

## Installation Instructions

# Double Oblique Fire & Water Fountain

(Fire & Water Remote Controlled)



Time to Completion for Two People: 3 Hours

## Step 1: Delivery of Fountain to Job Site and Unpacking of Components



The photo at left shows what the fountain will look like when delivered to your location. Using a combination of remnant carpet pieces and plastic wrap the manufacturer of these fountains creates a ‘cocoon’ to completely protect the fountain during shipping. We actually installed two of the Fire and Water Fountains and one other Water Fountain for this customer and none of them had any damage whatsoever due to shipping. So I am confident to say there packaging method is very effective in protecting the fountains during shipping.



The photo at right is the same as above after all the carpet and plastic wrap has been removed. Notice the fountain components are on a pallet. All of the fountains we will be shipping will be packaged just as you see in these photos.



The photo at left is a view of all the components of this fountain after we unloaded it from the trailer and spread it out on the ground.

## Step 2: Prepare and then Install the Fountain Base Pieces

The customer we did this job for wanted their fountains in the planters that bordered their grassy area. They did not however want to pour concrete in the planters so we used 2" masonry cap block instead. The photo at right shows the cap block after we leveled them and added sand between them in preparation for the install of the fountain base.

Notice the gas and electric in the center of the area.



This was the point in time when we started our time clock to see how long it would take us to set up this fountain.

The first thing we did was slip the hard plastic base over the gas and electric stubs as shown in the photo at left.

Notice the black sleeve the gas and electric are stubbed up through – this sleeve extends above the water level thereby preventing the water from leaking out through the hole meant for the gas and electric.

Next we slipped the decorative base over the hard plastic base. The decorative base does not attach to the hard plastic base at all – it just sits there.



### Step 3: Installation of the Large Pyramid



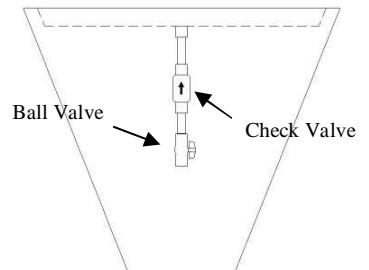
The photo at left shows the Large Pyramid after we installed the flexible water line to the plumbing inside and set it on the hard plastic base.

In the photo and drawing at right you see what the plumbing looks like inside the Large Pyramid.

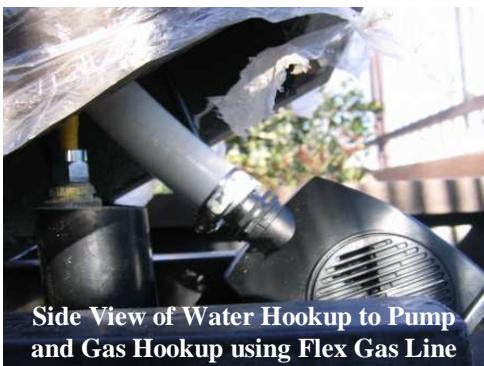
In the kit that comes with this fountain there is a flexible hose and adaptor to connect the hose to the ball valve inside the Large Pyramid.



Photo of plumbing inside the Large Pyramid as seen from the bottom looking toward the top



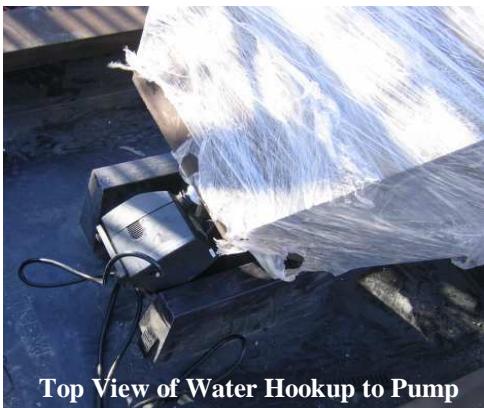
CAD drawing of plumbing inside Large Pyramid



Side View of Water Hookup to Pump and Gas Hookup using Flex Gas Line

Once we had our flexible hose attached to the plumbing inside the Large Pyramid the next step was to connect the water pump which comes with this kit and extend the gas and electric up through Large Pyramid.

We found the easiest way to accomplish this was to have one person tip the Large Pyramid up as shown at left and the other person make the connections. We then fished the flexible gas line and the electrical through the opening in the top of the Large Pyramid as shown in the photo below.



Top View of Water Hookup to Pump



Top View of Large Pyramid when complete

#### Step 4: Install the Small Pyramid



In our excitement to complete this fountain we did not get the photo of the fountain after installing the Small Pyramid. The photo at left is actually a photo after we set the Small Pyramid, installed the components that go inside the Small Pyramid and then installed the Top Fire Cap.

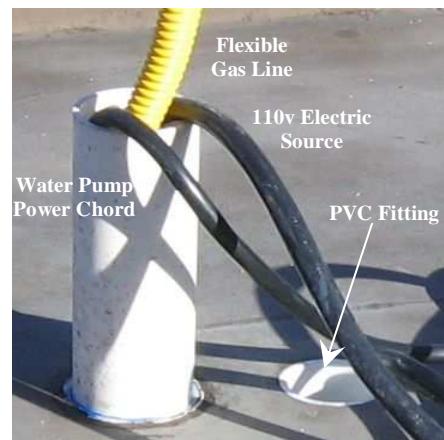
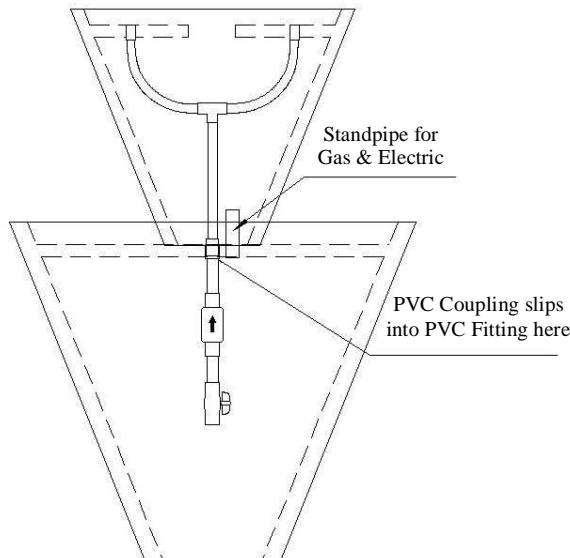
For now, imagine if you will that the Top Fire Cap (the short decorative square piece on top) is not there.

The water plumbing connection between the Large Pyramid and the Small Pyramid is a very simple ‘slip’ connection that is achieved by slipping a  $\frac{3}{4}$ ” PVC coupling from the Small Pyramid side into a PVC Fitting in the top of the Large Pyramid. Reference the photo at right and bottom right and the drawing below.

When installing the Small Pyramid, we positioned the Small Pyramid on angle on top of the Large Pyramid. While one of us slowly tipped it upright, the other person guided the PVC Coupling from the Small Pyramid into the PVC fitting in the top of the Large Pyramid. It was a very quick and easy connection to make.



This PVC coupling in the bottom of the Small Pyramid slips into the PVC Fitting in the top of the Large Pyramid



View of Standpipe for Gas & Electric in Top of Large Pyramid and PVC Fitting the Small Pyramid plumbing slips into

## Step 5: Install Electrical Components and Fire Module Through Top Hole in Small Pyramid

Once we had the Small Pyramid in place it was time to install the X-10 electrical components and the 24 volt Transformer needed to power the Fire Module. All of these components were housed in a 4" x 8" electrical box that easily fit inside the Small Pyramid.

Unfortunately we forgot to take photos of the electrical box so we are unable to show them here.

One important thing to note; NONE of the components that were installed inside the Small Pyramid were physically attached to the fountain. The reason for this is because we felt if ever any of the components needed to be repaired or replaced in the future it would make it much easier if the components could be taken out of the fountain and worked on outside as opposed to trying to work in such a small space as shown in the photo at right.



View through the hole in the top of the Small Pyramid



View of the Fire Module after all electrical components were installed and the gas line was connected to the Module

Once all the components were installed and the gas line was attached to the inlet side of the Fire Module we created a support bracket that we attached to the Fire Module. As seen in the photo at left, the support bracket held the Fire Module suspended in the hole in the top of the Small Pyramid.

Again, the support bracket we created for the Fire Module was not physically attached to the fountain. The reason, as described in the previous paragraph, was so it could be easily removed to access the other components inside the Small Pyramid. The flexible gas line we used to attach to the Fire Module was long enough to allow us to lift the Fire Module out and above the top of the Small Pyramid by a couple of feet.

We created the support bracket described above for this job, it was not included with the fountain we purchased. All future fountains will come with a support bracket.

## Step 6: Attach the Top Fire Cap

Installing the Top Fire Cap was just a matter of applying Epoxy to the bottom of the Cap and positioning it in the center of the top of the Small Pyramid. Afterward we installed the Heat Shield which was a simple matter of just 'dropping' it into position. Neither the Heat Shield or the Epoxy were included in the Kit we purchased but both will be part of all future Kits.



Applying Epoxy to bottom of Fire Cap



View from Top after Fire Cap and Heat Shield Installed

## Step 7: Finishing the Install

Once the installation process was complete the next step was to use shims as necessary to get the fountain perfectly level. Though the concrete block base we prepared earlier was fairly level, we knew some minor adjustments would have to be made.

The shim you see in the photo below came with the fountain kits we ordered so, using the pack of shims and our level we leveled the fountain all the way around.



After filling the fountain with water and running the water we noticed the water flow was not exactly even all the way around so we adjusted our shims accordingly until the water flow was even. Afterward we trimmed our shims so they would not be visible. Trimming these plastic shims is just a matter of snapping them off as close to the base as possible.

The last thing we did, which was really not required but a nice ‘finishing’ touch was add a little lava rock to cover the Fire Module as shown in the photo at right.



**When we checked our time clock at this point 2 hours and 45 minutes had elapsed! Not bad considering this was our first time installing one of these!**