

INSTALLATION INSTRUCTIONS FOR SOLAR FOUNTAIN (WP5012) - OVAL TANK

The solar fountain consists of the following components:

1. Bamboo Spout with Mounting Base
2. The Water Pump & Mounting Plate
3. The Solar Panel
4. The Switch

BAMBOO SPOUT:

The bamboo spout comes already attached to the mounting base. Place the mounting base on the “T” beam crossbar of the tank at an angle so that the water doesn’t exit the tank. Mount the base to the top of the “T” beam using two 2-1/2” deck screws.

WATER PUMP & MOUNTING PLATE:

The water pump sits on the mounting plate and is attached with a zip ties between the rivets for stability. The power cord should be against the mounting plate with the removable cover accessible for cleaning. The hose is attached to the discharge spout and secured with a hose clamp. It should be placed somewhere for easy access for cleaning. The entire assembly is set over the tank liner retainer and held in place with the c-channel. See Figure 1.

SOLAR PANEL:

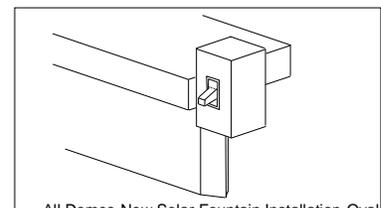
Mount the solar panel to the outside of the dome adjacent to the undersoil solar panel. Attach it using three of the mounting holes on the panel. Screw through the glazing into the wood struts below using the 3- 2½” deck screws provided. (If there are metal glazing strips over the struts, you will need to drill through them.) You will also need to drill a ¼” hole through the glazing for the wire to go inside the dome, preferably near the edge of a wood strut. Seal around this hole with silicone after the wire is inserted.

On the inside of the dome, connect the solar panel wire to the extra wire using the wire nuts provided. Route the wire along suitable struts on a diagonal to the corner of the water tank where the pump is located. You will have to “fish” the wire through the hubs in this process. Staple the wire to the struts using the quantity of staples per strut shown on the parts list. (Hint: If you put the wire on the upper sides of struts, and staple them near the glazing, the wire will be less noticeable.) When you get to the area covered by reflectix, continue to staple the wire to the reflectix-taped strut, coming down as far as the top of the tank. Use the last wire staple, then use the reflectix tape included to cover the wire on the tape/strut surface.

You may wish to connect the wires from the solar panel to the pump at this time to test the unit. If it does not operate, reverse the wires. Also, be sure it is sunny outside!

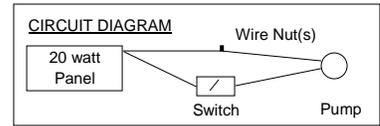
ATTACHING THE SWITCH:

“Tap” a hole through the bottom back of the box for the wires. The tan switch box is attached to the end of the horizontal piece of the “T” beam. Drill two holes, ¾” and 1½”, in from the side edge of the box. It will then be mounted shown. Through these holes, you will angle 2- 1 3/4” torx screws into the end of the “T” beam to secure the box. It



can be mounted to either end of the “T” beam or mounted to the dome structure.

Route the solar panel wires and the pump wires through the “tapped” hole in the bottom back of the switch box. After the wires have been routed through the box, connect the black wire with a wire from the solar panel and secure it with a wire nut.



The remaining wires will connect to the switch. The solar panel wire will attach to the top screw of the switch (orient the switch so that the words “ON & OFF” are not upside down!). The remaining pump wire will attach to the bottom screw of the switch. Turn on the switch to ensure correct installation. If it does not work, check the connections. If it still does not work, you may have to reverse the two pump wires or reverse the two solar panel wires.

After making sure the pump works, attach the switch to the switch box and then attach the switch plate to the switch.

FIGURE 1: CROSS SECTION OF SOLAR WATERFALL

