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IS1070BOND RevB

Water Bonding Kit

For Skim Master Series Skimmers

Owner's Manual

	<p>Contents</p> <p>Safety Information.....1</p> <p>Installation.....4</p>
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SP1070BOND

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IMPORTANT SAFETY INSTRUCTIONS



READ AND FOLLOW ALL INSTRUCTIONS

This Owner's Manual contains specific precautions and symbols to identify safety related information as described below. Please read them carefully and follow these precautions as indicated!

⚠ WARNING - Warns about hazards that **could** cause serious personal injury, death, or major property damage and if ignored presents a potential hazard.

⚠ CAUTION - Warns about hazards that **can** or **will** cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.

NOTICE - Indicates special instructions that are important but not related to hazards.

⚠ WARNING - Suction Entrapment Hazard. Suction in suction outlets and/or suction outlet covers which are damaged, broken, cracked, missing, or unsecured can cause sever injury and/or death due to the following entrapment hazards:



Hair Entrapment - Hair can become entangled in suction outlet cover.



Limb Entrapment - A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.



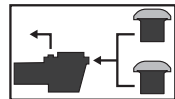
Body Suction Entrapment - This happens when a negative pressure applied to a large portion of the body or limbs can result in an entrapment.



Evisceration/Disembowelment - A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is, damaged, broken, cracked, missing, or unsecured can result in evisceration/ disembowelment.

Mechanical Entrapment - There is potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

⚠ WARNING - To Reduce the risk of Entrapment Hazards:



- When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [1 meter] apart, as measured from near point to near point.
- Dual suction fittings shall be placed in such locations and distances to avoid "dual blockage" by a user.
- Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- The maximum system flow rate shall not exceed the flow rating of as listed on Table 1.



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- Never use Pool or Spa if any suction outlet component is damaged, broken, cracked, missing, or not attached.
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- In addition two or more suction outlets per pump installed in accordance with latest ASME, APSP Standards and CPSC guidelines, follow all National, State, and Local codes applicable.
- Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.

⚠ WARNING - Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increase potential for suction entrapment as described above.

⚠ WARNING - Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increase potential for suction entrapment as described above.

⚠ WARNING - Suction outlet components have a finite life, the cover/grate should be inspected frequently and replaced at least every seven years or if found to be damaged, broken, cracked, missing, or not securely attached.

⚠ CAUTION - Components such as the filtration system, pumps and heater must be positioned so as to prevent their being used as means of access to the pool by young children. To reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. Components such as the filtration system, pumps, and heaters must be positioned to prevent children from using them as a means of access to the pool.



⚠ WARNING - Hazardous Pressure. Pool and spa water heating and circulation systems operate under hazardous pressure during start up, normal operation, and after pump shut off. Stand clear of circulation system equipment during pump start up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover, and/or filter housing and clamp due to pressure in the system, which could cause death, severe personal injury and/or property damage. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control valve position while system pump is running. Before starting system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged.



⚠ WARNING - Separation Hazard. Failure to follow safety and operation instructions could result in violent separation of pump and/or filter components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool



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and spa circulation system, filters manual air relief valve must be in open position. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter manual air relief valve body is in locked position in filter upper body. Never operate or test the circulation system at more than 50 PSI. Do not purge the system with compressed air. Purging the system with compressed air can cause components to explode, with risk of severe injury or death to anyone nearby. Use only a low pressure (below 5 PSI), high volume blower when air purging the pump, filter, or piping.



⚠ WARNING - Risk of Electric Shock. All electrical wiring **MUST** be in conformance with applicable local codes, regulations, and the National Electric Code (NEC). Hazardous voltage can shock, burn, and cause death or serious property damage. To reduce the risk of electric shock, do **NOT** use an extension cord to connect unit to electric supply. Provide a properly located electrical receptacle. Before working on any electrical equipment, turn off power supply to the equipment. To reduce the risk of electric shock replace damaged wiring immediately. Locate conduit to prevent abuse from lawn mowers, hedge trimmers and other equipment. Do **NOT** ground to a gas supply line.



⚠ WARNING - Risk of Electric Shock. Failure to ground all electrical equipment can cause serious or fatal electrical shock hazard. Electrical ground all electrical equipment before connecting to electrical power supply.



⚠ WARNING - Risk of Electric Shock. Failure to bond all electrical equipment to pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, see installation instructions and consult a professional electrician on how to bond all electrical equipment. Also, contact a licensed electrician for information on local electrical codes for bonding requirements.

Notes to electrician: Use a solid copper conductor, size 8 or larger. Run a continuous wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm²) [No. 6 AWG (13.3 mm²) for Canada] solid copper bonding wire to the pressure wire connector provided on the electrical equipment and to all metal parts of swimming pool, spa, or hot tub, and metal piping (except gas piping), and conduit within 5 ft. (1.5 m) of inside walls of swimming pool, spa, or hot tub. **IMPORTANT** - Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and other general wiring procedures.



⚠ WARNING - Risk of Electric Shock. Connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI.



⚠ WARNING - Risk of Electric Shock. The electrical equipment must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the electrical equipment without the test button being pushed, a ground current is flowing, indicating the possibility of an electrical shock. Do not use this electrical equipment. Disconnect the electrical equipment and have the problem corrected by a qualified service representative before using.



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⚠ CAUTION - This pump is intended for use with permanently-installed pools and may be used with hot tubs and spas if so marked. Do not use with storable pools. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.

The NEC (National Electrical Code) Article 680 Swimming Pools, Fountains, and Similar Installations for Permanently Installed Pools in subsection 680.26 Equipotential Bonding paragraph (C) Pool Water, has the requirement of a minimum corrosion-resistant, conductive surface area of 5800 mm² (9 in.²) in contact with the pool water at all times, that is part of the pool bonding system. Where bonded items such as underwater luminaires, rails, or ladders are in direct contact with the pool water and provide the required surface area, it is not necessary to provide another conductive element. However, where the pool does not include any of these items, it is necessary for one to be installed. This device has been Listed in accordance with UL 1081 and UL 1563 and certified to meet Article 680.26(c) of the National Electric Code for bonding pool water, providing the minimum 5800 mm² (9 in.²) surface area in contact with the pool water.

NOTE: Ensure any required inspection(s) of the bonding wire connection are completed prior to pouring concrete or backfilling dirt.

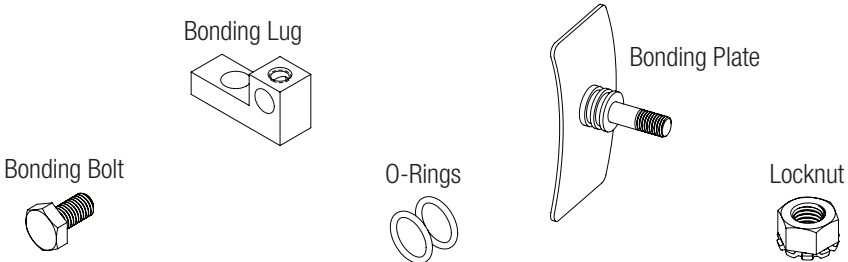
SAVE THESE INSTRUCTIONS

Installation

This device is only intended for installation prior to the installation of the skimmer in the pool and only with Hayward skimmer models provided with the recessed pilot point feature shown in Step 1 and Step 2 on page 5. This device is not intended to be used for retrofit applications where the skimmer is already installed.

What's Included

Verify that the following parts are included in the package:

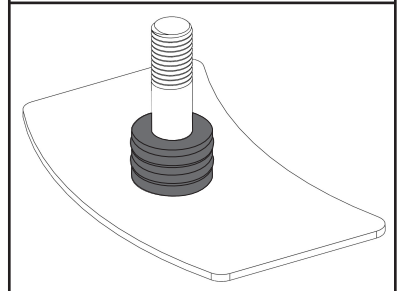
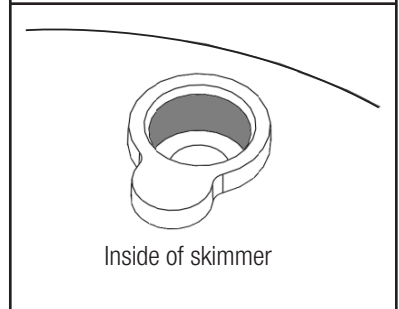
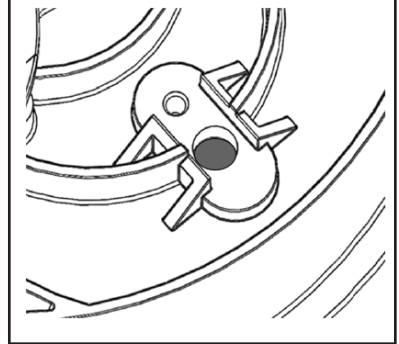
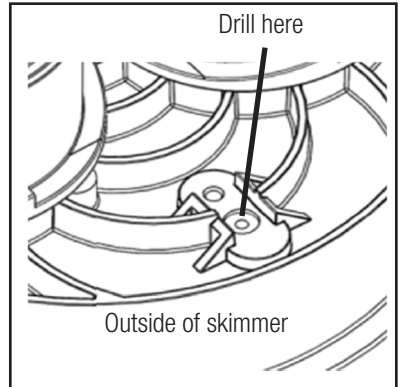




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Installation Steps

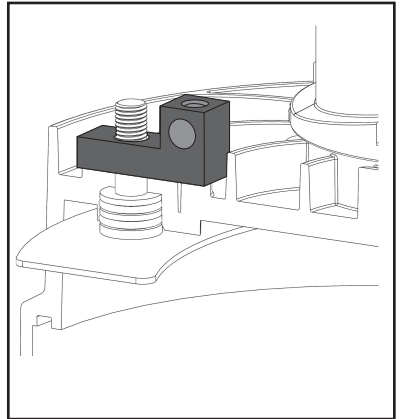
1. Turn skimmer over for drilling access to the bottom. Use a 3/8" drill bit.
2. Drill through the bottom of the skimmer at the recessed pilot point.
3. Drill straight avoiding the seal surface shown to the right.
4. Install O-Rings over the threaded post attached to the Bonding Plate. Lubricate the O-Rings with silicone lubricant.



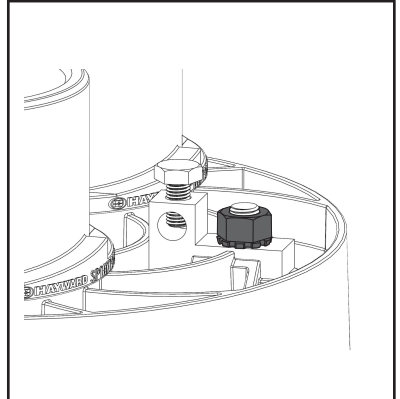


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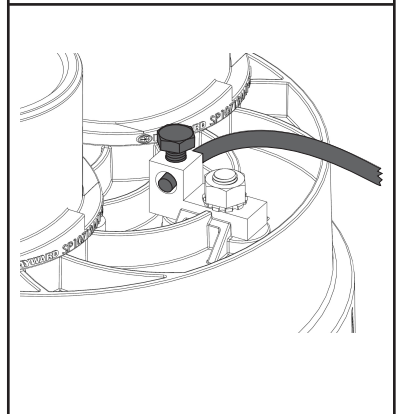
5. Insert Bonding Plate with O-Rings into the drilled hole from the inside of the skimmer as shown. Place the Bonding Lug over the top of the threaded post.



6. Secure the Bonding Lug by threading the Locknut onto the threaded post. Torque to 75 in-lbs.



7. Attach the system bonding wire (8 gauge solid conductor) to the Bonding Lug as shown and torque the Bonding Bolt to 75 in-lbs. The skimmer should now be bonded to the pool system.



For further information or consumer
technical support, visit our website at
www.hayward.com



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