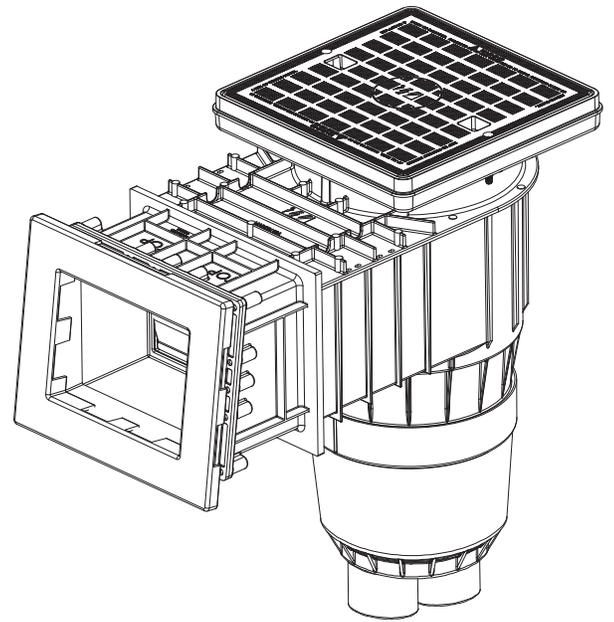
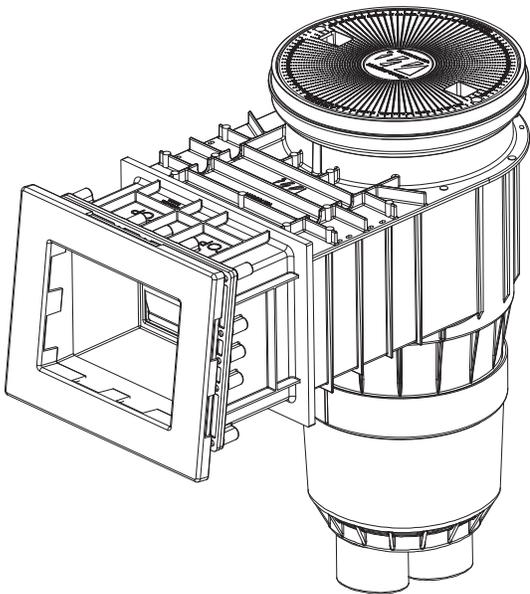




Renegade and 7 Degree Fiberglass Skimmer Installation and Operating Instructions



Round Lid w/ Water Bond

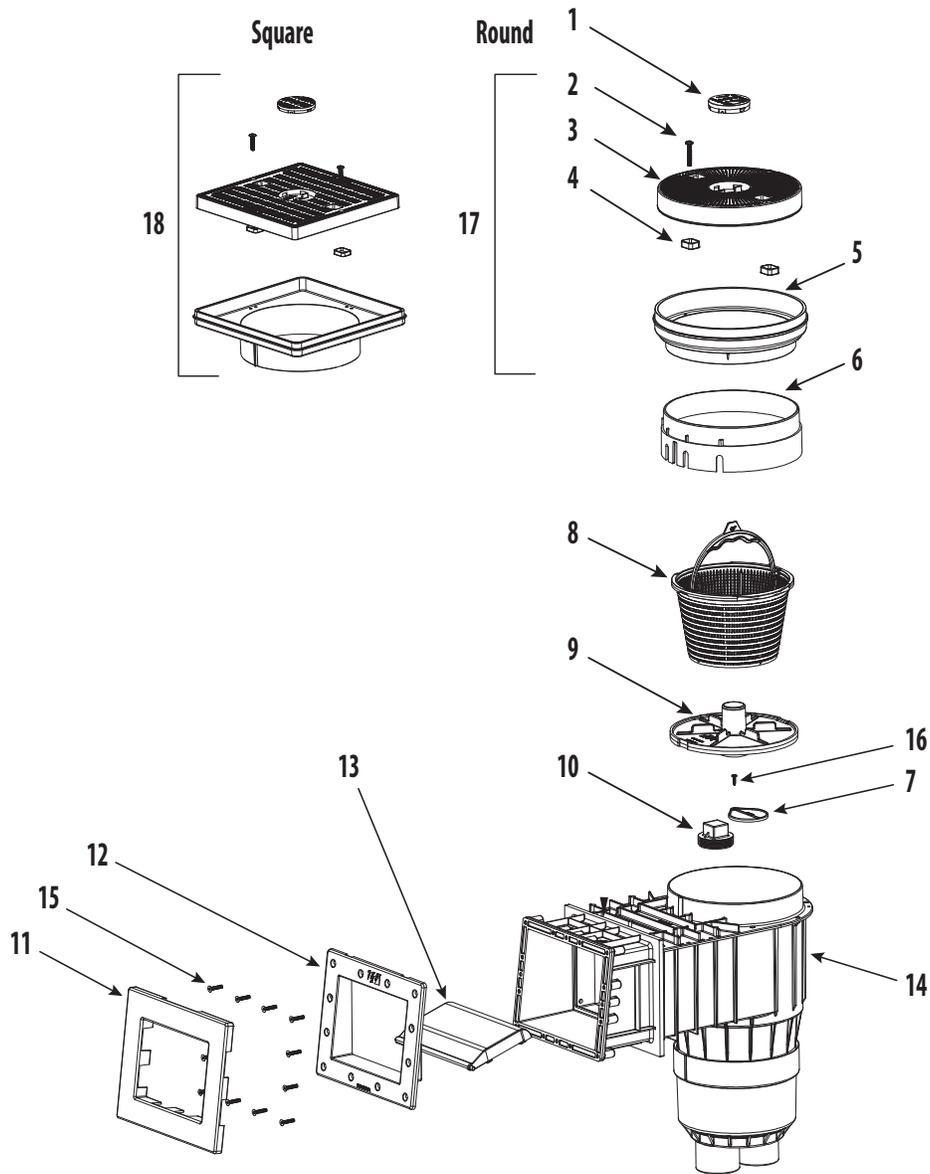
Part Number	Description
540-8400	2" Sockets
540-8420	1 ½" NPT
540-8430	1 ½" Sockets
540-8440	2" NPT
540-5720	2" S Deep Basket
540-5700	2" S Deep Basket Venturi

Square Lid w/ Water Bond

Part Number	Description
540-8500	2" Sockets
540-8520	1 ½" NPT
540-8530	1 ½" Sockets
540-8540	2" NPT
540-5710	2" S Deep Basket
540-5730	2" S Deep Basket Venturi

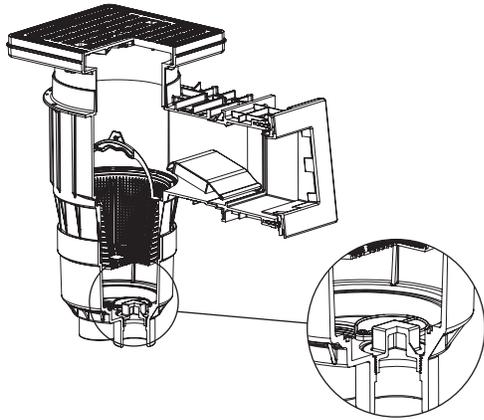
Table of Contents

I.	Mounting Skimmer to Pool Wall	2
II.	Operation of Skimmer	3
III.	Installation of Optional Equipment	4
IV.	Winterizing Skimmer	4
V.	Troubleshooting	4
	Replacement Parts & Accessories	5



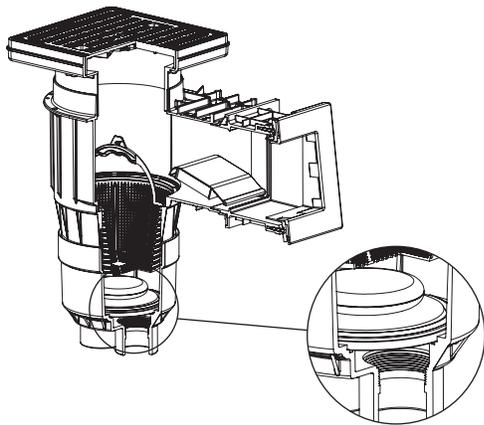
Item	Part #	Description	Quantity
1	540-7800	Logo Lid Insert	1
2	819-0010	Screw #8-32 x 7/16" Phil Pan Head (2 required)	2
3	540-7800	Round Lid	1
4	715-7800	Plug for Reversible Lid	2
5	519-7800	Reversible Lid Cover Round Style	1
6	519-6560	Vinyl Liner Mounting Ring Extension	1
7	519-6470	Gunite Diverter Plate	1
8	519-3240	Gunite Basket	1
9	519-6480	Gunite Vacuum Plate	1
10	715-9910	Plug, Pipe, 2"	1
11	715-9520	Trim Plate Standard Vinyl Liner	1
12	519-3570	7 Degree Slanted Mounting Plate, In Ground Skimmer	1
13	550-9950	Weir Door Assembly	1
14	519-6400	Pool Skimmer Gunite Body	1
15	819-6950	Screw #12 x 1 1/4" PFH Type B (12 required)	12
16	819-4350	Screw - 8 x 5/8" PNHD PHIL	1
17	540-7800	Reversible - Fillable Round Lid Assembly w/Logo	1
18	540-7900	Reversible - Fillable Square Lid Assembly w/Logo	1

Section II. Operation of Skimmer



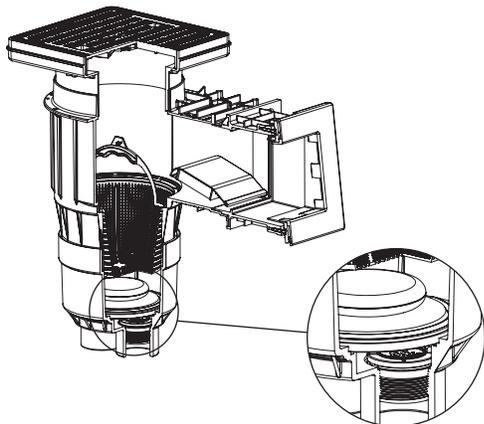
Basic Unit

FLOW ADJUSTMENT - To adjust the flow through the skimmer, move the flow control plate to close the port to the pump to decrease flow, or move the plate to open the port to the pump to increase flow through the skimmer.



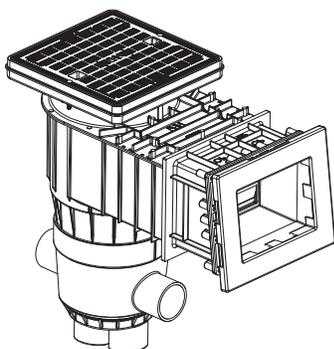
Skimmer with Float Valve Only

FLOAT VALVE OPERATION - The float valve assembly is designed to prevent any air from entering the pump line when the water level gets too low. If the water level drops below the skimmer opening, or if water flow is obstructed, the float inside the valve will automatically close off the skimmer which will cause the skimmer to draw its water supply from the main drain line only, thus preventing air lock in the pump. When the pump is shut off, and the water level is corrected, the flow valve will open back up automatically, allowing normal skimming operation. To adjust the flow with the float valve, slide the flow control plate, on the bottom of the float valve, back and forth until desired flow is achieved.



Skimmer with Float and Equalizer Valves

EQUALIZER LINER - An equalizer line is used when you have two or more skimmers plumbed into a common suction line. The operation of the float valve is the same, but since you have more than one skimmer connected to the suction line, the equalizer line will help prevent air lock in the pump.



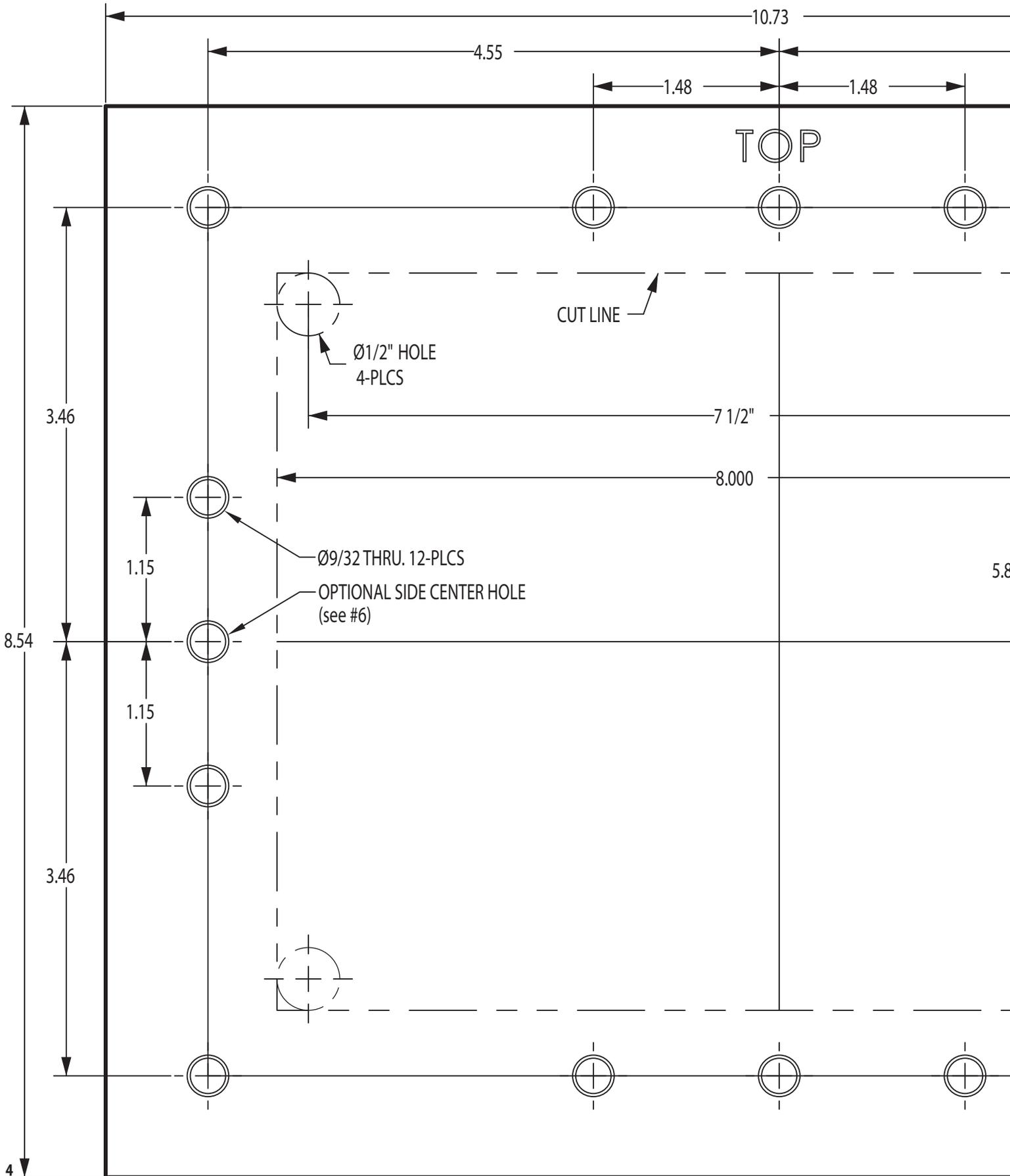
Skimmer with Venturi

The Venturi Skimmer may be operated simultaneously with the normal skimmer function or with the suction from the pump shut off allowing only Venturi powered skimmer action.

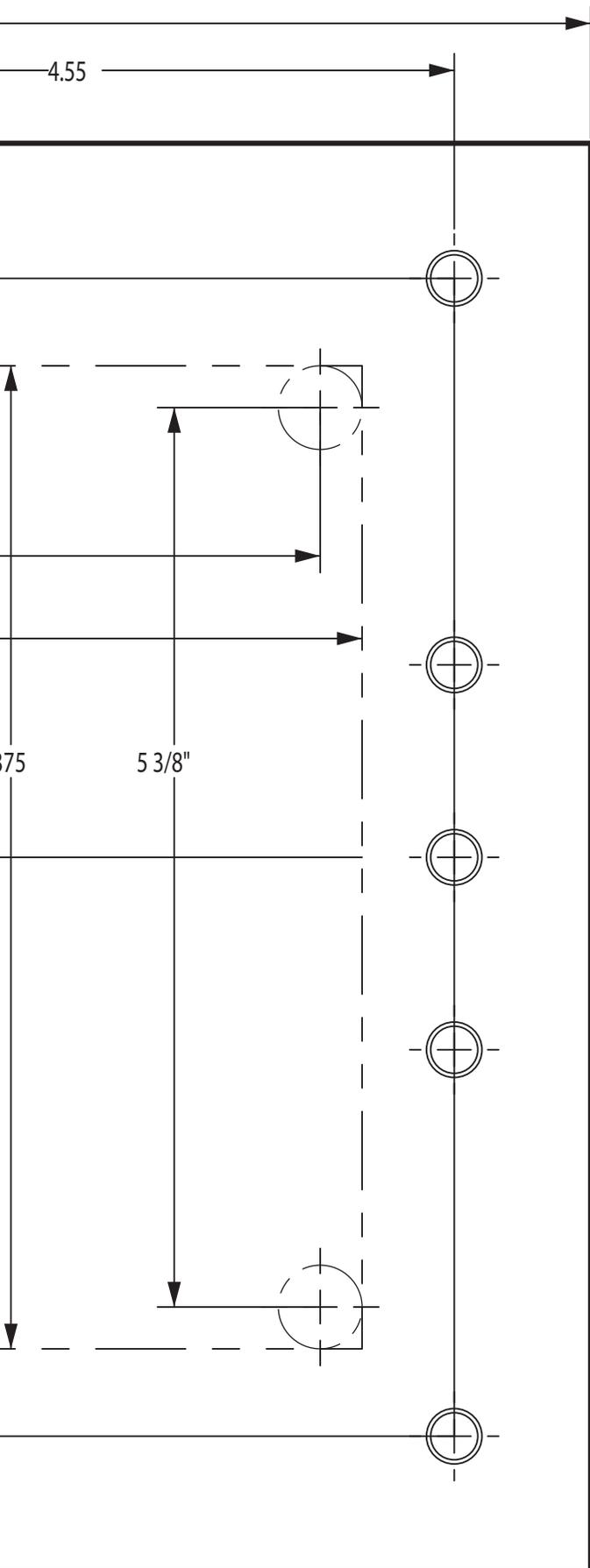
Renegade and 7° Skimmer Hole Template

USE D

(Fig. 1)



DRAWING BELOW TO LINE UP HOLES.
(MAKE SURE WIDTH IS 10.73")



Renegade and 7° In-Ground Vinyl Liner Skimmer Installation and operating Instructions

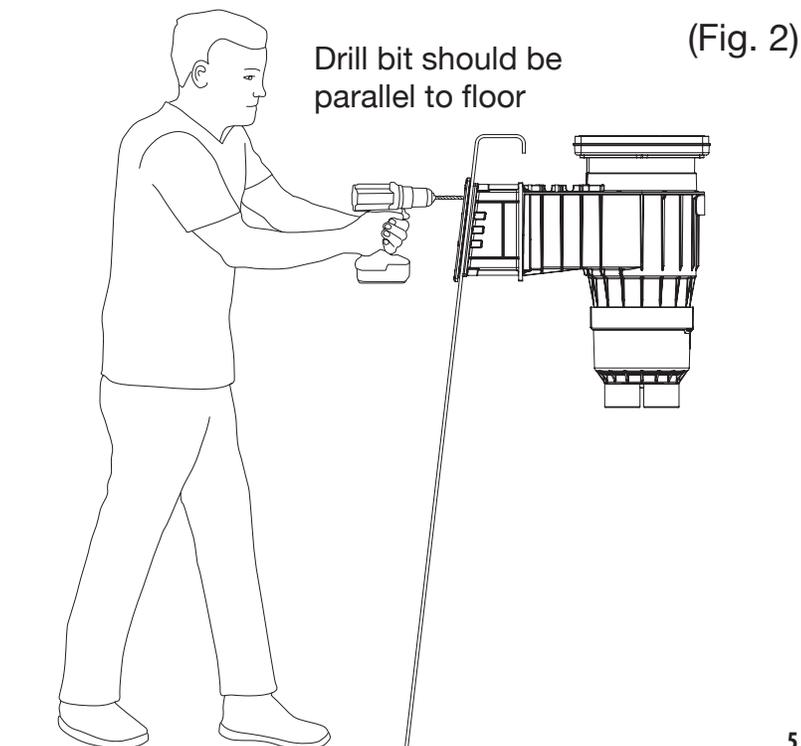
Section 1: Mounting Skimmer to Pool Wall

For optimum skimmer performance, place the skimmer relative to water flow and wind directions.

1. If pool wall has been pre-cut and drilled, skip to Step #5.
2. Cut out rectangular opening through pool wall using the attached template as a guide (see Fig 1).
3. Center the opening of the mounting plate over the cut out in the pool wall and mark the location of the mounting holes.
4. Using a 9/32" diameter drill bit, drill the holes as marked in step #3. For 7° Skimmers, drill holes parallel to the ground (see Fig. 2).
5. Apply ample Silicone adhesive to all sealing surfaces.
6. Optional – Make assembly easier by mounting just the skimmer without the faceplate using the two side center screws first before mounting the faceplate.
7. Tightly fasten the faceplate to the skimmer with the screws provided.

CAUTION!

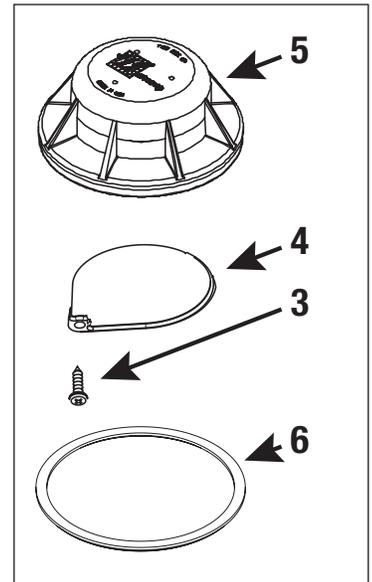
Do not stress pipe at the port connections by lifting or moving the pipe after skimmer port connections have been made.



Section III. Installation of Optional Equipment

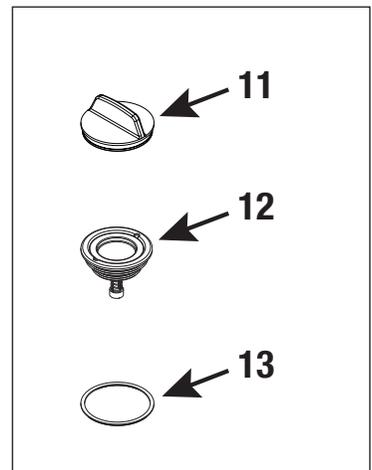
A. Float Valve

1. Press the float valve gasket (Item #6), flat side up, into the groove at the bottom of the skimmer.
2. Place the float valve (Item #5) onto the gasket and press to seal the gasket.
3. To adjust the flow through the skimmer, slide the flow control plate, on the bottom of the float valve, over the hole to reduce the flow, or away from hole to increase flow.



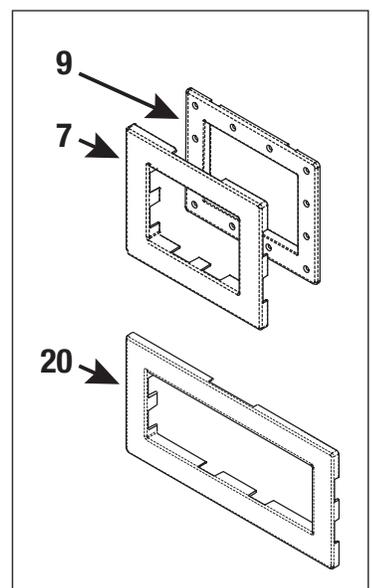
B. Equalizer Valve (for part numbers 540-8400 and 540-8500 only)

1. Place O-Ring (Item #13) into the O-ring groove on the bottom side of the equalizer valve.
2. Thread the equalizer valve (Item #12) into the front port of the skimmer.
3. Using the equalizer valve wrench (Item #11), tighten the equalizer valve until valve is seated. The O-ring is seated.



C. Face Plate Cover

1. Center the face plate cover (Item #7 for Standard and Item #20 for Wide Mouth) over the face plate and press into place.

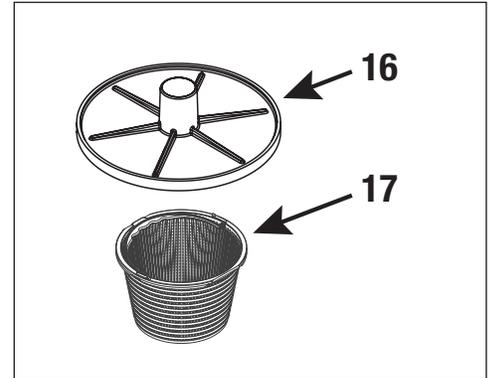


D. Vacuum Plate

NOTE:

The vacuum plate is designed to be used with two (2) different types of vacuum hoses. Depending on what type of hose you have will determine which side of the vacuum plate will face up.

1. Remove the lid from the skimmer by unscrewing the two (2) screws and lifting the lid off the skimmer.
2. If you installed a float valve (Item #5), remove it by removing the basket then removing the float valve. Also, if you installed an equalizer line or main drain, you must block off that port by turning the flow control plate (Item #4) over that port. Replace the basket.
3. Place the vacuum plate ((Item #16) over the skimmer basket.
4. Fill your vacuum hose with water and slide it onto the vacuum plate.
5. Be sure to replace the lid and secure it with the two (2) screws when possible. Failure to do so could result in serious personal injury.



Section IV. Winterizing Skimmer

1. Drain pool level well below the skimmer opening.
2. Plug BOTH ports with Waterway Plastic style NPT Plugs. (Item #23 for 2" NPT or Item #24 for 1 ½" NPT)
3. Cover the top of the skimmer to prevent any rain/water accumulation in the skimmer.

Section V. Troubleshooting

Problem	Cause	Remedy
Pool surface not clean, inadequate skimming effect.	Skimmer basket full of debris, improper water flow through skimmer, water level incorrect in pool, poor water circulation.	Clean skimmer basket, open flow control plate, raise or lower water level, increase surface water circulation.
Pool surface clean, but bottom is dirty.	Main drain obstructed, poor water circulation.	Clean main drain, increase circulation at bottom of pool.
Skimmer with Venturi Pump not getting water.	Valve in off position.	Open valve to 1/4 position.



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