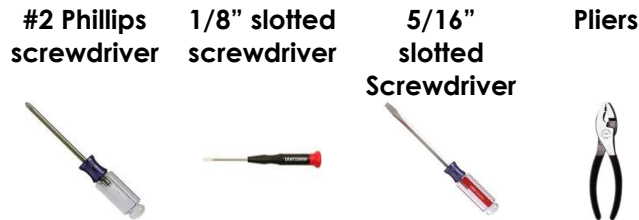






Dual-wire Hose Clamp Removal and Replacement Procedure



Tools required:







Before you begin, read and understand all steps of the procedure before beginning so as to familiarize yourself with what is required. Use common sense and always work safe.

1	<p>Turn electrical power off to your spa by turning off its GFCI breaker.</p> <p>Note: It is recommended that you lock this GFCI breaker box so that no one can accidentally turn the power back on while you are working.</p>	
2	<p>Behind trim buttons¹ there are eight #2 Phillips screws holding this panel on: 3 on the left trim piece, 3 on the right trim piece, and 2 on the bottom. Remove the trim pieces and then the bottom screws. As you remove the bottom screws, this panel will fall. Lift the panel out of the way and store all parts in a safe place.</p> <p>CAUTION: This panel weighs at least 10 pounds and will fall down to the ground as the bottom screws are removed. Keep your feet clear of the bottom of the panel and be prepared for this to happen.</p>	
3	<p>Unplug the black spa pack power cord from its receptacle in the grey box.</p>	
4	<p>Locate the hose clamp that is leaking. If necessary, remove any additional panels to access the leaking clamp.</p>	

¹ Some spas do not use trim buttons to cover the screws.

5	<ul style="list-style-type: none"> Grasp the clamp with the pliers Slide the clamp down the tubing Repeat this operation for the clamp at the other end of the tubing <p>⚠ CAUTION: Water will come out of the tubing and the fitting once they are separated. Do not remove the tubing from the fitting at this time.</p>	
6	<ul style="list-style-type: none"> Cut a piece of new tubing to the length of the existing tubing On the new tubing, install a fresh set of clamps on each end Slide the clamps down the new tubing to about the same position as on the present tubing Route the new tubing through the spa to the positions needed Kink one end of the new tubing and put a piece of tape around it near the bend to hold the kink in place. This will keep the water from running out as you connect it in the next step <p>Note: When routing the new tubing, use a similar route to that of the old tubing. Use gentle bends when routing tubing around corners and near other equipment to maintain proper flow. It is better to make the new tubing too long than to cut it too short.</p>	
7	<ul style="list-style-type: none"> Working at the end without the taped kink, loosen the existing tubing from the fitting Grasp the new tubing in one hand Quickly remove the old tubing from the fitting and push the new tubing on that fitting Kink the old tubing to stop the water from coming out Put a piece of tape around the kink near the bend to hold it in place <p>⚠ CAUTION: Water will quickly come out of both the tubing and the fitting once they are separated. Be prepared for this to happen and work quickly to minimize the amount of water lost.</p>	
8	<ul style="list-style-type: none"> Working at the other end, loosen the existing tubing from the fitting Grasp the new tubing in one hand Quickly remove the old tubing from the fitting and push the new tubing on that fitting Remove the tape around the kink from the new tubing 	
9	<ul style="list-style-type: none"> Push the tubing all the way up onto the fitting Grasp the clamp with the pliers Slide the clamp up the tubing onto the fitting Repeat this operation for the clamp at the other end of the tubing <p>Note: The tubing should cover the entire fitting and the clamp should be on the tubing.</p>	

10	Plug in the spa pack.	 <p>Plug in Spa Pack</p>
11	Turn on the GFCI breaker.	 <p>Turn On GFCI Breaker</p>
12	<ul style="list-style-type: none"> • Turn Pump 1 on HIGH. • Using a flashlight, check for leaks at the two fittings 	 <p>Check for leaks</p>
13	Check that the repair has just solved the problem.	
14	<p>Replace the silver insulation and all panels. Replace the trim buttons over the screws (if present).</p> <p> Tip: It is safest to have two people install these panels: one holding the panel in place while the other puts in the screws.</p>	