



PoolBond Skimmer Installation Instructions

Part No.
PB-SK-15
PB-SK-20

PoolBond
ELECTRICAL POOL BONDING

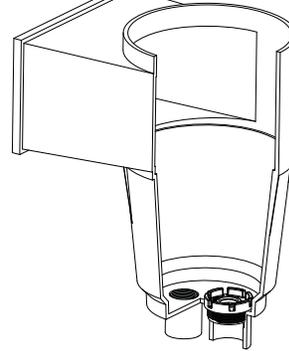
Patent: US 9,194,148 B1

1. PB2008 Skimmer Fitting
2. 10-24 Brass Screw x2
3. Fitting O-Ring
4. Skimmer Plug
5. Plug O-Ring
6. Split Bolt Connector



Step 1: Install Skimmer Plug

For proper sealing, apply o-ring lubricant to the plug o-ring(5). From the top of the skimmer, install the skimmer plug(4) and plug o-ring(5) into the normally plugged skimmer port using a short screwdriver. The screwdriver blade should be long enough to span the castle grooves in the top of the plug. Tighten approximately 1/4 turn after the o-ring contacts the skimmer.



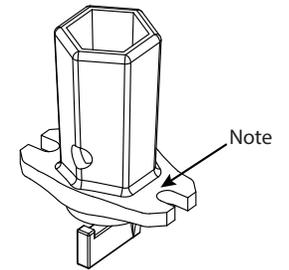
Surface Area Water Bonding Specifications

The 2008 National Electrical Code (NEC) requires that an intentional electrical bond of a minimum conductive surface area of 9 square inches be installed and in contact with the swimming pool water. This requirement is spelled out in Section 680.26(C). PoolBond PB-2008-SK meets the specifications spelled out by the NEC.

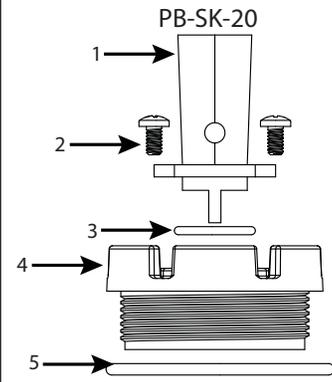
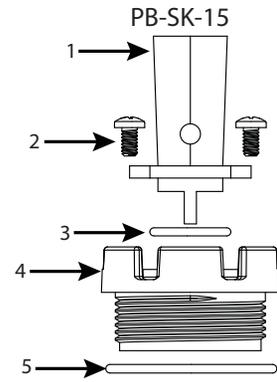
Outside Face Surface Area (.5*1.6)*(1.46+.53) = .792	Inside Face Surface Area (.5*1.7)*(1.33+.40) = .6205	Inside Top Face Surface Area Rectangle .33*.58 = .1914
.792* 6 Sides = 4.752	.5475* 6 Sides = 3.273	Surface Area Triangle .58*.5*.167 = .048
Total = 4.752	Total = 3.723	.048* 2 Sides = .096 Total = .287

Outside Face = 4.752
Inside Face = 3.723
In. Top Face = .287
See Note = 1.808

Total Sq. In. = 10.57



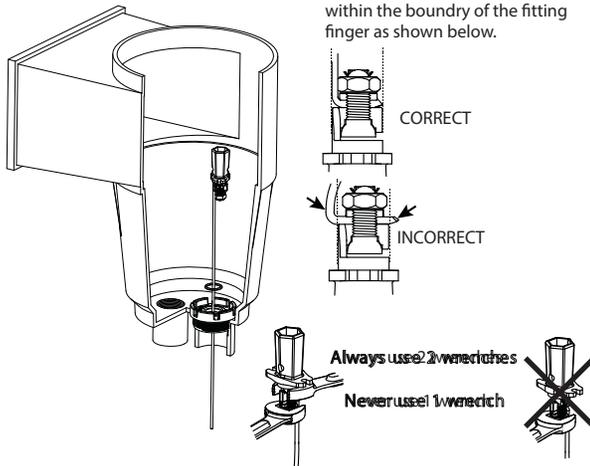
Note: Area for Fillets and outside face not shown.
However total surface area is an additional 1.808 Sq. In.



Step 2: Connect PoolBond to Bonding Wire

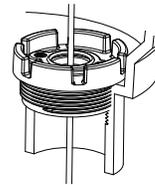
From the bottom of the skimmer, bring the bonding wire through the center of the skimmer plug(4) up to the top of the skimmer. Insert the fitting o-ring(3) over the bonding wire and place the o-ring(3) on the top surface of the skimmer plug(4). Use the split bolt to attach the bonding wire to the PoolBond fitting(1). Always use 2 wrenches to tighten the split bolt as shown in the illustration. Make sure the end of the bonding wire does not extend beyond the edge of the PoolBond fitting. Place a sharp bend in the bonding wire as shown.

Important: When bending wire around the split bolt, keep the wire within the boundary of the fitting finger as shown below.



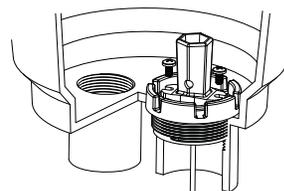
Step 3: Install the Fitting O-Ring

Apply o-ring lubricant to the Fitting O-Ring(3) and insert it into the skimmer plug as show.



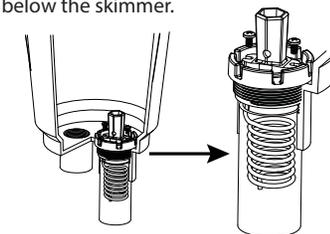
Step 4: Install the PoolBond Fitting

Insert the PoolBond Fitting into the skimmer plug(4) and fitting o-ring(3) installed at the bottom of the skimmer. Using a Phillips screwdriver, connect the PoolBond fitting to the skimmer plug as show. Tighten each screw about 1/4 turn until the PoolBond fitting seats against the top of the skimmer plug(4). Do not over tighten these screws. Over tightening these screws can result in damage to the skimmer plug. Installation is complete.



Installation Suggestion:

Under normal circumstances, the PoolBond fitting will last the life of the pool. If service of the PoolBond fitting becomes necessary, excess bonding wire stored below the skimmer will make service to the PoolBond a simple task. The illustration below shows a simple method to store excess bonding wire below the skimmer.



Perma-Cast Co. Pueblo, CO
www.permacastonline.com
Call 800-748-2770