

MONTARA WATER FEATURE: DOUBLE
Installation Instructions



MAW-9648

The basins, water trays, and bowls (shown above) will arrive in one shipment and plumbing and electrical components will arrive separately.

You can find information about caring for Tournesol products and materials by visiting:
<https://tournesol.com/asset/64a79c5f5c2eb/Care%20Maintenance%20Warranty.pdf>
where you can download Care & Maintenance documents.

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NEEDED FOR ASSEMBLY *Not Included*

- 5/16" Socket or Socket Driver
- 3/32", 7/32" & 3/16" Hex L-Keys
- Caulk Gun (10 oz. tube)
- ABS/PVC Primer & Adhesive
- Teflon (plumber's) Tape
- Soft (damp or wet) Cloth
- Channel Locks or Pipe Wrench (shims, level sizes)
- Shims, Levels (24" & 96")

Unit(s) should be moved in their shipping packaging to a location in close proximity to their final installed location. Carefully remove the packaging materials and inspect the units for any damage that may have occurred during shipping. If damage has occurred, immediately report this to the shipping carrier at the time of delivery. For additional information, refer to the "Water Feature Unloading & Placement" (48-02734-00) document.

NOTE

Read through all instructions before starting your installation.

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SITE PREPARATION

UTILITIES

See “Montara Utility Setup – Double” drawing for utility placement and details. This drawing should have been included in the product submittal and is also included in the Appendix to this document.

Water In – Supply a ½” water line to the site of the water feature with a minimum pressure of 30psi. The water line location should follow the utility setup drawing. The *line should extend a few inches above the substrate where water feature will be placed.

Drain Out – Supply a 1” drain line to the site of the water feature. The drain line location should follow the utility setup drawing. The *line should extend a few inches above the substrate where water feature will be placed.

NOTE

Due to possible alignment issues between the utility stub-outs and the water feature, it is recommended to connect both the water line and drain line to the bulkhead fittings on the water feature using flexible pipe and any appropriate adapters that might be required. Allow a pipe length that can reach beyond the bulkhead fittings on the water feature as the length can be cut at installation.

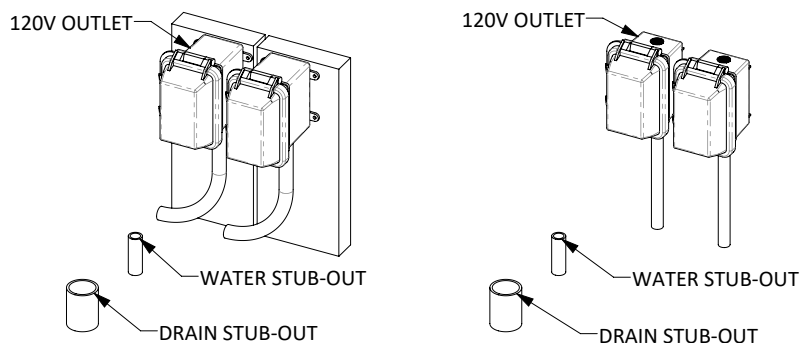
Pump 120V – From a dedicated Arc Fault Circuit Interrupter (AFCI) 120V, 15-amp circuit breaker supply an outlet to the site of the water feature. Placement should follow the utility setup drawing for your water feature. Use a weatherproof outlet cover at the water feature for added protection.

Light 120V – From a dedicated Arc Fault Circuit Interrupter (AFCI) 120V, 15-amp circuit breaker, supply an outlet to the site of the water feature. Placement should follow the utility setup drawing for your water feature. Use a weatherproof outlet cover at the water feature for added protection.

Power Control – Install a control device between the main supply and the power feeds to the water feature. This control could be a mechanical timer, programmable logic controller (PLC), or other means of controlling power as per the planned water feature operation. Recommendation: Separate the pump and light power circuits, as their operations may not always be synchronized.

NOTE

Note: Conduit material and size must comply with local codes or ordinances, as installation requirements vary. A typical 120V circuit may require three (3) 14 AWG conductors, and the conduit should be sized accordingly. For both the pump and light circuits, use weatherproof electrical outlet covers for additional protection against water ingress.



NOTE

Ensure that the main breakers supplying power to the water feature are turned off for installation. They may be turned on briefly to verify power is being applied to the electrical components (e.g pump, light). Do not turn on pump without water in the basin.

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FOUNDATION / SUBSTRATE

The water feature should be placed on a surface that can support the weight of the unit when fully filled with water. Suitable surfaces include: concrete slab, pavers or stone, compacted crushed granite, or other materials that provide a solid, stable foundation.

PRO TIP

If crushed stone is to be the foundation, a flat and level mortar bed encompassing the footprint of the units can be installed. This added step will help prevent the base from settling and consequently causing an out-of-level water feature.

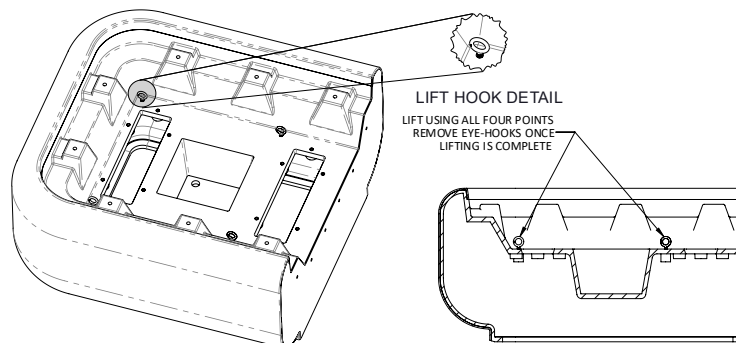
NOTE

The substrate should be stable, flat, and level to ensure proper function of the water feature. If a level surface cannot be achieved, the variation should not exceed 1/16 inch per linear foot in any direction across the area where the water feature will be placed. It is essential to have a solid and level substrate to better 'fine-tune' the leveling of the water feature.

BASIN PLACEMENT

PLACE BASINS

LIFTING – Lifting and placing the water feature basins should be done as quickly and safely as possible. Each basin is equipped with four lift points (eye-hooks). Important: Do not lift the basin higher than necessary to clear the utilities and then limit the lifting duration to no longer than 5 minutes at a time. Once the basin is in position, the eye hooks can be removed by unscrewing them.



NOTE

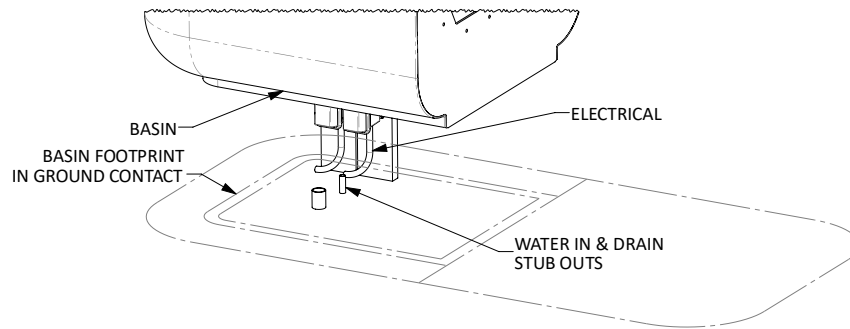
For additional details on lifting the GFRC basins, reference the "Water Feature Unloading & Placement" document (48-02734-00).

PLACEMENT – For a double water feature, place the first basin (*two access openings and the sump pocket*) at the location of the stub-out utilities. Position the basin as close as possible to the location shown in the utility drawing (refer to your documentation submittal package or the appendix).



Take care to avoid damaging the utilities during placement of the basin.

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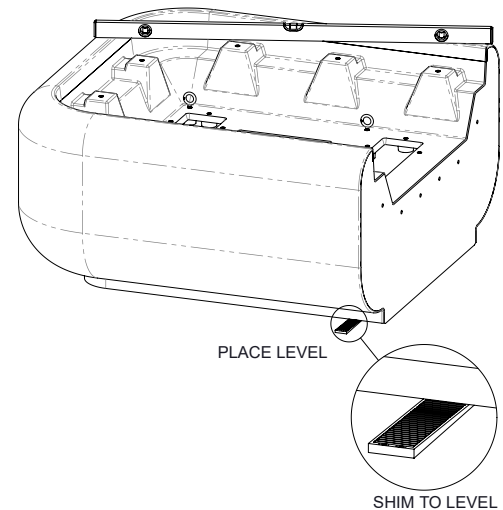


LEVELING – There are several ways to level the water feature, depending on your installation. For a double water feature, start with the utility unit (*two access panels and the sump pocket*). A simple method is using composite shims, available at most home improvement stores.

STEP 1 – Check and Adjust the Level

Place a box or beam level on the top lip of the basin, from one side to the adjacent side. A level as short as 4 feet may be used for smaller features, but a longer level is required for double (8 feet) or triple (12 feet) features when leveling together. If other leveling tools are available, feel free to use them. Check the level across the top of the basin.

Place a shim under the side that needs to be raised. Gently tap or push the shim underneath. You may need to add more shims along the edge of the basin to achieve the correct height and stability and full support of the base. Continue adjusting shims while checking the level until basin is properly leveled.



STEP 2 – Level the Basin in the Other Direction

Place the level across the top of the basin in the other direction (roughly 90 degrees from the first level check). Follow the same process to level in this direction. Continuously check the level in both directions. If the basin goes out of level in any direction, adjust the shims accordingly.

STEP 3 – Trim Shims

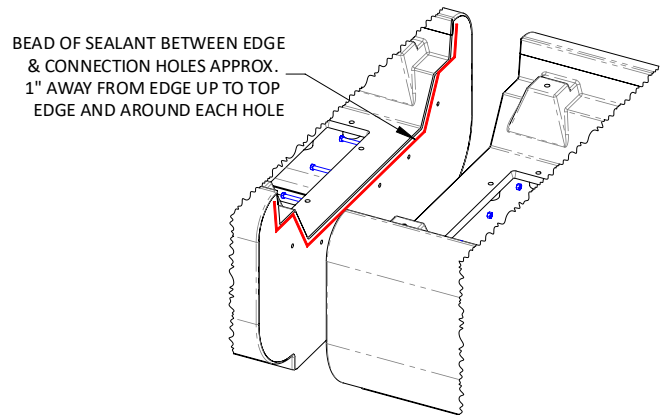
Once the first basin is level, trim the shims so they do not protrude beyond the base of the GFRC units. Use a sharp utility knife to score along the desired cutting line, then snap the shim by applying gentle pressure with your hands. The weight of the basin should hold the shim in place.

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STEP 4 – Place Additional Basin

With the first basin in place, set the second basin near and in line with the first and prepare for connection and sealing. Gather the 3/8" hardware required to bolt the two basins together in preparation for connecting. Place 1/4" beads of sealant (Sikaflex 1A or suitable silicone caulk) on the flat face of the first basin. The sealant should follow the interior profile of the basin edge (as shown below) as well as surround the connection holes.



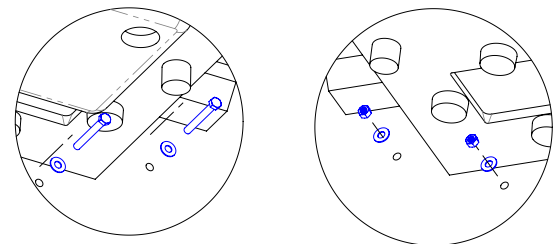
BASIN CONNECTION - SEALING

STEP 5 – Bring Basins Together & Connect

Lift, push or move the two basins together ensuring that they align all edges fairly closely.

NOTE

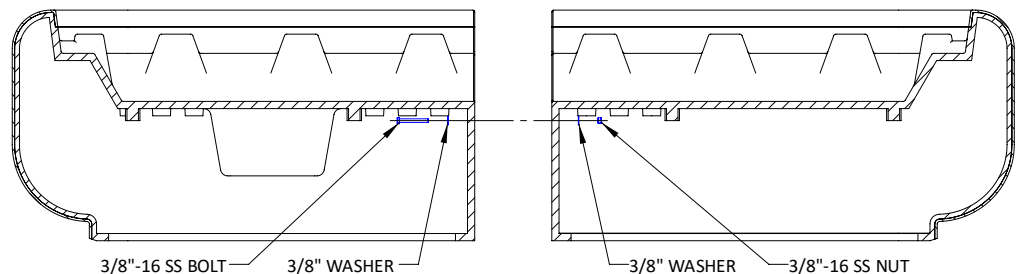
This will likely be a two-person process with one person inserting bolt and washer on one basin, and the other person inserting washer and nut on the other basin.



BASIN INTERIOR - SIDE 1

BASIN INTERIOR - SIDE 2

Place the 3/8" hardware through the holes in the basins and hand-tighten. Align all main surfaces of the basins with one another. This will require using a level and



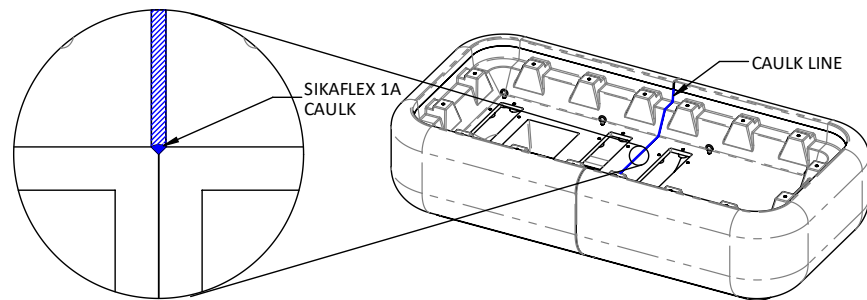
BASIN CONNECTION HARDWARE

shimming, where necessary. Once the two basins are properly aligned and level, tighten the hardware to secure them together.

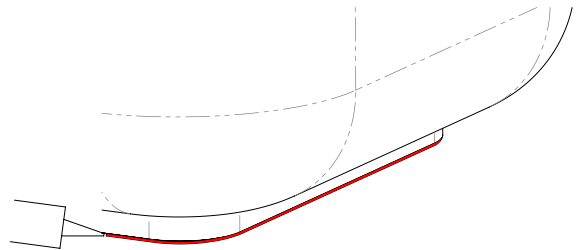
STEP 6 – Seal Basin Reservoir Seam

Once the basins are secured to one another, clean the V-groove created by the two chamfer details on the edge/joint of each basin with a clean rag and some acetone. Allow the area to completely dry before applying the caulk. Seal the seam within the reservoir area with Sikaflex 1A. The groove will provide a guide for the caulk to fill the seam. Once the caulk is in place, the seam can be smoothed and the area cleaned with a soft wet cloth. Be careful not to wipe away the caulk and let the caulk set for several hours before filling the units with water (typically not done until the final steps in the process).

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BASE SEALING (optional) – If desired, and if the water feature is placed on a suitable, solid surface, the basin(s) may be sealed to the substrate. Before sealing, ensure the surface is fully leveled. To seal, apply a bead of Sikaflex 1A along the bottom perimeter of the basin. Although a tube of compatible Sikaflex may be included with your order, the color will not match but will be compatible or complimentary to your water feature color. If additional tubes are required, they should be the same color supplied.



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ASSEMBLY

NOTE

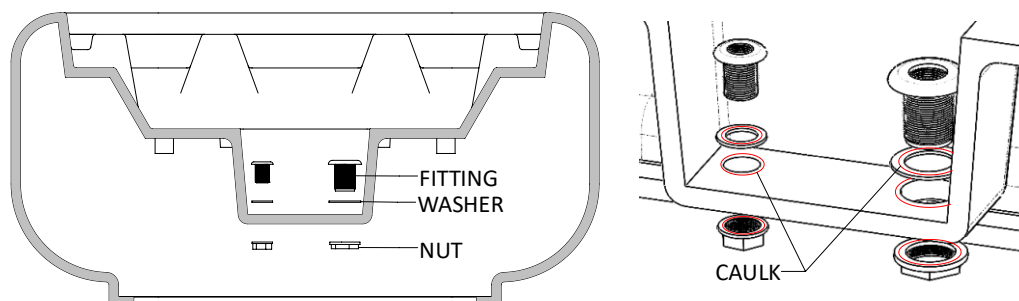
Power to the water feature should be off during assembly.

COMPONENT ASSEMBLY

In addition to assembling the GFRc components of the water feature, some plumbing and electrical assembly may be required before installation if these components do not ship pre-assembled. For specific assembly details, please refer to the “Plumbing Components” section in the Appendix of your installation guide. The following are items that may require assembly:

BULKHEAD FITTINGS

Before installing both the fill valve and overflow drain assemblies, bulkhead fittings must be installed into the bottom of the sump pocket within the GFRc basin. The smaller fitting will accept the fill valve and the larger fitting will accept the overflow drain. Add an annular bead of caulk (silicone) between the rubber washer and flange of the fitting. Add another bead of caulk to the backside of the washer (that goes against the surface of the pocket). Place the fitting into the hole from the top. Add another bead of caulk to the flat of the fitting nut and screw the nut onto the threads of the fitting from the underside and hand tighten. With a pair of channel locks (or pipe wrench) fully tighten the nut.



PRO TIP

The bulkhead fittings can be installed prior to the placement of the basin.

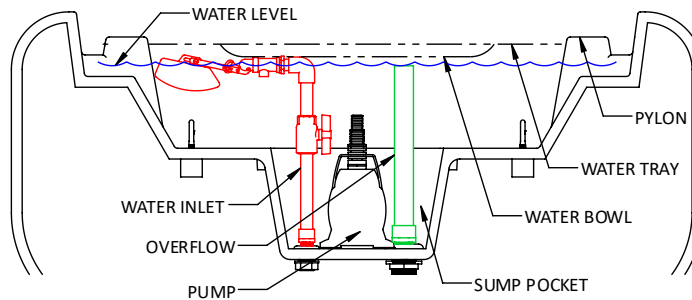
FILL VALVE

If not pre-installed, or if assembly is not required, install the water fill valve into the basin by screwing it into the bulkhead fitting at the bottom of the sump pocket. Important: Position the valve so that the float valve is not directly over the sump pocket, as shown below. (*See Water Feature Appendix for assembly instructions*)

OVERFLOW DRAIN

If not pre-installed, or if assembly is not required, install the overflow drain into the basin by screwing it into the bulkhead fitting at the bottom of the sump pocket. Reminder: The assembly (pipe & adapter) may need to be removed temporarily to adjust the pipe length for the water overflow. This ensures clearance under the water bowl. (*See Water Feature Appendix for assembly instructions*)

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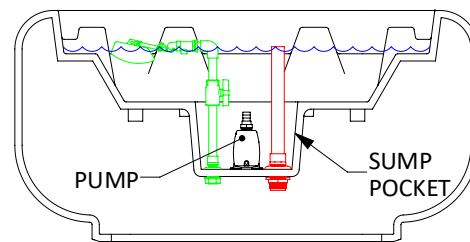
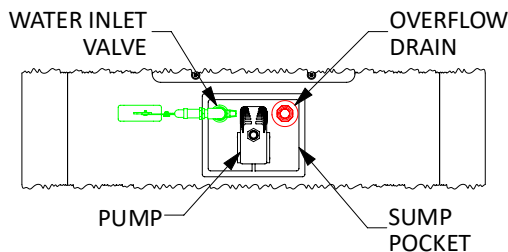


PUMP AND PIPING

Before installation, verify that the pump is functioning by submerging it in a 5-gallon bucket of water and plugging it into a nearby protected outlet.

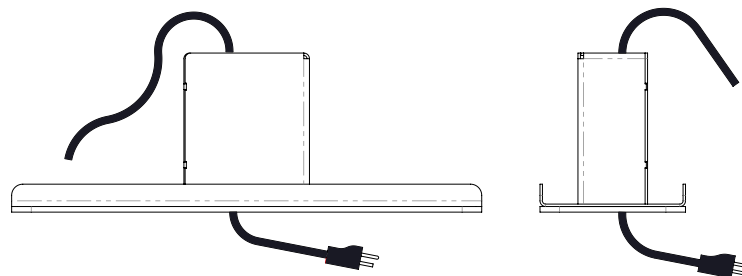
STEP 1 – Position the Pump

Place the pump in the bottom of the sump pocket (the deepest part of the basin) in an upright position. Ensure the water discharge is pointing upwards. Align the pump's discharge approximately with the location of the light/jet. Caution: Avoid damaging the previously installed water fill valve and drain assemblies.



STEP 2 – Route the Power Cord

Route the pump's power cord from the sump pocket to the access panel within the reservoir and through cord tunnel. The access panel should temporarily be placed within the basin but not secured.



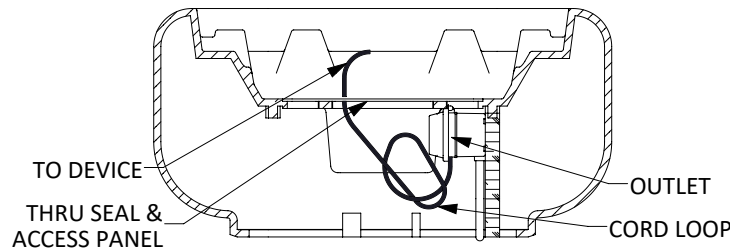
STEP 3 – Connect the Pump Power Cord

Connect the power cord to the appropriate outlet inside the basin, accessible via the access panel opening.

NOTE

Before plugging the pump into the outlet, create a cord loop that extends below the outlet. This will allow any collected moisture or water to drip off the cord, preventing water from reaching the outlet.

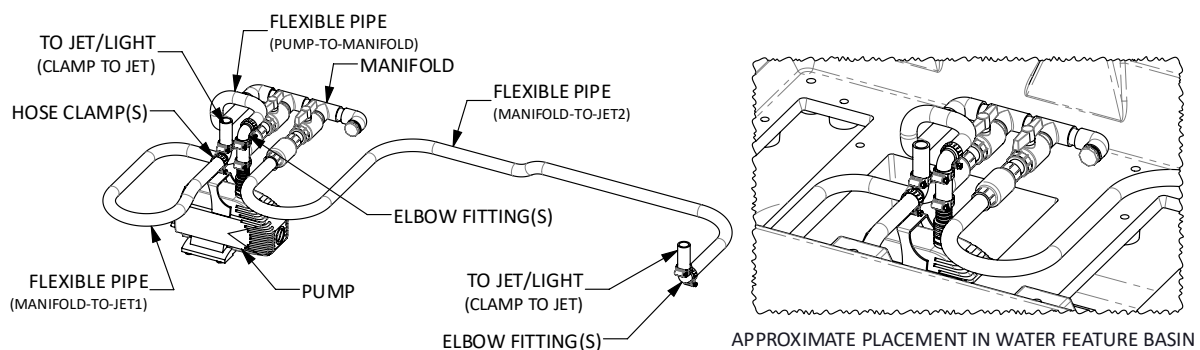
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STEP 4 – Add Plumbing to the Pump

Various components are required to connect the pump to the jets. This includes various lengths of flexible pipe, elbow fittings, clamps, and a manifold with ball valves for flow adjustment. The plumbing will reside within the reservoir of the feature basin.

It may be necessary to place the pump off-center so that the smaller pieces of flexible pipe and elbow fittings connecting to the pump and that will connect to the jets do not interfere with one another. The longer pieces of pipe and manifold can rest within the reservoir where both ball valves will be accessed for flow adjustment once the jets are attached and installed. Units should come with more flexible pipe than required. The length of the sections of pipe will vary however, most of the pipe should be used to provide a service loop for lifting and setting aside the bowls for adjustments or maintenance.



Flexible Pipe Lengths: Pump-to-Barb Elbow = 2"-3"; Barb Elbow-to-Manifold = 16"-24"; Manifold-to-Barb Elbow Jet 1 = 32"-36"; Barb Elbow-to-Jet 1 = 3"; Manifold-to-Barb Elbow Jet 2 = 60"-72"; Barb Elbow-to-Jet 2 = 3"; or a total length of 120"-144". To build the manifold, see Appendix document.

PRO TIP

The flexible pipe can be difficult to press on to barb fittings. If this occurs, place a hose clamp onto the tube, then either use a lubricant (diluted dish soap) or a heat source (low-temp heat gun) to soften the end (~1") of the pipe and insert over the barb fittings. Secure the flexible pipe onto the fitting with the hose clamp

SUMP POCKET FILTER

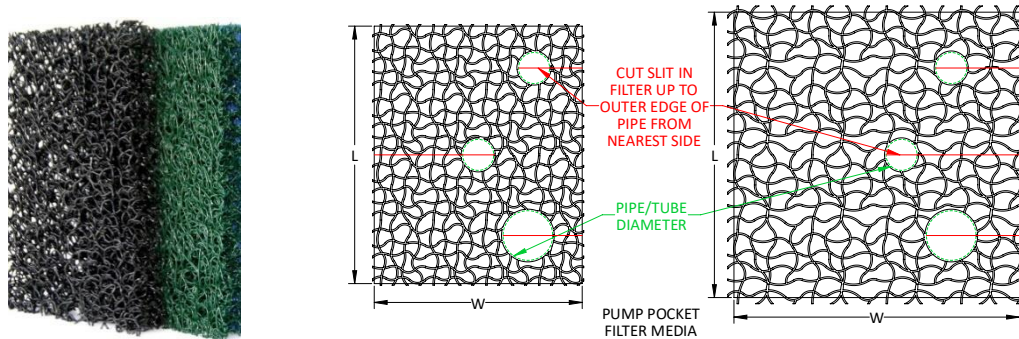
To prevent larger particles from interfering with pump operation and to prolong its life, you can install additional filter material in the sump pocket. The recommended filter material is a unique, random-weave media that keeps larger particles from reaching the pump.

Cut the filter media to a size slightly larger than the sump pocket opening (length x width). Measure and mark the locations of any penetrations (water intake line, overflow drain, pump discharge tube), and cut three slits in the filter to allow it to wrap around these components. Important: Cut the media

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from the edges to the openings to assist with wrapping. Cutting can be done with scissors, shears, or utility knife. Below is an example of how the media should be cut to fit properly into the sump pocket and around pipes/tubes.

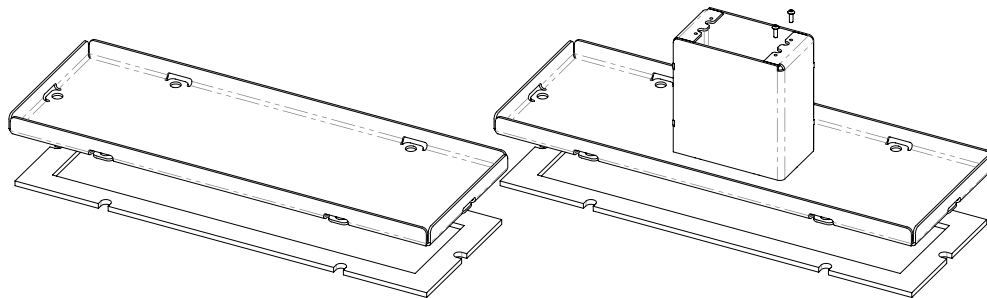


ACCESS PANELS

This panel provides access to the inside of the basin where utility connections will be made. It also provides routing of electrical cords for the pump and light. **Do not use power tools for hardware.**

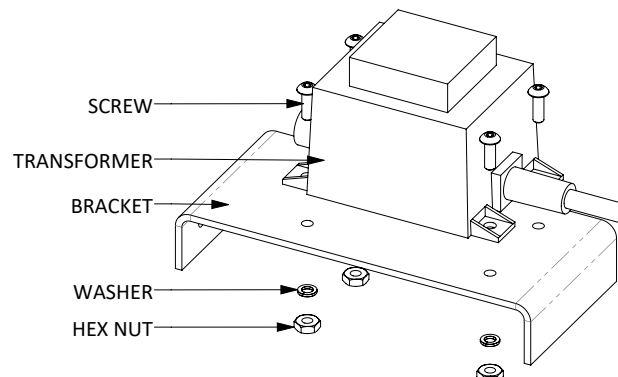
STEP 1 – Assemble Access Panel

The panel may come pre-assembled, however there may be some components that are still required (e.g. attach gasket to underside of access panel).



STEP 2 – Assemble Light Transformer

The light requires a transformer power source. The transformer will attach to a bracket that then attaches to the access panel using screws, lock washers and hex nuts.



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STEP 3 – Connect Power

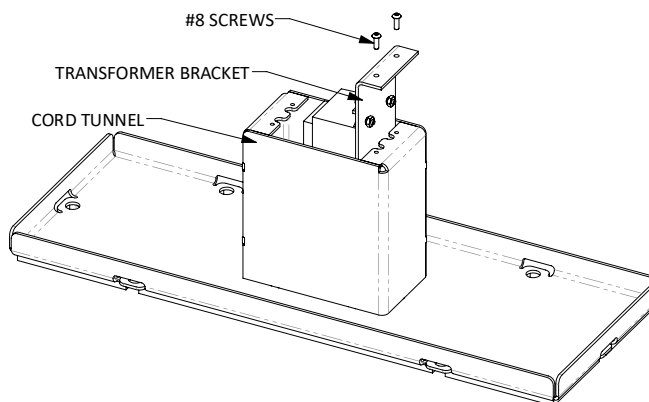
Prior to attaching the access panel to the bottom of the basin, feed the power cord from the transformer through the panel into the basin and plug into the light outlet underneath the unit.

NOTE

Before plugging the transformer into the outlet, create a cord loop that extends below the outlet. This will allow any collected moisture or water to drip off the cord, preventing water from reaching the outlet.

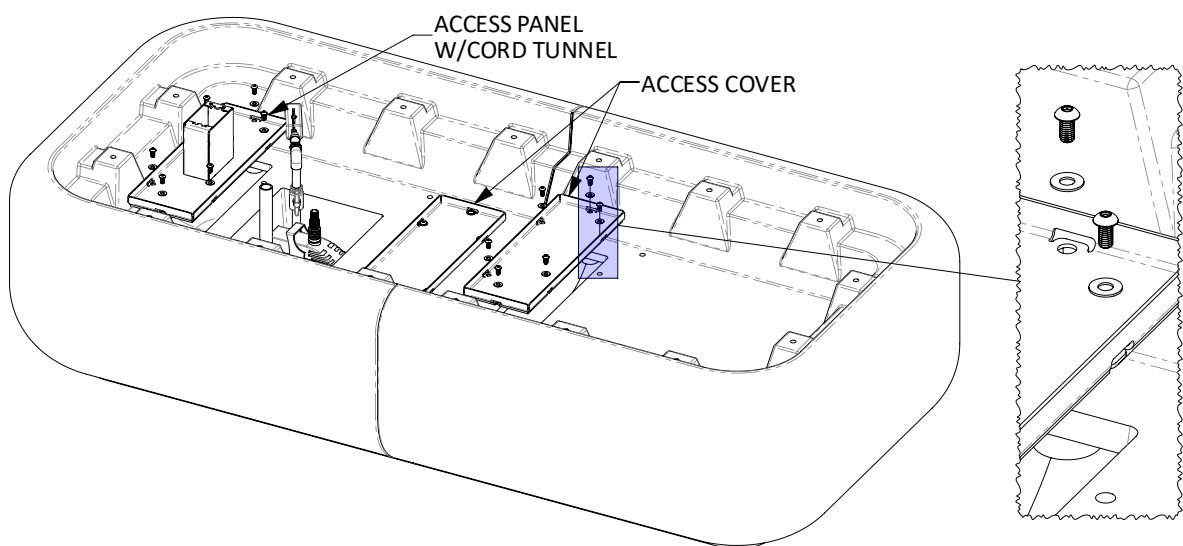
STEP 4 – Attach Transformer Assembly to Access Panel

Insert the transformer assembly from Step 2 into the cord tunnel of the access panel. The bracket from the assembly should rest on the outer top flange of the cord tunnel and then secure with two #8 screws.



STEP 5 – Install Panels to Basin

To install the access panels into the basin, clean the ledge of the access hole of any dust or debris. Place the access panel assembly into the pocket on the floor of the basin as shown. Install six screws and washers for each to secure the access panels. When tightening the screws, move from one screw to another to provide even pressure and to ensure a good seal all around each panel.



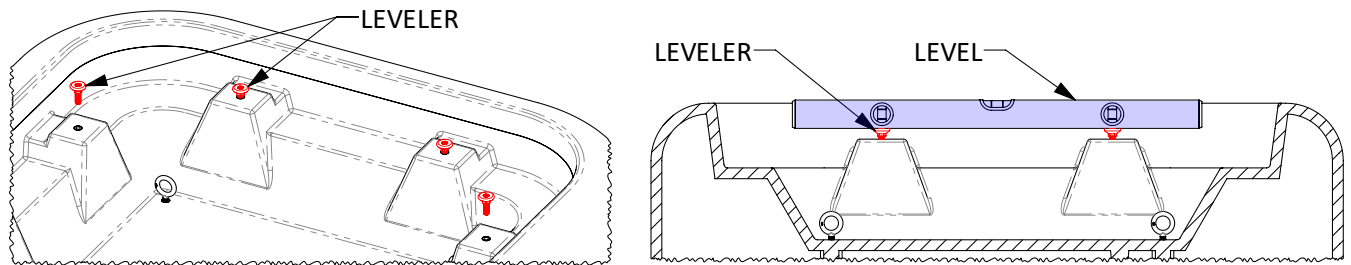
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TRAY LEVELERS

Install tray levelers into the basin pylons (qty. 8 per basin). Do not fully thread the levelers into the threaded inserts. Distance from the top of the basin pylons and the top of the levelers should be approx.. $\frac{3}{4}$ ". This is a good starting point for completing the leveling of the tray later.

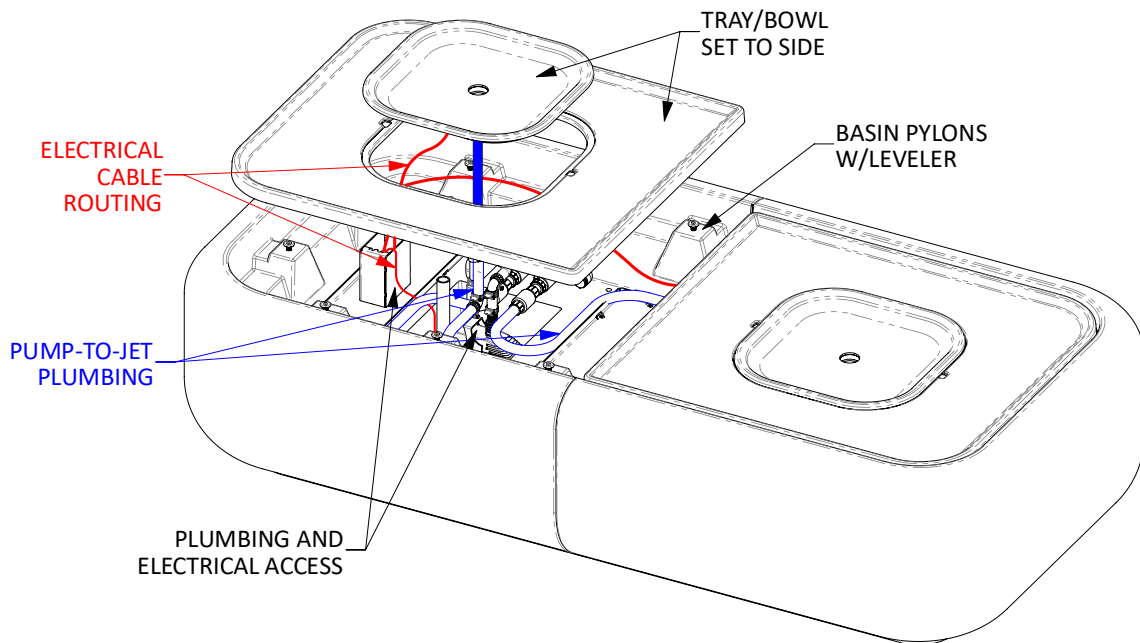
Pro Tip: Place a level across two levelers and adjust to level. Do this across all levelers in pairs to provide a level starting point before placing the water tray.



WATER TRAY

Note: The water tray is designed to rest upon the pylon levelers within the basin reservoir with a specific orientation (finger holes should be in line with the access panel opening and sump pocket). Ensure that all plumbing and electrical connections are made prior to final securing of tray and water bowl.

Prior to installing both tray and bowl, both components should be placed upon the water feature basin but shifted to one side or corner for access to the plumbing area and electrical cable for routing. Care should be taken to make certain the tray and bowl are well supported along at least two sides of the basin.



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STEP 1 – Position the Water Tray

Place the water tray so that it rests securely on the pylons within the basin reservoir.

STEP 2 – Adjust the Tray's Position

Ensure that the tray is positioned so that there is a consistent gap between the water tray and the perimeter of the basin. Adjust as necessary for uniform spacing.

STEP 3 – Level the Water Tray

If the tray is not level, you may need to adjust the levelers one at a time to achieve level. To do so, reach through the center opening of the tray and turn the leveler right (clockwise) to lower the leveler and left (counter-clockwise) to raise it. It may be necessary to slightly lift the tray to raise the leveler. Turning the leveler can be done by hand or using a ½" open-end wrench or adjustable crescent wrench.

Level Checking: Use one of the following methods to check the tray's level. A) Place a level across the top lip of the tray in multiple directions (e.g. front-to-back and side-to-side). B) Measure the distance from the top edge of the basin to the top edge of the water tray, ensuring a consistent distance all around the perimeter (assuming the base is level).

NOTE

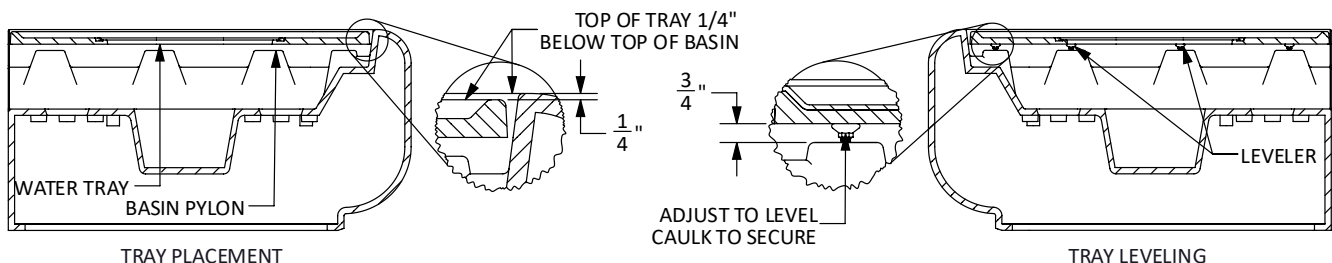
Before final positioning of the tray, it may be necessary to connect the light power cord to the transformer contained within the access panel. Access to this connection will be limited once the tray and bowl are in place.

STEP 4 – Secure the Water Tray

After leveling, the water tray may be secured in place to reduce or prevent movement. The tray does not require permanent anchoring, as it may need to be removed for maintenance. A reminder that the tray may require removal at a later date for maintenance.

PRO TIP

Possible Securing Method: Apply a few small dots of caulk/sealant (e.g. Sikaflex 1A, silicone, etc.) on the tops of the levelers where the tray will rest. Once the caulk is set, this will hold the tray from movement while allowing for future removal when needed. Avoid using excessive caulk, as this could make it difficult to remove the tray for maintenance.



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WATER BOWL

Each water bowl contains the light/jet, will rest in the middle of one of the water trays, and is the origin of the water ripple pattern of the water feature. It is also the access point for some general maintenance and therefore, may need to be periodically removed from the tray.

To install the light/jet into the center of the water bowl, you will need the following materials: water bowl, light/jet, $\frac{3}{4}$ " flexible pipe, hose clamp, and waterproof caulking (e.g. Sikaflex 1A, clear silicone, etc.).

NOTE

A dry-fit is recommended before final installation to ensure proper fit and alignment.

STEP 1 – Insert and Connect Light/Jet

Insert the light/jet connector at the end of the cord through the light gasket and through the center hole of the water bowl. Place a small bead of silicone caulk on the underside of the light (at the largest diameter) then push the light gasket up to the underside of the light aligning the notch in the gasket with the cord exit on the light. Place a small bead of silicone caulk on the underside of the light gasket. Align the cord with the notch located at the bottom of the hole and push the light into the pocket to ensure a good seal. Securely connect to the transformer at the access panel. If the water tray is installed, it may be necessary to remove the access panel from the base of the reservoir to make the connection. Once connection is completed, reattach the access panel or ensure that the connector is well within the access panel opening. Coil the remaining light power cord around the cord tunnel of the access panel or coil and secure (with zip tie) the coil then place the coil of wire away from other components within the reservoir.

STEP 2 – Install Light/Jet

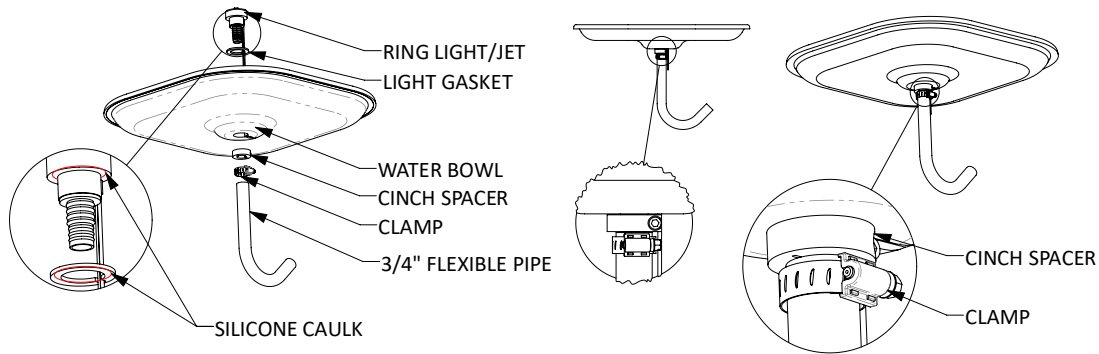
Feed the light/jet power cord through the flat rubber washer and through the opening in the bowl. Place a small bead of caulk (silicone) around the perimeter of the shelf in the light/jet pocket. Press the washer into the pocket aligning the notches in the washer and pocket. Place a small bead of caulk around the perimeter of the rubber washer and then place the light/jet into the pocket aligning the power cord with the notches. Feed the power cord through the cinch spacer (split clamp) and push it up against the underside of the bowl while keeping steady pressure on the light/jet from the top side. Tighten the screw on the cinch spacer to lock the light/jet in to place.

NOTE

Alternatively, the flexible pipe could be detached at the elbow fitting coming from the manifold.

Reattach the flexible pipe to the barb fitting on the light fixture. Move the hose clamp into place at the fixture barb fitting and tighten it. Ensure that the assembly remains snug and secure against bottom of bowl.

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STEP 3 – Prepare the Tray and Bowl

Clean the underside edge of the bowl of any dust or debris. This is to ensure the gasket material adheres properly and creates the proper seal between it and the tray.

STEP 4 – Connect Plumbing to Light/Jet

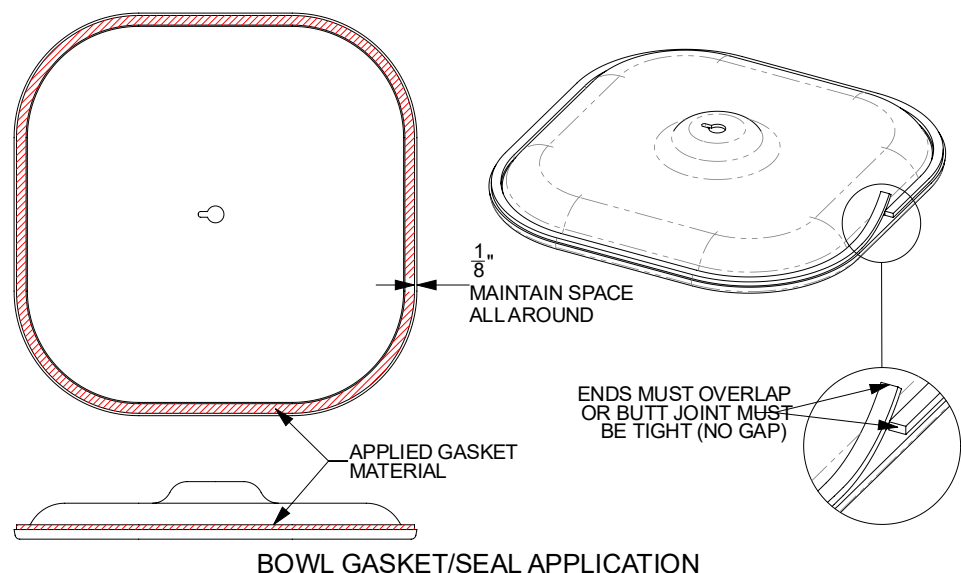
If not already done, place a hose clamp over the flexible pipe coming from the elbow fitting that comes from one of the outlets of the manifold (outlet = ball valve/check valve). Ensure that the flexible pipe fits snugly against the underside of the cinch spacer on the back side of the bowl.

STEP 5 – Place and Secure the Water Bowl

The gasket material for the bowl can be installed after the light/jet connections are made however, it will be easier to accomplish without those attachments. Place the bowl upside-down on a clean, flat surface (a piece of plywood placed on top of the basin). Starting roughly in the center along a flat side, begin removing the adhesive back cover from the gasket material and place it near the outer edge of the bowl (approx.. 1/8" away from edge). Slowly continue to place the seal along the perimeter of the bowl maintaining the space from the edge.

Work carefully around the curves. The gasket material is very pliable and should easily conform to the curve. If a section is not seating properly on the bowl edge, a portion of the seal can be lifted and pressed back into place. When you reach the starting point of the seal, cut the gasket material a little longer than needed. Take care to place the seal up to the start point and cut the material again, but with a very slight overlap with the start. Since the material is very pliable, the ends can squish together to eliminate any gap that might occur.

With the seal fully around the perimeter of the bowl, go back over the entire seal pressing firmly, but not hard, to ensure good adhesion to the bowl.



MONTARA WATER FEATURE: DOUBLE Installation Instructions



OPERATION

Refer to the “Montara Water Feature General Operation and Maintenance” document (48-02733-00) for details on operation and maintenance.

CLEAN-UP

DUST

Remove all or as much dust from the assembly and installation. This can be done with a shop vacuum, small stiff-bristle brush, damp cloth, or other means.



Dust and hard particles can damage pumps, reduce their lifespan, or cause issues with the flow of water to the jets and the action of the jets.



SEALANT

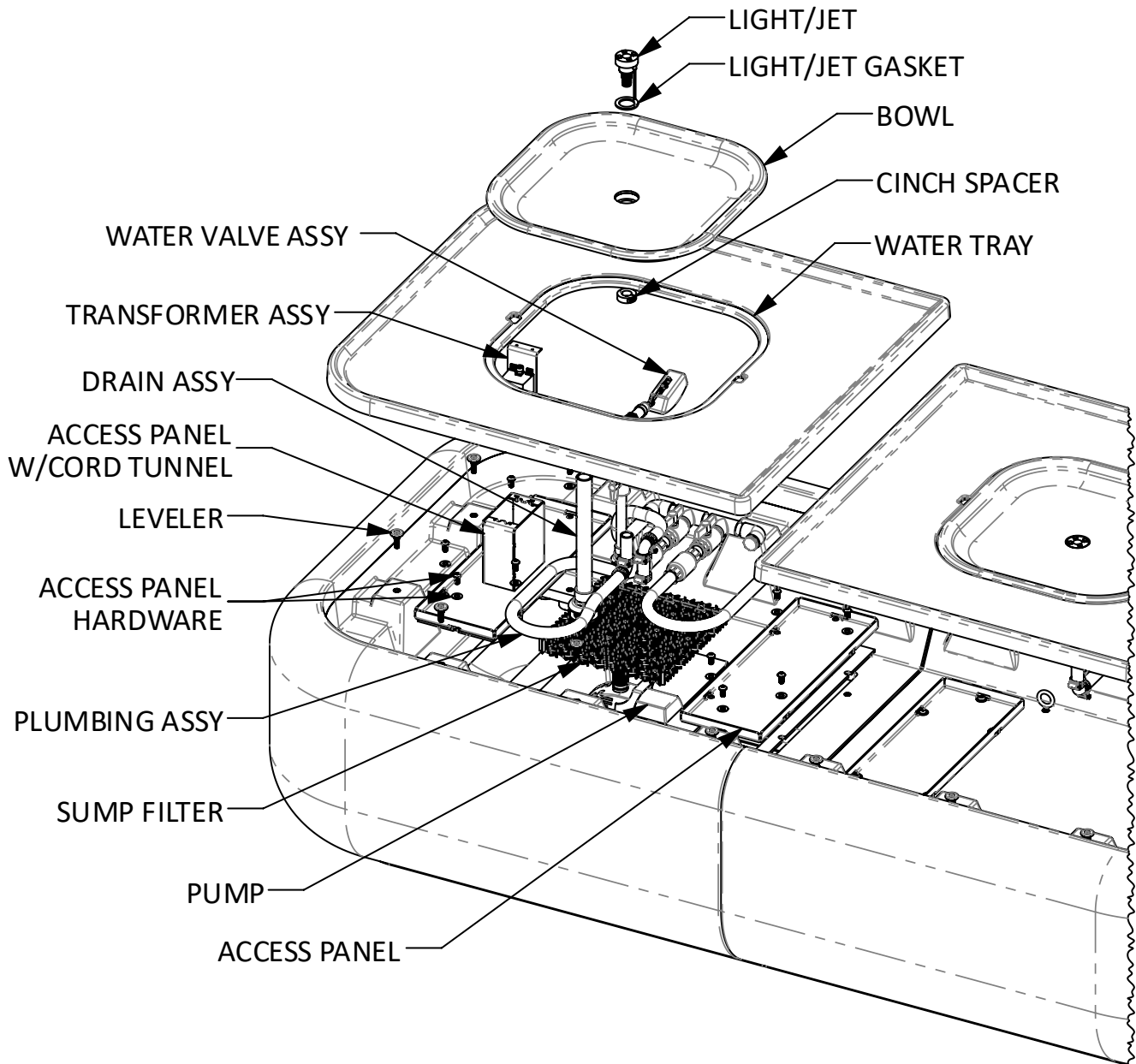
Remove any excess sealant from the components or assembly (access panel, bulkhead fittings, etc.). This can be done with a clean, soft cloth while sealant is still fresh or, if dried, a putty or utility knife. Caution should be used not to damage any cosmetic or sealing surfaces.

MONTARA WATER FEATURE: DOUBLE Installation Instructions



UNIT OVERVIEW

A reference view of various components of the double Montara Water Feature.



MONTARA WATER FEATURE: DOUBLE Installation Instructions



TROUBLESHOOTING

Symptom: Water not flowing through jet.

Potential Causes: 1) There is no power to the water feature. 2) There is no water in the reservoir of the basin. 3) The flexible pipe is not attached to the light/jet below the bowl. 4) The flexible pipe is not attached to the pump. 5) The pump has power but is not pumping.

Remedy: 1) Identify what is causing the no power situation and repair. 2) Verify that auto fill valve is working properly (valve is open, float is not stuck, etc.) and fill the basin reservoir with water (to appropriate level). 3) Attach the pipe to the light/jet per the above installation instructions. 4) Attach pipe to the pump per the above installation instructions. 5) Follow the procedures in the maintenance instructions to replace the pump.

Verify that there is water in the reservoir of the basin. Verify that the flexible pipe is attached to the light/jet below the bowl. Verify the flexible pipe is attached to the pump.

Symptom: Water not flowing evenly over all edges of the tray.

Potential Causes: 1) Base not level. 2) Tray not level. 3) Tray surface creating surface tension with water.

Remedy: 1) Ensure bases are as level as possible with foundation and/or shims. 2) Ensure tray is level by adjusting levelers on underside of tray. 3) Break surface tension by using fine wet/dry sandpaper and lightly sanding along top edges of tray (with water inside). Let turbulence subside and check if water is flowing over edge. If not, repeat until it does.

Symptom: Water leaking through base.

Potential Causes: 1) Openings in basin not properly sealed.

Remedy: 1) Ensure all openings are properly sealed including water inlet and drain bulkhead fittings. 2) Ensure that all connections are properly sealed (e.g. flexible pipe to stub outs and bulkhead fittings). 3) Ensure access panel and gasket are tightly bolted to the basin.

Symptom: Water doesn't remain in bowl/tray once pump/jet is turned off.

Potential Causes: 1) Plumbing components between pump and jet not properly sealed. 2) Gasket between bowl and tray is damaged.

Remedy: 1) Ensure all joints between components (pipe, ball valve, check valve, etc.) are properly secured and sealed. 2) Verify that bowl gasket is in good condition and replace if it is damaged or has taken a hard set (no longer "conforms" to surface variations). 3) Check valve between ball valve(s) and jet could be clogged with debris that would. Although most debris will be filtered, some smaller particles may make it through the pump and to the check valve. The debris may be cleared with a blast of air in the water line in this area.