



SC3000 CNC SKIMMER PUMP RETROFIT INSTRUCTIONS

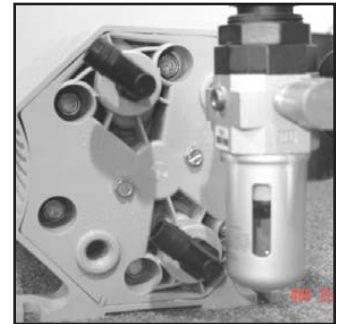
BEFORE YOU START

You will need these tools before you begin to retrofit your Rustlick SC3000 CNC Skimmer:

- ✓ Small hacksaw or abrasive cut-off tool
- ✓ $\frac{3}{8}$ " wrench
- ✓ $\frac{7}{16}$ " socket wrench with an extended socket
- ✓ $\frac{3}{8}$ " socket wrench with an extended socket
- ✓ Hand-held drill with $\frac{1}{4}$ " drill bit

STEP 1: Removing the hoses from the old pump.

- a. Cut the hoses off below the hose barbs at the filter inlet and bottom of the yellow coupler (1.a). If the skimmer is not empty you may want to tape the two hoses together against the SC3000 tank to keep them in an upright position and prevent the fluid in the hoses from spilling.
- b. Using your small hacksaw or abrasive cut-off tool remove the clamps and remaining hose from the filter and yellow coupler (1.b). Make sure to save the yellow coupler.



1.a

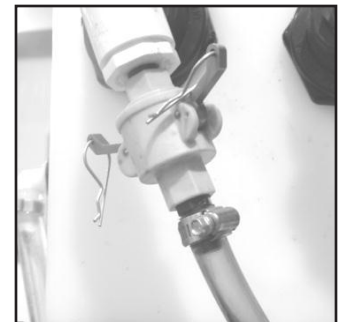
STEP 2: Removing the pump.

If the skimmer is completely empty:

- a. Turn the skimmer on its side to expose the bottom of the machine.
- b. Remove the 4 bolts that attach the pump to the frame and proceed on to (e).

If the skimmer is not empty:

- c. Leave the skimmer upright and reach under the frame with your $\frac{7}{16}$ " socket wrench and attach it to the bolts holding the pump in place.
- d. Use your $\frac{3}{8}$ " wrench on top, along with your $\frac{7}{16}$ " socket wrench on the bottom, and remove the bolts from the pump. Put these pieces to the side, you will need them later.
- e. After removing the bolts that hold the pump in place remove the old pump from the skimmer frame and discard.
- f. Next remove the filter/regulator and put aside to reuse. If there is still fluid left in the skimmer at this time discard it into the proper waste container.



1.b

STEP 3: Reversing the filter/gauge assembly.

- a. Remove the air gauge and set aside. Remove the plug from the opposite side and set aside (3).
- b. Insert the gauge into the port that you have just removed the plug from and insert the plug into the gauge port.
- c. Make sure that you have the assembly arranged so that the air "IN" port is on the right side (3).



STEP 4: Creating the new pump footprint.

- Align the left rear hole on the pump with the existing left rear hole on the skimmer frame (4.a).
- Using a pencil or pen mark the spots where new holes need to be drilled into the skimmer frame for the other pump holes. These holes should be on the top right and bottom left corners (4.b).
- Drill these new holes using your hand-held drill and 1/4" drill bit (4.c).
- Use the 3 new 10-32 x 3/4" pan head Phillips screws, 10-32 Nylock nuts, and SAE #10 fender washers to attach your new pump to the skimmer frame.

NOTE: If you have chosen not to empty your skimmer use the 3/8" socket wrench with an extended socket and a Phillips screwdriver to attach the new pump.



4.a



4.b

STEP 5: Pump assembly.

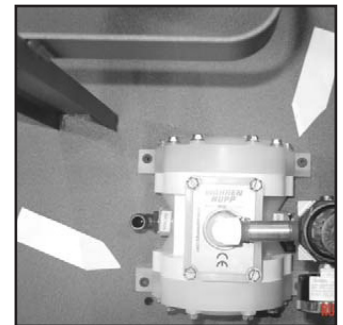
- Attach the reversed filter regulator by spinning it clockwise.
- Tilt the filter regulator 20 degrees (from a vertical position)
- Install the pump exhaust muffler to the side of the pump below the filter regulator.
- Make sure that the filter regulator is OFF by turning it all the way to the left (counter-clockwise)

STEP 6: Reattaching the hoses.

- Insert the hose barb with yellow coupler into the "discharge" tube and clamp.
- Next, attach the coupler to the yellow male fitting at the inlet bulkhead on the tank.
- Insert the hose barb on the right side of the filter canister into the "suction" tube and clamp (refer back to 1.b if needed).

STEP 7: System set-up and priming.

Attach the air supply to the inlet port of the filter regulator and proceed with standard set-up.



4.c

INCLUDED IN THE RETROFIT KIT:

Part No.	Description	Qty.
378210	SC3000 Pneumatic Pump	1
9266	1/4" street elbow	1
9239	1/4" x 2" long nipple	1
378049	1" worm drive (Aircraft) clamp	4
78163	1/2" x 3/8" NPT hose barb	2
78106	3/4" polyurethane tubing, 2.5 feet	1
	3/4" polyurethane tubing, 2.0 feet	1
78044	10-32 x 3/4" pan head Phillips screw	3
378046	10-32 Nylock nut	3
378047	SAE #10 fender washer	3
9267	3/8" street elbow	2

