Easy Spa Parts
We know what you need.

Replacing Your Sta-Rite Pump Seal

Turn power off at the GFCI.

Remove the access door to the equipment area.

Unplug the motor at the electrical control can.

Close the slice valves if your spa has them. (Otherwise, drain the spa.)

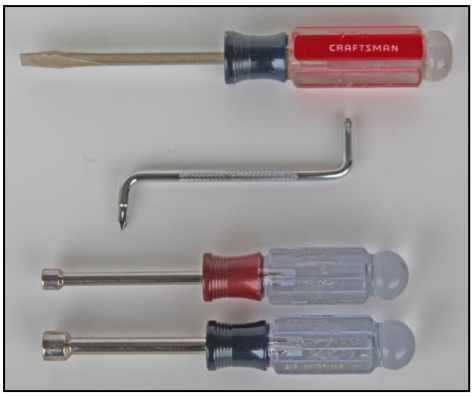
Loosen the pump 2 unions.

Loosen any mounting bolts and remove the pump assembly from the equipment box.

This job is best done on a workbench.

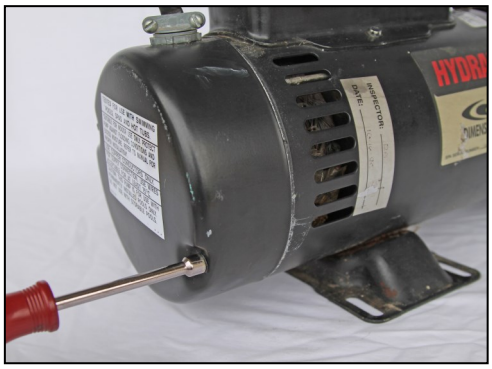
Step 1:

The tools required include a flathead screwdriver, 90 degree screwdriver, and 1/4” and 3/8” nut drivers.



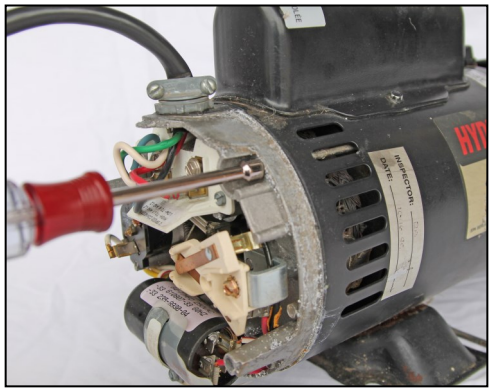
Step 2:

Loosen the screws and remove the shroud.



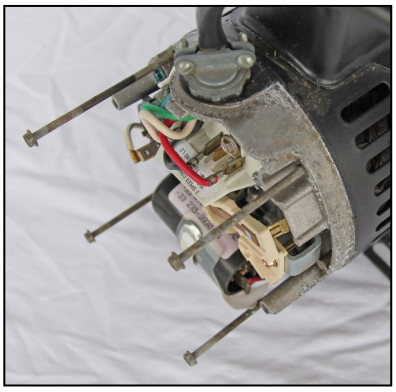
Step 3:

Loosen the 4 thru-bolts.



Step 4:

Pull the bolts back a few inches, but there is no need to remove them.

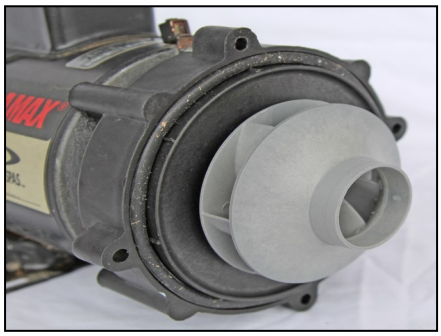


Step 5:

Remove the four bolts on the front case.

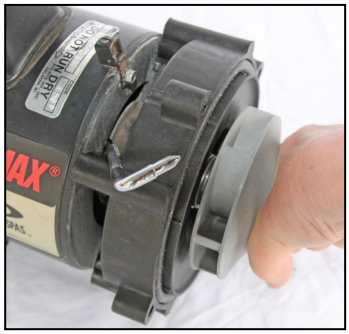
Step 6:

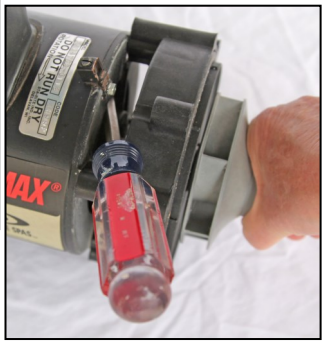
Remove the front case, leaving the impeller showing.



Step 7:

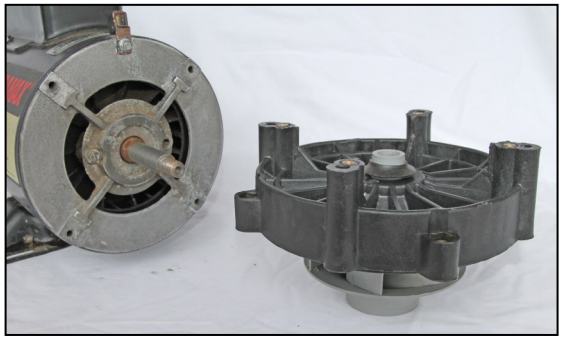
Grab the impeller with one hand. Carefully place the 90 degree screwdriver, or the flathead screwdriver, in one of the veins inside the motor. (The 90 degree screwdriver is less likely to damage the motor veins.) It takes a bit of patience, but you should be able to stop the shaft from turning and loosen the impeller by hand.





Step 8:

Remove the impeller and seal plate.



Step 9:

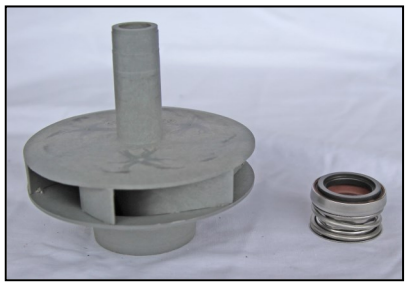
Remove the rubber washer (aka “slinger”).

Step 10:

Separate the impeller from the seal plate.

Step 11:

Remove the spring assembly from the impeller shaft.

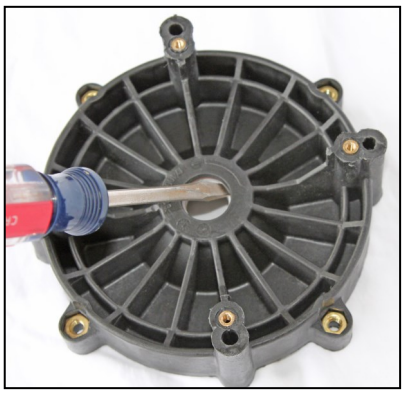


Step 12:

Lubricate the shaft with liquid soap from the kitchen or O-ring lubricant, and slide the new spring assembly, flat edge down. The spring assembly should go all the way down the shaft of the impeller.

Step 13:

From the back side of the seal plate, use the screw-driver to push the ceramic disc out of the seal plate. With just a little pressure, it will pop right out.



Step 14:

Wipe the ceramic disc seat with a clean rag, removing any old dirt or grime.

Step 15:

Pumps use mechanical seals with a rubber seat ring. Lubricate this rubber surface with liquid soap from the kitchen or O-ring lubricant. The lubricant makes the installation of the seal easier. Wipe off any excess lubricant that may have gotten on the white ceramic surface.

Step 16:

Using a clean, dry towel, push the ceramic disc firmly back into its seat. Wipe the white ceramic surface clean once it's on place. A dirty or oily surface will cause the seal to leak prematurely.

Step 17:

Remove the large O-ring and wash it with soap and water. An old O-ring will deteriorate over time and must be replaced. If it's still in usable condition, clean the groove it sits in. Lubricate the O-ring and return it to its seat.

Step 18:

Re-install the impeller back into the seal plate.

Step 19:

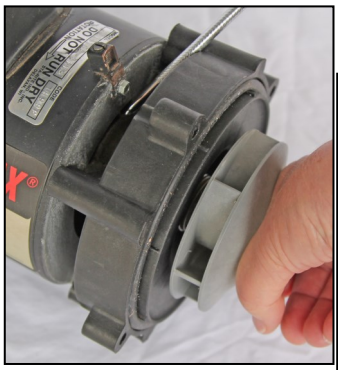
Return the washer back in place.

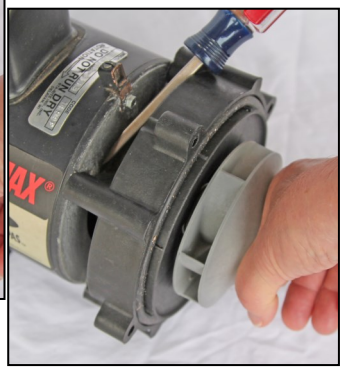
Step 20:

Re-install the back plate assembly and turn the impeller until the shaft begins to spin.

Step 21:

Grab the impeller with one hand. Carefully place the 90 degree screwdriver, or the flathead screwdriver, in one of the veins inside the motor. (The 90 degree screwdriver is less likely to damage the motor veins.) Remember, patience is a virtue when getting the screwdriver in place.



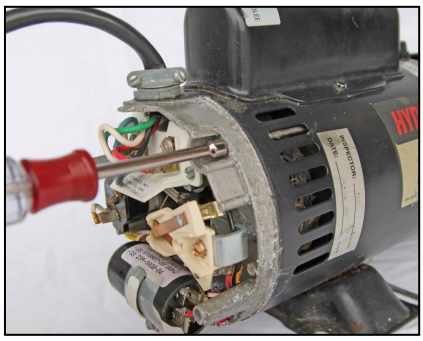


Step 22:

Re-attach the front case.

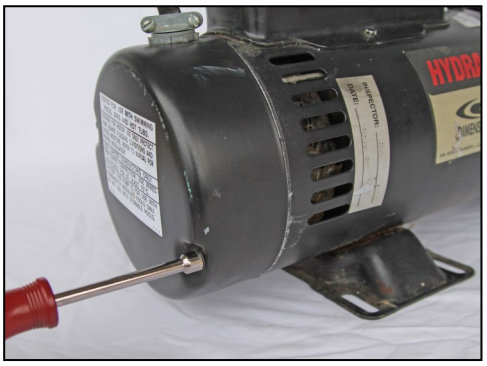
Step 23:

Reinstall the thru-bolts.



Step 24:

Reinstall the shroud.



Step 25:

Reinstall the pump, open the check valves if your spa has them, or refill the spa.

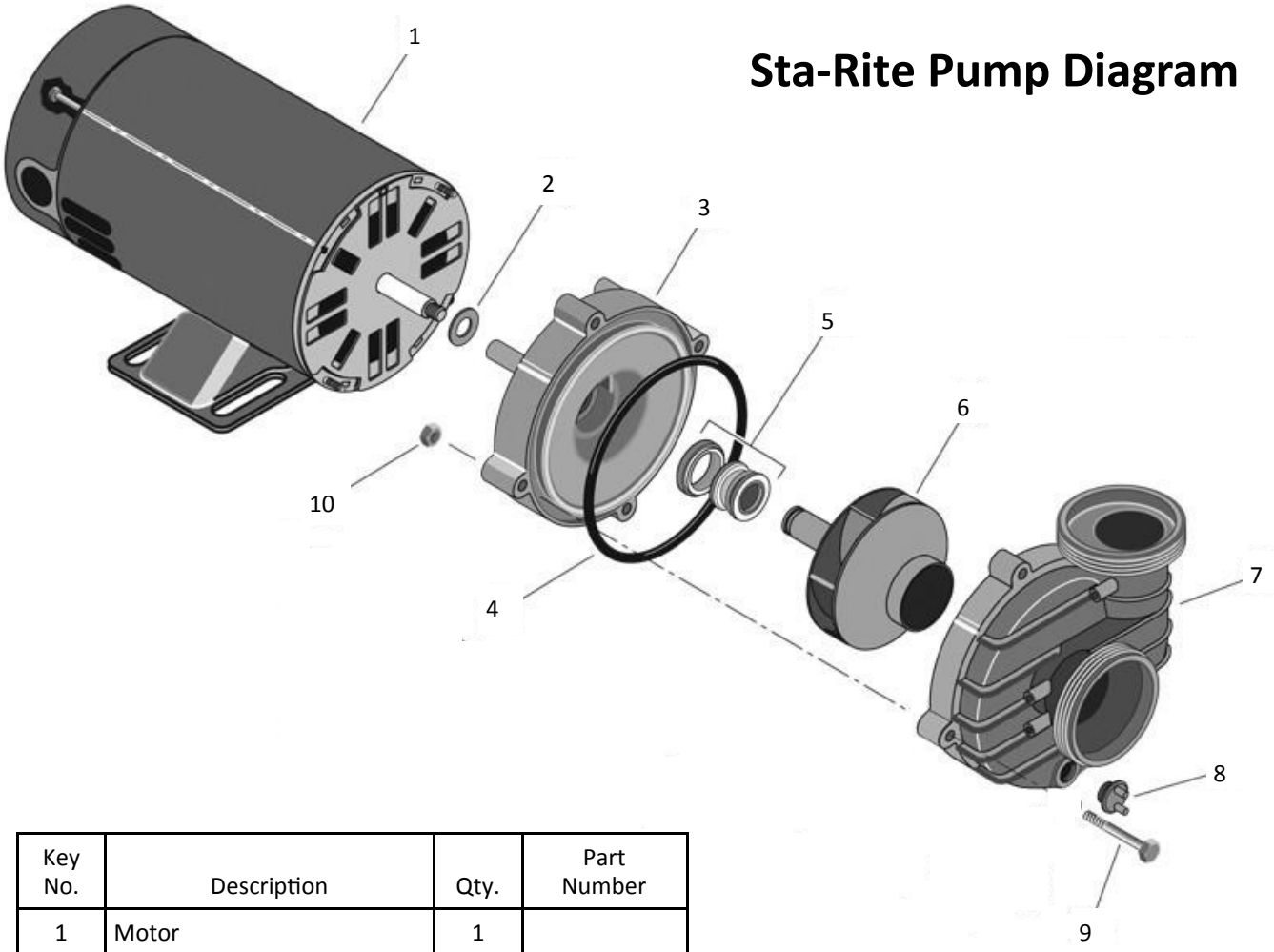
Turn the power on at the GFCI.

Remember that pumps should only run with water in the spa or there is a risk of burning up the motor.

Pump seals may take time to “seat” themselves, so don’t be surprised if there is a small amount of dripping water for up to ½ a day.

Please call if you have any questions
866.418.1840 Toll Free
www.EasySpaParts.com

Sta-Rite Pump Diagram



Key No.	Description	Qty.	Part Number
1	Motor	1	
2	Slinger	1	
3	Seal Plate	1	
4	O-Ring	1	1512-301
5	Seal	1	1512-310
6	Impeller	1	
7	Front Plate/Volute	1	
8	Drain Plug	1	1512-332S 1512-332L
9	Screw, 1/4-20x1-1/2”	4	
10	Nut, Hex 1/4-20, Brass	4	