 30.58	4-40-0282	214	\$ 10.68
4-40-0118	227	\$ 21.64	4-40-0191G	228	\$ 30.58	4-40-0283	214	\$ 10.68
4-40-0118G	227	\$ 21.64	4-40-0195	221	\$ 30.78	4-40-0284	226	\$ 15.97
4-40-0119	227	\$ 21.22	4-40-0200	220	\$ 67.42	4-40-0285	260	\$ 11.29
4-40-0120	227	\$ 10.01	4-40-0201	225	\$ 14.23	4-40-0286	217	\$ 19.52
4-40-0121	227	\$ 10.12	4-40-0202	225	\$ 17.10	4-40-0290	223	\$ 6.35
4-40-0122	227	\$ 1.19	4-40-0210	227	\$ 14.27	4-40-1502	220	\$ 64.67
4-40-0123	230	\$ 46.68	4-40-0211	227	\$ 18.81	4-40-1503	220	\$ 65.38
4-40-0124	230	\$ 238.26	4-40-0212	226	\$ 11.43	4-40-1504	218	\$ 31.56
4-40-0125	230	\$ 297.76	4-40-0218	220	\$ 17.23	4-40-1505	218	\$ 31.57
4-40-0126	205	\$ 8.90	4-40-0222	230	\$ 140.99	4-40-1506	217	\$ 32.50
4-40-0132	228	\$ 35.06	4-40-0232	230	\$ 54.65	4-40-1508	215	\$ 41.83
4-40-0133	227	\$ 27.50	4-40-0237	229	\$ 7.99	4-40-1509	215	\$ 36.42
4-40-0134	227	\$ 18.43	4-40-0238	229	\$ 0.91	4-40-1510	217	\$ 32.61
4-40-0141	225	\$ 31.24	4-40-0239	229	\$ 5.02	4-40-1511	217	\$ 40.62
4-40-0142	225	\$ 13.38	4-40-0240	227	\$ 9.50	4-40-1512	218	\$ 23.11
4-40-0143	223	\$ 9.54	4-40-0241	227	\$ 0.70	4-40-1513	218	\$ 18.51
4-40-0145	228	\$ 29.91	4-40-0242	229	\$ 8.56	4-40-1514	260	\$ 53.59
4-40-0146	224	\$ 30.15	4-40-0243	226	\$ 1.13	4-40-1515	218	\$ 7.74
4-40-0150	216	\$ 28.72	4-40-0244	226	\$ 0.70	4-40-1517	218	\$ 8.57
4-40-0151	216	\$ 23.28	4-40-0245	229	\$ 9.50	440800	156	\$ 32.08
4-40-0152	216	\$ 23.28	4-40-0246	229	\$ 0.97	450000	140	\$ 54.32
4-40-0153	216	\$ 10.87	4-40-0247	228	\$ 18.76	450080D	56	\$ 312.00
4-40-0154	216	\$ 29.43	4-40-0248	230	\$ 24.87	485030	118	\$ 66.12
4-40-0155	216	\$ 57.65	4-40-0249	230	\$ 15.27	5-00-0002	167	\$ 62.38
4-40-0156	216	\$ 36.42	4-40-0250	228	\$ 43.19	5-00-0003	167	\$ 57.82
4-40-0157	216	\$ 0.61	4-40-0251	225	\$ 0.83	5-00-0004	167	\$ 84.05
4-40-0158	216	\$ 172.12	4-40-0252	224	\$ 33.79	5-00-0009	167	\$ 39.96
4-40-0159	216	\$ 172.12	4-40-0256	220	\$ 50.87	5-00-0010	167	\$ 27.69
4-40-0161	216	\$ 23.28	4-40-0257	220	\$ 21.63	5-00-0011	168	\$ 19.98
4-40-0162	216	\$ 10.87	4-40-0258	226	\$ 1.34	5-00-0014	167	\$ 52.45
4-40-0163	216	\$ 31.85	4-40-0259	225	\$ 17.10	5-00-0015	64	\$ 36.81
4-40-0164	216	\$ 29.43	4-40-0260	214	\$ 13.94	5-00-0021	167	\$ 63.02
4-40-0165	216	\$ 57.28	4-40-0261	214	\$ 17.60	5-00-0023	64	\$ 8.60
4-40-0166	216	\$ 44.09	4-40-0262	214	\$ 21.75	5-00-0031	167	\$ 18.80
4-40-0167	216	\$ 195.34	4-40-0263	214	\$ 26.86	5-00-0033	168	\$ 23.61
4-40-0168	218	\$ 33.21	4-40-0264	214	\$ 26.86	5-00-0034	167	\$ 23.46
4-40-0169	218	\$ 33.21	4-40-0265	214	\$ 6.00	5-00-0039	167	\$ 8.41
4-40-0171	217	\$ 204.65	4-40-0273	217	\$ 13.30	5-00-0040	168	\$ 149.59
4-40-0172	217	\$ 6.70	4-40-0274	226	\$ 17.55	5-00-0042	168	\$ 69.86

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5-00-0043	168	\$ 91.12	5-20-0007	153	\$ 123.87	5-30-0092	194	\$ 24.35
5-00-0044	168	\$ 20.64	5-20-0008	155	\$ 31.54	5-30-0093	195	\$ 8.52
5-00-0046	168	\$ 122.58	5-20-0009	153	\$ 98.19	5-30-0094	195	\$ 146.07
5-00-0048	168	\$ 141.08	5-20-0010	155	\$ 55.61	5-30-0095	195	\$ 4.87
5-00-0049	167	\$ 20.40	5-20-0011	153	\$ 102.60	5-30-0096	195	\$ 4.87
5-00-0051	167	\$ 29.75	5-20-0013	155	\$ 42.03	5-30-6001	193	\$ 13.82
5-00-0053	167	\$ 14.62	5-20-0014	155	\$ 44.80	5-30-6002	193	\$ 29.90
5-00-0062	168	\$ 14.90	5-20-0016	156	\$ 49.36	5-30-6003	193	\$ 12.60
5-00-0063	167	\$ 3.53	5-20-0017	156	\$ 30.06	5-30-6005	193	\$ 24.45
5-00-0064	168	\$ 21.32	5-20-0018	156	\$ 24.45	5-30-6006	193	\$ 201.96
5-00-0065	168	\$ 14.81	5-20-7001	155	\$ 31.54	5-30-6007	193	\$ 201.96
5-00-0066	168	\$ 24.53	5-20-7002	155	\$ 29.95	5-30-7000	73	\$ 29.85
5-00-0067	168	\$ 20.94	522000	154	\$ 2.61	5-30-7001	73	\$ 164.96
5-00-0076	168	\$ 54.47	522001	154	\$ 2.65	5-30-7002	73	\$ 158.24
5-00-0078	167	\$ 64.36	522005	154	\$ 3.53	5-30-7003	73	\$ 43.01
5-00-0079	168	\$ 118.32	5-30-0001	194	\$ 56.00	5-30-7005	193	\$ 271.86
5-00-0080	168	\$ 14.10	5-30-0001A	194	\$ 57.52	5-30-7005A	193	\$ 138.85
5-00-0081	168	\$ 141.08	5-30-0003	194	\$ 17.04	5-30-7009	73	\$ 141.55
5-00-0083	167	\$ 6.77	5-30-0004	195	\$ 8.85	5-30-7010	73	\$ 149.92
5-00-0085	167	\$ 3.01	5-30-0004K	195	\$ 8.25	5-30-7020	180	\$ 105.40
5-00-5003	168	\$ 151.09	5-30-0005	195	\$ 3.89	5-30-7021	180	\$ 126.93
5-10-0001	178	\$ 45.17	5-30-0006	195	\$ 3.89	5-40-0001	166	\$ 9.20
5-10-0005	186	\$ 23.91	5-30-0008	196	\$ 19.48	5-40-0002	166	\$ 9.24
5-10-0006	186	\$ 23.91	5-30-0009	196	\$ 14.96	5-40-0003	166	\$ 7.69
5-10-0007	185	\$ 3.50	5-30-0010	74	\$ 70.70	5-40-0004	166	\$ 12.36
5-10-0008	185	\$ 4.02	5-30-0019	194	\$ 1.22	5-40-0005	166	\$ 13.76
5-10-0009	178	\$ 95.48	5-30-0020	64	\$ 8.93	5-40-0006	166	\$ 7.83
5-10-0011	185	\$ 8.10	5-30-0022	196	\$ 8.03	5-40-0008	166	\$ 14.51
5-10-0018	185	\$ 4.02	5-30-0030	188	\$ 28.86	5-40-0009	166	\$ 5.31
5-10-0023	178	\$ 27.74	5-30-0033	194	\$ 76.68	5-40-0010	166	\$ 3.79
5-10-0025	178	\$ 71.14	5-30-0040	195	\$ 138.98	5-40-0011	166	\$ 8.87
5-10-0026	178	\$ 124.91	5-30-0041	73	\$ 46.35	5-40-0013	166	\$ 4.69
5-10-0027	178	\$ 89.83	5-30-0043	84	\$ 5.22	5-40-5000	166	\$ 6.62
5-10-0028	178	\$ 114.78	5-30-0044	196	\$ 24.77	5-40-5004K	166	\$ 5.64
5-10-0032	178	\$ 85.03	5-30-0045	195	\$ 78.12	5-40-6001	61	\$ 24.69
5-10-5001	186	\$ 23.46	5-30-0052	73	\$ 46.31	5-50-0002	182	\$ 3.99
5-20-0001B	152	\$ 117.76	5-30-0053	73	\$ 49.22	5-50-0006	182	\$ 4.26
5-20-0001C	152	\$ 108.16	5-30-0056	73	\$ 47.76	5-50-0008	182	\$ 4.74
5-20-0002	152	\$ 94.13	5-30-0060	73	\$ 47.04	5-50-0011	182	\$ 7.16
5-20-0003	152	\$ 136.33	5-30-0061	73	\$ 84.12	5-50-0012	182	\$ 6.41
5-20-0004	156	\$ 27.50	5-30-0062	73	\$ 47.04	5-50-0015	85	\$ 156.71
5-20-0005	156	\$ 27.50	5-30-0073	194	\$ 2.16	5-50-0016	85	\$ 42.70
5-20-0006	155	\$ 31.31	5-30-0090	194	\$ 4.24	5-50-0020	181	\$ 9.14



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5-50-0022	182	\$ 8.85	5-50-0208	179	\$ 13.51	5-60-0401	283	\$ 5.68
5-50-0023	182	\$ 8.85	5-50-0211	179	\$ 25.16	5-60-0402	283	\$ 4.78
5-50-0024	182	\$ 8.85	5-50-0220	179	\$ 25.50	5-60-0403	283	\$ 5.70
5-50-0025	188	\$ 8.60	5-50-5005	179	\$ 11.35	5-60-0404	283	\$ 5.70
5-50-0026A	188	\$ 10.88	5-50-5006	179	\$ 7.98	5-60-0406	283	\$ 7.41
5-50-0028	182	\$ 13.49	5-50-6002	153	\$ 9.08	5-60-0407	283	\$ 7.41
5-50-0031	182	\$ 17.06	5-50-6004	153	\$ 9.36	5-60-0408	283	\$ 7.41
5-50-0042	183	\$ 3.99	5-50-6006	153	\$ 8.98	5-60-0409	283	\$ 7.41
5-50-0043	183	\$ 4.12	5-50-6007	146	\$ 9.45	5-60-0410	283	\$ 5.85
5-50-0044	183	\$ 3.53	5-50-6008	146	\$ 5.73	5-60-0411	283	\$ 7.41
5-50-0045	183	\$ 4.12	5-50-6010	153	\$ 8.98	5-60-0412	283	\$ 5.68
5-50-0046	183	\$ 4.61	5-50-6011	153	\$ 4.94	5-60-0413	283	\$ 5.68
5-50-0047	183	\$ 4.61	5-50-6012	146	\$ 7.35	5-60-0415	283	\$ 4.78
5-50-0048	183	\$ 13.71	5-50-6013	153	\$ 11.98	5-60-0416	283	\$ 13.69
5-50-0049	183	\$ 5.73	5-50-6014	153	\$ 16.35	5-60-0417	283	\$ 5.70
5-50-0052	180	\$ 6.90	5-60-0001	64	\$ 14.86	5-60-0418	283	\$ 5.70
5-50-0053	180	\$ 6.90	5-60-0002	64	\$ 7.34	5-60-0419	283	\$ 6.52
5-50-0054	183	\$ 7.42	5-60-0007	186	\$ 6.95	5-60-0420	283	\$ 6.52
5-50-0055	188	\$ 6.69	5-60-0061	181	\$ 0.45	5-60-0421	283	\$ 8.35
5-50-0056	180	\$ 12.67	5-60-0084	184	\$ 3.79	5-60-0422	283	\$ 6.81
5-50-0057	180	\$ 12.24	5-60-0089	168	\$ 5.93	5-60-0423	283	\$ 10.45
5-50-0058	180	\$ 10.20	5-60-0105	184	\$ 2.16	5-60-0425	283	\$ 11.39
5-50-0059	183	\$ 18.57	5-60-0108	184	\$ 3.83	5-60-0426	283	\$ 9.37
5-50-0061	179	\$ 39.24	5-60-0135	64	\$ 15.61	5-60-0427	283	\$ 18.16
5-50-0062	179	\$ 7.65	5-60-0139	184	\$ 3.01	5-60-0450K	282	\$ 5.73
5-50-0063	179	\$ 3.70	5-60-0149	184	\$ 1.83	5-60-0451K	282	\$ 5.73
5-50-0064	188	\$ 7.34	5-60-0150	184	\$ 5.18	5-60-0452K	282	\$ 5.73
5-50-0065	179	\$ 8.67	5-60-0163	184	\$ 1.68	5-60-0453K	282	\$ 6.51
5-50-0066	179	\$ 9.10	5-60-0168	186	\$ 8.28	5-60-1066	58	\$ 25.86
5-50-0067	179	\$ 9.10	5-60-0191	184	\$ 3.93	5-60-1067	58	\$ 21.37
5-50-0070	41	\$ 22.45	5-60-0200	186	\$ 6.95	5-60-1069	58	\$ 21.54
5-50-0075	183	\$ 8.25	5-60-0225	64	\$ 14.45	5-60-1077	58	\$ 1,102.49
5-50-0076	183	\$ 6.80	5-60-0238	184	\$ 3.70	5-60-1120	143	\$ 33.66
5-50-0077	183	\$ 11.42	5-60-0239	186	\$ 7.91	5-60-1122	143	\$ 22.57
5-50-0080	179	\$ 7.87	5-60-0242	186	\$ 9.35	5-60-1123	143	\$ 35.56
5-50-0087	179	\$ 33.13	5-60-0250	184	\$ 3.54	5-60-1129	147	\$ 70.82
5-50-0136	179	\$ 10.10	5-60-0257	186	\$ 11.20	5-60-1134	143	\$ 34.31
5-50-0174	179	\$ 5.31	5-60-0260	184	\$ 7.71	5-60-1142	143	\$ 35.50
5-50-0175	179	\$ 10.18	5-60-0301	184	\$ 0.83	5-60-1143	143	\$ 23.04
5-50-0179	179	\$ 20.84	5-60-0303	184	\$ 0.83	5-60-1161	143	\$ 10.63
5-50-0198	179	\$ 12.75	5-60-0308	184	\$ 1.16	5-60-1162	143	\$ 10.72
5-50-0206	179	\$ 9.68	5-60-0345	184	\$ 4.32	5-60-1163	143	\$ 30.04
5-50-0207	179	\$ 9.24	5-60-0400	283	\$ 5.68	5-60-1166	143	\$ 27.64

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5-60-1170	143	\$ 25.29	5-60-7072	184	\$ 9.58	5-60-9061	287	\$ 8.79
5-60-5005	143	\$ 21.29	5-60-7264	145	\$ 27.68	5-60-9062	287	\$ 8.79
5-60-5037	168	\$ 7.60	5-60-7265	145	\$ 27.68	5-60-9063	287	\$ 8.79
5-60-6000	145	\$ 27.68	5-60-7266	180	\$ 47.91	5-60-9065	287	\$ 8.79
5-60-6001	145	\$ 37.56	5-60-8001	146	\$ 76.41	5-60-9066	287	\$ 10.98
5-60-6002	145	\$ 37.56	5-60-8002	146	\$ 57.04	5-60-9067	287	\$ 10.98
5-60-6003	145	\$ 45.00	5-60-8003	146	\$ 142.73	5-60-9068	287	\$ 11.82
5-60-6004	145	\$ 45.00	5-60-8004	146	\$ 122.63	5-60-9069	287	\$ 12.50
5-60-6005	145	\$ 30.74	5-60-8005	146	\$ 44.21	5-60-9070	287	\$ 14.53
5-60-6006	145	\$ 32.25	5-60-8006	146	\$ 73.53	5-60-9072	288	\$ 22.66
5-60-6010	145	\$ 58.43	5-60-8007	146	\$ 57.04	5-60-9073	288	\$ 30.29
5-60-6011	145	\$ 58.43	5-60-8008	146	\$ 44.21	5-60-9074	288	\$ 76.08
5-60-6012	145	\$ 46.45	5-60-8009	146	\$ 8.34	5-60-9080	285	\$ 83.67
5-60-6013	61	\$ 18.24	5-60-8012	148	\$ 32.42	5-60-9081	285	\$ 13.03
5-60-6014	61	\$ 2.53	5-60-9003	58	\$ 8.13	5-60-9082	285	\$ 15.67
5-60-6015	145	\$ 103.56	5-60-9005	181	\$ 47.12	5-60-9083	285	\$ 10.53
5-60-6016	145	\$ 79.78	5-60-9006	217	\$ 14.25	5-60-9084	285	\$ 12.14
5-60-6017	145	\$ 102.56	5-60-9007	212	\$ 177.78	5-60-9085	285	\$ 13.58
5-60-6018	145	\$ 104.74	5-60-9009	284	\$ 6.80	5-60-9090	284	\$ 83.01
5-60-6019	145	\$ 50.27	5-60-9011	223	\$ 4.73	5-60-9092	284	\$ 69.76
5-60-6020	145	\$ 60.20	5-60-9015	280	\$ 248.78	5-60-9093	284	\$ 75.49
5-60-6021	145	\$ 37.28	5-60-9016	280	\$ 223.89	5-60-9094	284	\$ 107.04
5-60-6023	31	\$ 38.37	5-60-9018	282	\$ 37.22	5-60-9095	284	\$ 122.67
5-60-6024	32	\$ 254.97	5-60-9019	282	\$ 351.02	5-60-9096	284	\$ 65.72
5-60-6026	142	\$ 44.00	5-60-9020	280	\$ 22.29	5-60-9099	284	\$ 356.11
5-60-6027	180	\$ 39.92	5-60-9021	280	\$ 57.13	5-60-9101	285	\$ 58.72
5-60-6029	180	\$ 6.53	5-60-9023	280	\$ 131.66	5-60-9102	285	\$ 101.45
5-60-6031	180	\$ 25.69	5-60-9024	280	\$ 43.82	5-60-9103	285	\$ 336.51
5-60-6033	180	\$ 32.33	5-60-9025	281	\$ 329.30	5-60-9104	285	\$ 17.08
5-60-6034	180	\$ 32.33	5-60-9026	280	\$ 30.64	5-60-9105	285	\$ 48.08
5-60-6035	180	\$ 11.45	5-60-9029	280	\$ 87.59	5-60-9106	285	\$ 158.12
5-60-6036	180	\$ 32.33	5-60-9034	283	\$ 18.28	5-60-9107	286	\$ 64.24
5-60-6037	180	\$ 11.45	5-60-9036	280	\$ 43.74	5-60-9115	286	\$ 40.39
5-60-6038	181	\$ 2.60	5-60-9037	280	\$ 148.97	5-60-9116	286	\$ 76.07
5-60-6039	181	\$ 2.60	5-60-9038	280	\$ 50.02	5-60-9117	286	\$ 83.84
5-60-6040	181	\$ 2.60	5-60-9040	55	\$ 6.87	5-60-9118	286	\$ 94.66
5-60-6041	180	\$ 2.60	5-60-9042	287	\$ 46.99	5-60-9119	286	\$ 37.03
5-60-7066	184	\$ 1.03	5-60-9045	55	\$ 24.45	5-60-9120	286	\$ 40.39
5-60-7067	184	\$ 1.65	5-60-9046	285	\$ 158.91	5-60-9121	287	\$ 6.42
5-60-7068	184	\$ 1.01	5-60-9048	286	\$ 40.33	5-60-9122	287	\$ 6.42
5-60-7069	184	\$ 0.40	5-60-9050	286	\$ 37.19	5-60-9123	287	\$ 6.42
5-60-7070	184	\$ 0.48	5-60-9053	286	\$ 18.86	5-60-9124	287	\$ 6.42
5-60-7071	184	\$ 9.73	5-60-9058	287	\$ 245.35	5-60-9125	287	\$ 18.56



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5-60-9126	287	\$ 18.56	6-05-0039	188	\$ 190.92	800134-3	154	\$ 22.76
5-60-9127	287	\$ 18.56	6-05-0040	188	\$ 2.64	800140-0	154	\$ 30.42
5-60-9128	287	\$ 19.09	6-05-0043	188	\$ 3.49	800140-3	154	\$ 18.42
5-60-9129	287	\$ 19.75	6-05-0045	188	\$ 171.16	800220-0	154	\$ 30.42
5-60-9135	286	\$ 50.94	6-05-0047	120	\$ 4.16	800220-3	154	\$ 18.52
5-60-9136	285	\$ 12.97	6-05-0048	188	\$ 2.75	800240-0	154	\$ 30.42
5-60-9137	285	\$ 12.97	6-05-0049	188	\$ 2.14	800240-3	154	\$ 18.42
5-60-9138	285	\$ 12.97	6-05-0050	189	\$ 1,017.06	800315-3	154	\$ 18.25
5-60-9141	282	\$ 236.04	6-05-0051	189	\$ 1,121.24	800320-3	154	\$ 18.25
5-60-9142	282	\$ 306.08	6-05-0055	189	\$ 139.86	8-05-0008	114	\$ 6.41
5-60-9152	284	\$ 254.46	6-05-0056	189	\$ 139.86	8-05-0009	114	\$ 10.09
5-60-9153	284	\$ 278.72	6-05-0057	189	\$ 152.29	8-05-0010	203	\$ 1.27
5-60-9154	284	\$ 51.37	6-05-0058	189	\$ 174.05	8-05-0011	203	\$ 1.61
5-60-9155	284	\$ 28.15	6-05-0059	189	\$ 174.05	8-05-0012	203	\$ 0.50
5-60-9156	284	\$ 24.99	6-05-0060	189	\$ 163.95	8-05-0013	203	\$ 0.72
5-60-9157	284	\$ 91.79	6-05-0060K	189	\$ 143.26	8-05-0014	203	\$ 1.05
5-60-9200	281	\$ 650.87	6-05-0061	189	\$ 100.49	8-05-0015	203	\$ 1.88
5-60-9250	281	\$ 488.78	6-05-0061K	189	\$ 87.55	8-05-0017	116	\$ 55.09
5-60-9275	281	\$ 724.56	6-05-0064	189	\$ 603.68	8-05-0020	288	\$ 17.19
6-00-0006MJ	187	\$ 135.85	6-05-0068	189	\$ 195.64	810000-0	42	\$ 149.76
6-00-0006S	187	\$ 141.05	6-05-0069	189	\$ 12.40	810006-0	42	\$ 212.50
6-00-0009	187	\$ 194.35	6-05-0071	189	\$ 133.64	810100-0	42	\$ 127.89
6-00-0009A	187	\$ 151.32	6-05-0073	189	\$ 133.64	810106-0	42	\$ 188.41
60-0001	138	\$ 1.70	6-05-0074	187	\$ 139.86	810108-0	42	\$ 242.45
6-00-0020A	187	\$ 134.19	6-05-0076	187	\$ 139.86	810400-0	48	\$ 138.21
60-0002K	117	\$ 8.69	6-05-0077	189	\$ 506.05	82580D-0	56	\$ 375.16
6-00-0036	189	\$ 137.21	6-05-0080	189	\$ 142.97	850401-0	169	\$ 14.93
6-05-0003	188	\$ 3.22	6-05-0082	189	\$ 142.97	850402-0	169	\$ 16.33
6-05-0004	188	\$ 4.90	70-20-1109A	188	\$ 48.38	850404-0	169	\$ 16.33
6-05-0005	188	\$ 0.79	70-20-1109B	188	\$ 38.36	850407-0	169	\$ 16.33
6-05-0006	188	\$ 3.12	7-30-7064	31	\$ 37.73	860010-0	157	\$ 20.13
6-05-0008	188	\$ 1.43	730945-0	47	\$ 19.24	860010-3	157	\$ 16.69
6-05-0010	188	\$ 151.75	733120-0	143	\$ 37.48	860016-0	157	\$ 16.01
6-05-0011	227	\$ 6.38	790250-0	53	\$ 2.02	860016-3	157	\$ 15.75
6-05-0013	188	\$ 6.56	800120-0	154	\$ 30.43	860016-5	157	\$ 16.58
6-05-0014	188	\$ 13.59	800120-3	154	\$ 18.42	900022-001	42	\$ 191.22
6-05-0015	188	\$ 77.05	800122-0	154	\$ 29.22	90-220142	117	\$ 334.00
6-05-0025	188	\$ 0.42	800122-3	154	\$ 23.38	90-220143	117	\$ 327.56
6-05-0030	188	\$ 58.18	800123-3	154	\$ 23.38	90-221003	117	\$ 266.10
6-05-0031	188	\$ 58.18	800125-0	154	\$ 20.96	90-221111	117	\$ 320.12
6-05-0032	188	\$ 0.53	800125-3	154	\$ 18.42	90-221301	117	\$ 333.52
6-05-0037	188	\$ 63.97	800130-3	154	\$ 19.95	910100-007	42	\$ 184.00
6-05-0037C	188	\$ 5.47	800132-3	154	\$ 21.07	910105-001	42	\$ 235.67

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910106-007	42	\$ 239.12	922005-001	43	\$ 121.05	936540-001	47	\$ 240.65
910108-007	42	\$ 344.93	922990-001	43	\$ 414.58	936550-003	47	\$ 247.20
910500-001	49	\$ 36.00	922992-001	43	\$ 451.75	950401-000	169	\$ 22.08
910530-001	49	\$ 108.95	922994-001	43	\$ 452.54	950402-000	169	\$ 25.05
910535-001	49	\$ 108.95	923055-007	43	\$ 228.57	950404-000	169	\$ 25.05
910630-001	49	\$ 111.00	923065-007	43	\$ 298.65	950407-000	169	\$ 25.05
910635-001	49	\$ 111.00	923070-007	43	\$ 299.66	950410-000	169	\$ 22.08
910800-001	48	\$ 40.46	923100-001	43	\$ 37.01	950415-000	169	\$ 25.05
910820-001	48	\$ 81.58	923120-004	50	\$ 23.49	951001-000	169	\$ 19.62
910822-001	48	\$ 83.27	923305-001	43	\$ 173.76	951002-000	169	\$ 21.83
910825-001	48	\$ 83.28	924350-001	47	\$ 157.26	951007-000	169	\$ 21.83
910826-001	50	\$ 108.36	924452-001	47	\$ 177.69	951020-000	169	\$ 21.83
910827-000	50	\$ 33.65	930113-101	75	\$ 3.81	951021-000	169	\$ 21.83
910828-001	50	\$ 108.36	930222-201	76	\$ 8.30	951025-000	169	\$ 21.83
910829-001	50	\$ 47.58	930243-401	76	\$ 8.48	951026-000	169	\$ 21.83
910900-003	48	\$ 157.60	930244-401	76	\$ 8.48	951036-000	169	\$ 21.83
911910-000	54	\$ 933.35	930626-516	76	\$ 180.65	951040-000	169	\$ 19.62
911935-000	54	\$ 1,305.01	930630-516	76	\$ 182.07	951047-000	169	\$ 19.61
911950-000	54	\$ 1,403.17	930726-516	76	\$ 182.07	951522-000	171	\$ 6.92
911965-000	54	\$ 1,569.04	930736-516	76	\$ 193.78	951523-000	171	\$ 8.70
911975-000	54	\$ 1,735.01	930740-516	76	\$ 208.68	951590-000	170	\$ 10.00
911990-000	54	\$ 2,002.51	930746-516	76	\$ 193.78	951590-003	170	\$ 9.62
921030-001	53	\$ 556.86	930750-516	76	\$ 208.68	951590-601	171	\$ 13.93
921100-001	51	\$ 1,402.05	930836-516	76	\$ 193.78	951590-602	171	\$ 15.51
921107-001	51	\$ 1,959.24	930840-516	76	\$ 208.68	951590-607	171	\$ 15.51
921120-001	51	\$ 1,639.05	930846-516	76	\$ 193.78	951590-608	171	\$ 15.51
921125-001	51	\$ 1,827.00	930850-516	76	\$ 208.68	951590-625	171	\$ 15.51
921130-001	52	\$ 3,406.60	931213-000	75	\$ 44.01	951590-636	171	\$ 15.51
921135-001	52	\$ 3,624.47	932226-120	75	\$ 271.95	951590-640	171	\$ 15.51
921140-001	52	\$ 3,842.35	932226-240	75	\$ 271.95	951590-730	171	\$ 27.23
921200-020	52	\$ 2,091.83	932229-120	75	\$ 277.47	951590-732	170	\$ 25.80
921200-040	52	\$ 2,425.04	932336-120	75	\$ 281.83	951590-741	171	\$ 47.21
921200-050	52	\$ 2,832.75	932336-240	75	\$ 281.83	951590-742	171	\$ 47.21
921201-000	52	\$ 1,609.67	932338-240	75	\$ 273.72	951590-743	171	\$ 27.74
921203-000	52	\$ 904.09	932339-120	75	\$ 284.45	951590-751	171	\$ 65.06
921205-000	52	\$ 139.55	932446-012	75	\$ 277.59	951590-760	171	\$ 18.08
921210-000	52	\$ 687.87	932446-240	75	\$ 285.97	951590-780	171	\$ 47.21
921210-502	52	\$ 19.81	932449-120	75	\$ 287.77	951590-781	171	\$ 47.21
921210-503	52	\$ 32.25	933100-000	51	\$ 475.06	951590-790	171	\$ 47.20
921305-001	43	\$ 114.99	933150-000	51	\$ 330.24	951590-795	171	\$ 47.21
921450-001	43	\$ 198.57	933200-000	51	\$ 178.90	951590-801	171	\$ 13.93
921805-001	43	\$ 167.70	933300-000	51	\$ 82.12	951590-807	171	\$ 15.51
921810-001	43	\$ 169.69	933400-000	51	\$ 82.12	951601-000	170	\$ 4.09



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951602-000	170	\$ 5.46	951861-000	170	\$ 37.23	SD6000-175	135	\$ 14.29
951607-000	170	\$ 5.46	951880-000	170	\$ 37.23	SD6000-176	133	\$ 15.28
951608-000	170	\$ 5.46	951881-000	170	\$ 37.23	SD6000-180	135	\$ 32.31
951621-000	170	\$ 5.46	951895-000	170	\$ 37.23	SD6000-217	92	\$ 544.83
951625-000	170	\$ 5.46	951905-000	171	\$ 109.13	SD6000-260	241	\$ 7.87
951626-000	170	\$ 5.46	960090-000	48	\$ 55.22	SD6000-266	233	\$ 7.26
951627-000	170	\$ 5.46	960092-000	49	\$ 60.45	SD6000-310	235	\$ 40.11
951628-000	170	\$ 5.46	990100-000	175	\$ 19.05	SD6000-315	235	\$ 46.37
951632-000	170	\$ 5.46	990110-000	56	\$ 21.48	SD6000-338	134	\$ 256.68
951633-000	170	\$ 5.46	990126-516	76	\$ 13.79	SD6000-701	93	\$ 1,103.41
951636-000	170	\$ 5.46	990160-000	143	\$ 71.88	SD6000-702	67	\$ 1,146.59
951638-000	170	\$ 5.46	990165-000	150	\$ 15.05	SD6000-885	251	\$ 55.23
951639-000	170	\$ 5.46	990180-000	150	\$ 8.50	SD6455-003	279	\$ 7.52
951640-000	170	\$ 5.46	990200-000	191	\$ 43.01	SD6455-197	278	\$ 61.50
951641-000	170	\$ 5.46	990300-000	175	\$ 13.54	SD6455-205	278	\$ 81.32
951644-000	170	\$ 5.46	990310-000	175	\$ 11.55	SD6455-401	278	\$ 115.80
951651-000	170	\$ 5.46	990400-000	53	\$ 3.04	SD6455-413	278	\$ 87.33
951725-000B	170	\$ 4.09	990408-003	150	\$ 17.89	SD6455-420	278	\$ 47.92
951730-000	170	\$ 17.41	990448-003	143	\$ 17.89	SD6455-421	278	\$ 106.00
951731-000	170	\$ 17.41	990451-000	151	\$ 4.87	SD6455-422	278	\$ 95.53
951732-000	170	\$ 25.79	990458-000	151	\$ 5.58	SD6455-423	278	\$ 167.57
951741-000	170	\$ 17.41	990500-000	211	\$ 79.98	SD6455-424	278	\$ 173.45
951742-000	170	\$ 37.12	990501-000	211	\$ 67.58	SD6455-445	277	\$ 79.02
951743-000	170	\$ 17.68	990550-000	211	\$ 354.30	SD6455-446	277	\$ 109.82
951745-000	170	\$ 37.12	990555-000	211	\$ 252.03	SD6455-447	277	\$ 148.59
951750-000	170	\$ 88.90	991000-000	175	\$ 289.78	SD6455-448	277	\$ 148.59
951751-000	170	\$ 54.92	991010-000	175	\$ 1.78	SD6455-451	276	\$ 71.81
951760-000	170	\$ 13.00	991020-000	175	\$ 4.94	SD6455-452	276	\$ 58.69
951761-000	170	\$ 13.00	991075-000	175	\$ 15.27	SD6455-465	276	\$ 112.95
951770-000	170	\$ 37.12	991100-000	175	\$ 12.51	SD6455-466	276	\$ 115.11
951780-000	170	\$ 37.12	SD5040-343	240	\$ 21.47	SD6455-467	276	\$ 49.89
951781-000	170	\$ 37.12	SD6000-001	135	\$ 4.55	SD6455-470	276	\$ 29.86
951784-000	170	\$ 37.12	SD6000-002	135	\$ 213.10	SD6455-472	276	\$ 32.61
951790-000	170	\$ 37.12	SD6000-003	244	\$ 22.27	SD6455-480	276	\$ 24.91
951791-000	170	\$ 37.12	SD6000-017	126	\$ 14.36	SD6455-482	276	\$ 26.55
951792-000	170	\$ 37.12	SD6000-021	148	\$ 72.04	SD6455-500	279	\$ 8.25
951793-000	170	\$ 37.12	SD6000-023	74	\$ 84.12	SD6472-010	232	\$ 9.09
951795-000	170	\$ 37.12	SD6000-078	245	\$ 3.17	SD6500-052	134	\$ 164.40
951796-000	170	\$ 37.12	SD6000-093	131	\$ 7.68	SD6500-056	134	\$ 205.03
951797-000	170	\$ 37.11	SD6000-106	133	\$ 99.31	SD6500-057	134	\$ 327.19
951801-000	170	\$ 4.09	SD6000-155	134	\$ 1,050.39	SD6500-063	134	\$ 389.60
951807-000	170	\$ 5.46	SD6000-156	134	\$ 254.04	SD6500-208	134	\$ 76.12
951830-000	170	\$ 17.53	SD6000-162	279	\$ 1.41	SD6500-211	211	\$ 354.01

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SD6500-214	133	\$ 148.39	SD6540-138	244	\$ 7.26	SD6540-310	234	\$ 29.64
SD6500-230	133	\$ 13.60	SD6540-140	244	\$ 32.51	SD6540-317	234	\$ 27.35
SD6500-235	133	\$ 9.10	SD6540-141	244	\$ 30.67	SD6540-319	234	\$ 27.35
SD6500-252	127	\$ 172.42	SD6540-146	232	\$ 5.99	SD6540-320	234	\$ 44.27
SD6500-301	131	\$ 439.48	SD6540-147	244	\$ 28.72	SD6540-322	248	\$ 45.38
SD6500-310	132	\$ 542.38	SD6540-148	232	\$ 7.52	SD6540-327	248	\$ 11.65
SD6500-315	132	\$ 565.30	SD6540-151	244	\$ 25.09	SD6540-330	240	\$ 1.26
SD6500-316	132	\$ 542.38	SD6540-161	244	\$ 32.50	SD6540-331	248	\$ 44.35
SD6500-402	134	\$ 373.41	SD6540-162	244	\$ 32.50	SD6540-332	238	\$ 2.75
SD6500-407	134	\$ 198.62	SD6540-163	244	\$ 25.09	SD6540-333	237	\$ 2.52
SD6500-476	67	\$ 770.64	SD6540-168	232	\$ 7.52	SD6540-334	238	\$ 5.04
SD6500-495	135	\$ 293.82	SD6540-190	133	\$ 11.80	SD6540-335	246	\$ 18.60
SD6500-505	92	\$ 359.41	SD6540-203	244	\$ 25.09	SD6540-336	240	\$ 2.75
SD6500-516	91	\$ 520.96	SD6540-206	246	\$ 118.52	SD6540-338	240	\$ 3.55
SD6500-520	89	\$ 554.73	SD6540-208	233	\$ 17.55	SD6540-341	238	\$ 10.89
SD6500-522	89	\$ 988.48	SD6540-211	241	\$ 21.43	SD6540-342	246	\$ 10.89
SD6500-560	91	\$ 718.85	SD6540-215	245	\$ 21.43	SD6540-343	240	\$ 3.21
SD6500-817	113	\$ 12.31	SD6540-221	244	\$ 30.37	SD6540-344	237	\$ 16.92
SD6530-260	249	\$ 2.94	SD6540-223	249	\$ 5.35	SD6540-346	246	\$ 24.29
SD6530-261	249	\$ 2.94	SD6540-224	249	\$ 7.57	SD6540-347	237	\$ 24.29
SD6530-262	249	\$ 2.94	SD6540-228	148	\$ 0.85	SD6540-362	249	\$ 5.35
SD6540-016	242	\$ 1.26	SD6540-231	242	\$ 13.60	SD6540-363	249	\$ 4.13
SD6540-034	134	\$ 0.88	SD6540-239	244	\$ 15.43	SD6540-372	237	\$ 33.12
SD6540-042	232	\$ 5.54	SD6540-247	245	\$ 16.20	SD6540-395	242	\$ 3.06
SD6540-047	245	\$ 29.22	SD6540-248	245	\$ 21.62	SD6540-397	247	\$ 4.18
SD6540-054	245	\$ 13.33	SD6540-251	245	\$ 18.53	SD6540-483	270	\$ 117.44
SD6540-061	240	\$ 4.47	SD6540-256	237	\$ 2.94	SD6540-487	269	\$ 148.10
SD6540-065	241	\$ 3.97	SD6540-258	237	\$ 15.82	SD6540-488	271	\$ 159.51
SD6540-067	245	\$ 12.99	SD6540-274	240	\$ 6.35	SD6540-501	271	\$ 96.25
SD6540-068	238	\$ 27.96	SD6540-276	240	\$ 3.39	SD6540-502	271	\$ 28.57
SD6540-070	133	\$ 5.99	SD6540-277	243	\$ 39.34	SD6540-503	272	\$ 41.40
SD6540-072	241	\$ 12.34	SD6540-282	279	\$ 0.58	SD6540-509	232	\$ 2.87
SD6540-073	241	\$ 20.86	SD6540-292	247	\$ 8.06	SD6540-511	243	\$ 4.08
SD6540-105	247	\$ 1.61	SD6540-294	247	\$ 7.26	SD6540-520	242	\$ 5.16
SD6540-107	241	\$ 8.44	SD6540-295	248	\$ 128.03	SD6540-522	241	\$ 3.40
SD6540-108	242	\$ 8.44	SD6540-297	239	\$ 6.19	SD6540-524	242	\$ 5.58
SD6540-109	237	\$ 21.73	SD6540-298	239	\$ 4.43	SD6540-525	239	\$ 3.24
SD6540-114	210	\$ 29.83	SD6540-299	234	\$ 14.06	SD6540-527	244	\$ 2.87
SD6540-117	237	\$ 1.49	SD6540-301	234	\$ 14.06	SD6540-572	232	\$ 6.53
SD6540-131	232	\$ 6.53	SD6540-302	242	\$ 22.58	SD6540-587	251	\$ 0.76
SD6540-135	232	\$ 9.63	SD6540-304	232	\$ 10.66	SD6540-588	252	\$ 2.52
SD6540-136	232	\$ 9.90	SD6540-308	241	\$ 17.61	SD6540-601	232	\$ 6.68
SD6540-137	244	\$ 5.16	SD6540-309	240	\$ 7.87	SD6540-604	232	\$ 6.68



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SD6540-607	237	\$ 5.96	SD6540-775	135	\$ 205.38	SD6540-966	249	\$ 57.29
SD6540-608	237	\$ 23.11	SD6540-784	247	\$ 26.55	SD6540-967	249	\$ 18.15
SD6540-610	242	\$ 8.67	SD6540-785	233	\$ 28.50	SD6540-968	249	\$ 5.69
SD6540-611	242	\$ 42.44	SD6540-786	233	\$ 1.34	SD6541-047	245	\$ 31.71
SD6540-641	236	\$ 46.60	SD6540-787	238	\$ 7.41	SD6541-054	245	\$ 13.33
SD6540-642	236	\$ 17.19	SD6540-796	243	\$ 16.96	SD6541-109	237	\$ 20.13
SD6540-643	236	\$ 21.58	SD6540-797	243	\$ 8.71	SD6541-272	240	\$ 1.26
SD6540-644	236	\$ 4.55	SD6540-798	243	\$ 5.16	SD6541-273	240	\$ 2.56
SD6540-646	236	\$ 9.09	SD6540-800	243	\$ 31.32	SD6541-372	237	\$ 35.94
SD6540-647	236	\$ 9.09	SD6540-803	247	\$ 21.01	SD6541-376	249	\$ 3.97
SD6540-649	243	\$ 6.34	SD6540-804	247	\$ 21.01	SD6541-377	249	\$ 5.61
SD6540-650	242	\$ 15.85	SD6540-806	247	\$ 23.11	SD6541-654	242	\$ 46.59
SD6540-655	242	\$ 9.51	SD6540-818	238	\$ 10.43	SD6541-670	247	\$ 1.60
SD6540-656	242	\$ 13.87	SD6540-820	239	\$ 13.60	SD6541-673	247	\$ 5.04
SD6540-657	242	\$ 4.77	SD6540-837	252	\$ 12.60	SD6541-674	247	\$ 20.47
SD6540-658	242	\$ 9.55	SD6540-838	252	\$ 25.21	SD6541-676	247	\$ 5.04
SD6540-659	242	\$ 13.60	SD6540-839	252	\$ 11.34	SD6541-695	232	\$ 16.04
SD6540-666	235	\$ 38.73	SD6540-847	251	\$ 3.40	SD6541-787	238	\$ 11.04
SD6540-667	235	\$ 16.50	SD6540-849	251	\$ 2.75	SD6541-805	242	\$ 6.53
SD6540-668	235	\$ 16.50	SD6540-855	252	\$ 54.39	SD6541-969	249	\$ 8.33
SD6540-670	247	\$ 1.55	SD6540-856	252	\$ 50.42	SD6560-003	135	\$ 8.82
SD6540-673	247	\$ 8.40	SD6540-865	249	\$ 1.92	SD6560-004	135	\$ 16.88
SD6540-674	247	\$ 20.47	SD6540-868	249	\$ 0.65	SD6560-005	133	\$ 9.97
SD6540-676	247	\$ 15.51	SD6540-876	249	\$ 5.35	SD6560-006	133	\$ 10.88
SD6540-678	247	\$ 8.40	SD6540-877	249	\$ 5.05	SD6560-007	133	\$ 37.51
SD6540-682	232	\$ 0.92	SD6540-880	251	\$ 44.57	SD6560-009	133	\$ 15.58
SD6540-685	232	\$ 3.78	SD6540-881	251	\$ 44.57	SD6560-012	131	\$ 18.15
SD6540-689	232	\$ 6.69	SD6540-882	251	\$ 194.80	SD6560-025	127	\$ 446.98
SD6540-692	232	\$ 6.68	SD6540-883	251	\$ 194.80	SD6560-027	132	\$ 6.19
SD6540-694	232	\$ 17.34	SD6540-886	251	\$ 2.52	SD6560-030	132	\$ 13.60
SD6540-697	247	\$ 1.00	SD6540-887	251	\$ 3.17	SD6560-031	132	\$ 6.35
SD6540-699	232	\$ 16.62	SD6540-891	251	\$ 1.26	SD6560-032	132	\$ 16.62
SD6540-731	232	\$ 4.47	SD6540-892	251	\$ 1.03	SD6560-034	132	\$ 8.98
SD6540-744	241	\$ 2.18	SD6540-893	251	\$ 1.80	SD6560-035	132	\$ 6.08
SD6540-747	245	\$ 1.08	SD6540-894	251	\$ 1.15	SD6560-040	132	\$ 131.09
SD6540-754	239	\$ 22.27	SD6540-937	233	\$ 28.84	SD6560-041	132	\$ 21.01
SD6540-755	239	\$ 13.60	SD6540-959	238	\$ 19.52	SD6560-042	132	\$ 15.89
SD6540-756	239	\$ 11.42	SD6540-960	238	\$ 10.43	SD6560-043	132	\$ 30.11
SD6540-757	239	\$ 2.52	SD6540-961	238	\$ 8.25	SD6560-044	132	\$ 1.34
SD6540-758	239	\$ 2.52	SD6540-962	238	\$ 5.46	SD6560-045	132	\$ 17.35
SD6540-759	239	\$ 5.04	SD6540-963	238	\$ 1.91	SD6560-046	132	\$ 49.65
SD6540-771	239	\$ 32.39	SD6540-964	238	\$ 2.29	SD6560-049	132	\$ 28.49
SD6540-773	239	\$ 14.44	SD6540-965	238	\$ 2.41	SD6560-198	133	\$ 4.32

PRICE LIST



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PRICE LIST

ITEM #	PAGE	LIST PRICE	ITEM #	PAGE	LIST PRICE	ITEM #	PAGE	LIST PRICE
SD6560-200	133	\$ 5.54	SD6600-106	147	\$ 84.00	SD6660-002	240	\$ 1.30
SD6560-204	133	\$ 20.24	SD6600-110	147	\$ 67.31	SD6660-053	148	\$ 2.87
SD6560-215	133	\$ 19.98	SD6600-122	147	\$ 90.04	SD6660-055	148	\$ 9.93
SD6560-216	133	\$ 19.98	SD6600-141	148	\$ 10.54	SD6660-060	148	\$ 2.17
SD6560-230	135	\$ 75.02	SD6600-148	91	\$ 968.96	SD6660-165	148	\$ 0.49
SD6560-235	135	\$ 96.04	SD6600-150	91	\$ 991.08	SD6660-200	74	\$ 375.58
SD6560-272	74	\$ 158.90	SD6600-152	91	\$ 1,034.13	SD6660-263	67	\$ 40.10
SD6560-274	74	\$ 76.39	SD6600-155	92	\$ 1,050.39	SD9800-104	252	\$ 218.48
SD6560-278	74	\$ 169.10	SD6600-166	147	\$ 48.17			
SD6560-423	147	\$ 38.20	SD6600-167	147	\$ 56.34			
SD6560-440	135	\$ 21.97	SD6600-168	147	\$ 49.13			
SD6560-659	135	\$ 51.34	SD6600-169	147	\$ 127.00			
SD6560-700	192	\$ 103.55	SD6600-211	91	\$ 749.53			
SD6570-033	241	\$ 0.95	SD6600-493	89	\$ 668.57			
SD6570-073	251	\$ 1.15	SD6600-630	90	\$ 319.07			
SD6570-099	232	\$ 2.29	SD6600-631	90	\$ 319.07			
SD6570-157	245	\$ 0.42	SD6600-693	89	\$ 683.55			
SD6570-231	279	\$ 3.06	SD6600-695	89	\$ 474.94			
SD6570-233	279	\$ 5.16	SD6600-708	89	\$ 655.45			
SD6570-234	279	\$ 3.55	SD6600-710	89	\$ 655.45			
SD6570-248	249	\$ 0.72	SD6600-712	89	\$ 655.45			
SD6570-470	251	\$ 0.76	SD6600-800	89	\$ 763.89			
SD6600-005	32	\$ 259.66	SD6600-803	89	\$ 775.99			
SD6600-013	68	\$ 1,050.39	SD6600-812	91	\$ 729.55			
SD6600-014	68	\$ 1,050.39	SD6600-830	92	\$ 770.95			
SD6600-014R	68	\$ 493.22	SD6600-831	89	\$ 234.91			
SD6600-017	68	\$ 1,050.39	SD6600-832	91	\$ 357.14			
SD6600-017R	68	\$ 707.75	SD6600-833	91	\$ 297.93			
SD6600-018	68	\$ 1,050.39	SD6600-834	91	\$ 357.14			
SD6600-021	68	\$ 1,050.39	SD6600-835	91	\$ 747.08			
SD6600-023	68	\$ 1,050.39	SD6600-837	92	\$ 234.91			
SD6600-028	68	\$ 1,050.39	SD6600-843	91	\$ 38.21			
SD6600-032	67	\$ 734.89	SD6600-844	91	\$ 1,188.13			
SD6600-032R	67	\$ 389.39	SD6600-860	92	\$ 739.97			
SD6600-040	68	\$ 1,115.44	SD6600-861	92	\$ 236.05			
SD6600-051	89	\$ 417.10	SD6600-863	89	\$ 178.76			
SD6600-053	67	\$ 944.21	SD6600-865	90	\$ 689.18			
SD6600-055	67	\$ 944.21	SD6600-866	92	\$ 713.94			
SD6600-056	92	\$ 1,050.39	SD6600-867	92	\$ 234.91			
SD6600-068	147	\$ 45.84	SD6600-872	91	\$ 1,042.46			
SD6600-069	148	\$ 12.22	SD6600-892	89	\$ 757.13			
SD6600-090	134	\$ 42.02	SD6600-893	89	\$ 740.66			
SD6600-092	92	\$ 1,050.39	SD6600-993	89	\$ 353.88			

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