

# Mod-U-Dock Assembly

## STATIONARY DOCK SYSTEM

### UNPACKING AND PRE-ASSEMBLY

1. **UNPACKING:** Remove modules from pallet and layout in numeric order if possible. The module number can be found on the side or end of each module. All brackets, hardware and accessories are packed inside the modules starting with modules closest to the bottom.
2. **LEG ASSEMBLY** – (9/16" socket): Locate all legs and footpads before starting assembly. Set footpad on a firm, flat surface and slip galvanized leg into the collar – Bottom of leg should be flush with bottom of footpad. (\*1) **rivers & tides**. Tighten set screw to secure. Complete all leg/footpad assemblies. Refer to drawing for "*suggested leg length*". Place a completed leg assemblies, of the specified length, next to each module. Typically the first module will have four (4) legs and the rest will have two (2).
3. **BRACKET ASSEMBLY** – (3/4" socket): Refer to drawing for correct bracket designations – "A", "B", "C", "D" or "E". Select the appropriate bracket and place near the leg assembly at each module. The brackets have been labeled for your convenience. Using 3/4" socket adjust the set screw on the bracket sleeve to allow the leg to slide through. Slide bracket onto leg assembly. Refer to drawing for "*estimated water depth*" and adjust leg so that the distance between the top of the footpad and the bottom of the bracket sleeve is approximately equal to the correlated water depth. Snug set screw with wrench – DO NOT OVER TIGHTEN. Finger tight plus a 1/4 to 1/2 turn with the wrench should be sufficient. These will be fully tightened in the final adjustment process.
4. **BOLT ASSEMBLY** – (no tools): Locate the bracket bolt package(s). The package contains the required number of 1/2 x 2 1/2 hex head bolts, 1/2 x 1 1/4 white PVC trim washers, and 1/2" flange nuts. Pre-assemble the bolts by slipping a PVC washer on each bolt.
5. **BRACKET INSTALLATION** – (no tools): Refer to drawing and make sure the correct bracket assembly is located as shown. Look for the label with the module number designation. Lift this end of the module and slip the bracket assemblies into position. Insert a bolt assembly in each bracket and install flange nut finger tight. DO NOT TIGHTEN. If jobsite space is available, install the bracket assemblies on all of the modules. If not, complete as many as space allows and start module installation. Stage modules, bracket assemblies and bolt kits for later completion.
6. **ACCESSORY INSTALLATION** – (1/2" and/or 9/16" socket): Refer to drawing of location of accessory items (bench, ladder, mooring cleats, module hinge kits, etc). Install accessory item(s) on modules after installing the bracket assembly and before putting the module in the water. (\*2) **hinges**

# STATIONARY DOCK

## DOCK INSTALLATION

1. **SHORELINE TRANSITION** – (no tools): If a hinged transition ramp or module with hinge kit is included in the dock package, this will be the second module installed. Stage on shoreline accordingly.
2. **FIRST MODULE INSTALLATION** – (no tools): The first module to be installed will be the module with four bracket assemblies. This module will normally have “A” brackets on the shore end and “B” brackets on the outside end. Carry module to the water and position as desired. If a transition ramp or module with hinge kit is being used, be sure to position module to accommodate its proper installation. The module should be reasonably level. At typical installation will have the bottom of the bracket sleeve approximately ½” above the water. This dimension will obviously be modified to accommodate unusually high or low water conditions. Using the bottom of the bracket sleeve and the surface of the water as an index eliminates the need for a carpenter's level to adjust the dock. If the module is severely out of level or alignment, use the bracket sleeve set screws to adjust. This can be accomplished as follows:
  - With ¾” wrench in one hand, place one foot on the footpad and use your other hand to support the module. Loosen the set screw and raise or lower the bracket assembly so that the bottom of the bracket sleeve is above the surface of the water approximately ½”. Then retighten set screw.
3. **SHORELINE TRANSITION INSTALLATION** – (no tools): If a transition ramp or module with hinge kit is used, set the ramp or module in position and align the module hinge barrels to allow for the installation of the stainless steel hinge pin. Adjust module positions as required and double check to make sure the first module is still reasonably level.
4. **SECOND AND SUBSEQUENT MODULE INSTALLATION** – (no tools): The second module to be installed will be labeled #2 and have 2 bracket assemblies installed on the end with the label. Carry the module into the water legs first and position in front of the first module so that the end without brackets can be inserted into the “B” brackets of the previous section. Adjust the legs if necessary and install bracket bolts with PVC washers. Install flange nut and tighten just finger tight. If height adjustment is required see #1 above. Look for the module with the next number and install it in similar fashion. Continue this process until the dock is completely installed. (\*3) deep water

## FINAL ADJUSTMENTS

1. **RE-LEVEL** – (¾” socket): depending upon bottom conditions the dock may settle unevenly during the course of installation. We recommend that after the initial installation is complete you walk on the dock to insure it settles completely. Now you can re-level the dock and secure the set screws. Start with the legs closest to shore and work towards the outside end. You should check to make sure the legs are totally plumb at the same time. After leveling a module, the bracket bolts can be tightened as well. Again, just snugly tighten the bracket bolts – the bolt should be through the nut by just a couple of threads. at the shore and If a hinged transition ramp or module with hinge kit is included in the dock package, this will be the second module installed. Stage on shoreline accordingly.

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2. **TIGHTEN BRACKET BOLTS** – (3/4" socket): After leveling a module, the bracket bolts can be tightened as well. Again, just snugly tighten the bracket bolts – the bolt should be through the nut by just a couple of threads.
3. **INSTALL POST COVERS** – (no tools): Make sure all of the legs are straight by sighting down the edge of the dock. Correct as necessary. Make sure the all of the legs are between 5" and 15" above the top of the dock. If the legs are too short they should be replaced with a longer leg. If they are too long, they can be trimmed with a hacksaw, sawzall or pipe cutter. After confirming that the legs are of the proper length, the post covers can be installed. The post covers have the same letter designation as the brackets ("C" and "D" brackets use the same cover and the "E" bracket does not have a cover). To install the cover, firmly wiggle the cover to get the slot in the cover started on the bracket, then firmly push the cover down until the bracket set screw pops through the access hole in the cover. Once the cover is on, it is very difficult to remove. We find it easiest to completely remove the bracket set screw and then remove the cover.
4. **THAT'S IT, YOU'RE DONE** - We hope you will stand back and appreciate your efforts, and enjoy your dock for many years to come.

## FOOTNOTES

- (\*1) **LEG ASSEMBLY** - When installing the dock in an area where currents exist such as rivers, tidal areas, etc., the legs should be slipped through the footpads so that the leg protrudes through the bottom approximately 6"-8". This dimension will vary with conditions. The variables to be considered are current strength and bottom conditions.
- (\*2) **ACCESSORY INSTALLATION** - When installing a module hinge, the hinge plate goes on the outside of the bracket – typically an "A" bracket. If the bracket bolts are already installed, they can be re-used, but the flange nut should be removed and replaced with the large diameter washer and nylock nut.
- (\*3) **MODULE INSTALLATION** - When installing a module in deep water, the use of an inner tube (truck size) or similar device will make the job much easier. When a floatation device is used you will also need to re-adjust the bracket position on the legs. In water deeper than 5', we suggest that the legs be set at the 3-4' mark. This means that the major portion of the leg will be above the dock making the module slightly top heavy. **USE CAUTION.** When installing this section, carry the module assembly into the water and slide the inner tube under the end with the legs.

**This process required two persons. BE SURE THAT ONE PERSON IS COUNTER-BALANCING THE MODULE AS IT FLOATS ON THE INNER TUBE. Failure to so will result in the module somersaulting off the inner tube and coming to rest, up-side-down on the bottom of the lake.**

The module can be floated into position. When in position lift the module into the brackets of the previous section and insert the bolts. A person on the dock, assisting in this process, is suggested. After the bolts have been installed, loosen the set screw on the legs and let them drop to the bottom. If the floatation device is of the proper height, the legs should not need much adjustment. After leveling the end of the dock and securing the set screws, slide the floatation device out from under the dock.