AQUA DELUXE *Slide Instructions*

Please read the entire instruction before beginning installation.

If you call us, please use these names to describe these parts.

Call us at 360-721-0779

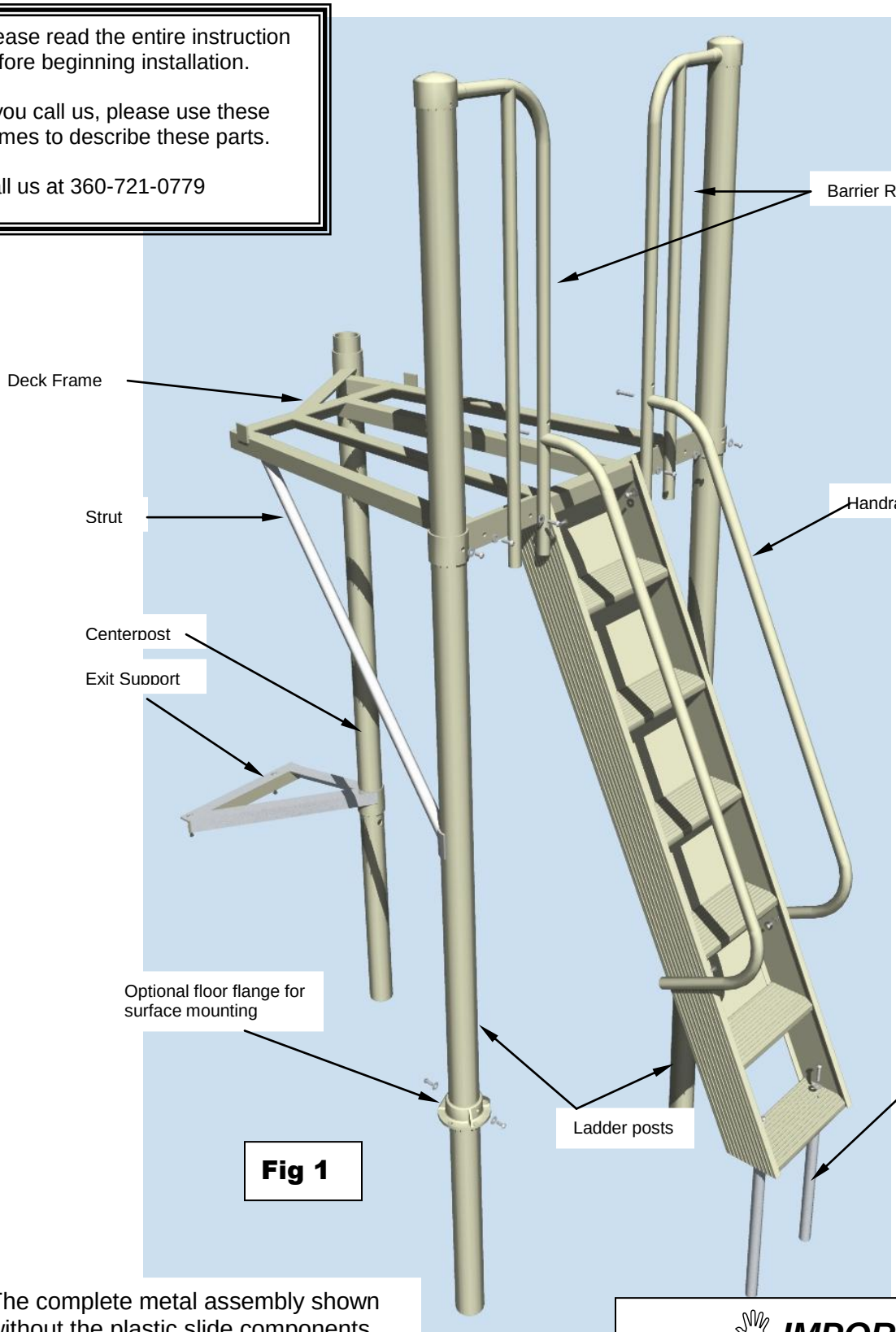
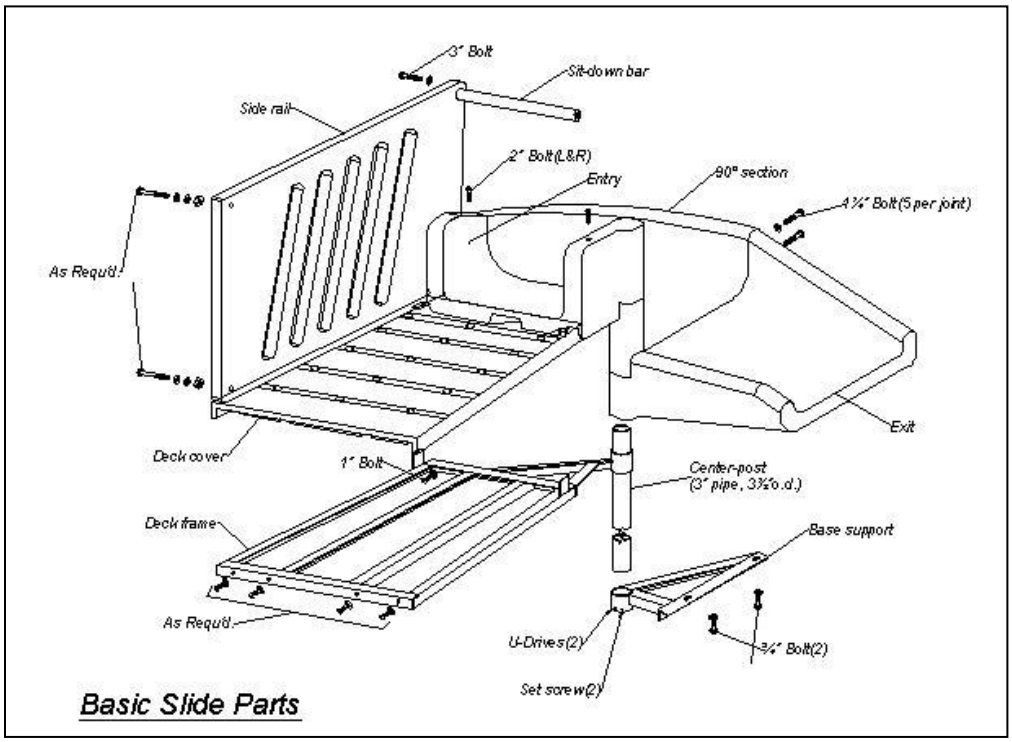


Fig 1

The complete metal assembly shown without the plastic slide components.

IMPORTANT

Stainless steel bolts gall very easily. Use a lubricant or threadlocking compound.



Some General Information

Upon receipt of your slide, examine it for damage. Do not sign for a damaged consignment unless deficiencies are noted on the shipper's bill of lading. Notify us ASAP.

As soon as practicable, open packages and inventory for shortages and damage. It's better to resolve those issues before you start the installation, and before it becomes an emergency.

Suggested Centerpost setback is 22", resulting in the standard 8" (22"+8"=30") overhang of the Exit. Setback/Overhang can be adjusted to your need. Standard ladderposts are 44" apart.

Minimum water depth at Exit is 48". We can make some modifications to reduce the water depth, if necessary.

Standard installation has the posts buried 30" and mortared. Surface-mount installation uses our 'Floor-flanges' and S/S masonry anchors. If a 'Standard' installation is shaky, it's on us. If a Surface-Mount installation is shaky it's on you.

Your waterline should stub up about 8" from the Centerpost, in the direction of the ladder. It can be as small as ½".

Water nozzles are designed to emit 0.5gpm (max) each, and are adjustable. Replacement nozzles can be purchased from a local landscape/garden store or from SUMMIT-USA. They are shrub (end strip) sprinkler heads.

There are, in essence, eight basic parts to the Metal Assembly:

1) Ladder
2) Handrails (2 or 4)
3) Ladder Posts (2)
4) Barrier Rails (2)
5) Centerpost
6) Deck Frame
7) Exit Support
8) Strut

As a preliminary step it will be helpful to reduce the number of loose parts by making some sub-assemblies.

Fig 2

1. a) Install the metal barrier rails *(Fig 2),* one left and one right, onto the ladder posts *(Fig 3)* making sure that the threaded holes for the plastic siderails face inboard. Use ¾" bolts through holes in the 4" round socket, into the threaded holes in the post.
b) Drill 7/32" hole through the post caps *(Fig 4),* into the post, and install #14 'Type U Drive Screws (U-Drives).
c) Some installations may use a cross-brace (X-Brace). See separate instruction for X-Brace.

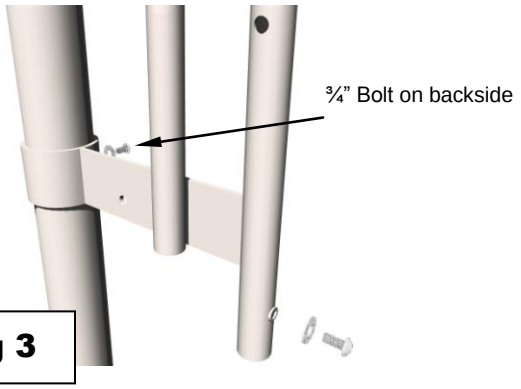


Fig 3

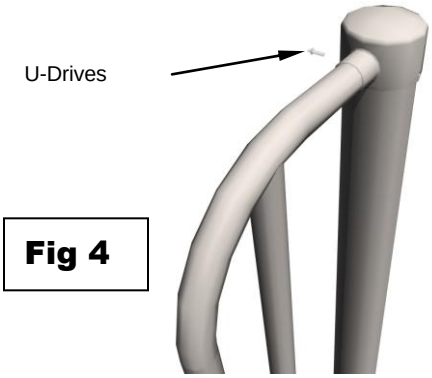


Fig 4

2. Attach handrails to Ladder stiles with ¾" bolts. *(Fig 5)* Install the ladder anchors (if used) under the bottom ladder tread using 2" bolts into the tubing connectors inserted in the ends of the anchors *(Fig 6).*

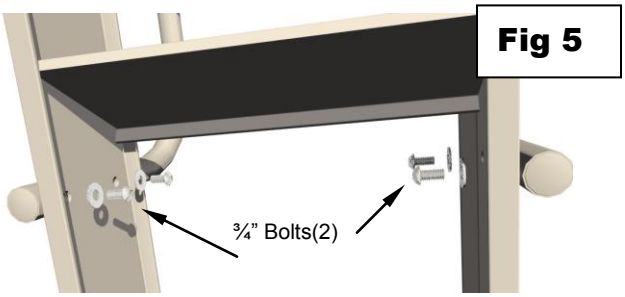


Fig 5

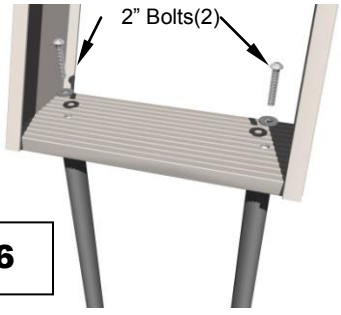


Fig 6

3. Layout post locations. Mark location of Centerpost, usually 22" from water's edge. Set the socket of the Deck Frame over the mark and use it to point to the two Ladderpost locations. At the wide end of the Deck Frame, measure from center, 22" each direction to locate Ladderpost centers.

4. Dig the centerpost hole and the two ladder-post holes (or install the surface mounting floor flanges). The depth of the holes should be 30", taking into account the thickness of the slab. If you are using surface mount, you must use a hammer-drill or roto-hammer to drill the ½" Ø holes for 'drop-in' masonry anchors. Install the three Floor-flanges, orienting for X-braces, if necessary.

Use a "punch-pad" at the bottom of postholes. This can be a piece of concrete or treated wood that will remain in the hole. The punch-pad will allow lateral adjustment of the post without disturbing critical heights. The top of the punch-pad should be located accurately using a transit or other leveling device. Additionally, there are "Finish Grade" stickers on the posts to aid in accurate depth measuring. Compensate for pool deck slope, considering the foot of the ladder, as well.

5. Install triangular exit support onto the centerpost *(Fig 7)* about 8" above the final grade indicator on the post. Tighten the two setscrews. ***They will be replaced by two U-Drives later, in step #12.*** The Exit Support may need to be turned, raised, or lowered, later. The 1" hole in the Centerpost is for the water line, and should be aimed toward the ladder.

Fig 7

6. If you are surface mounting, bolt the Centerpost to the Floor-flange by drilling three 21/64" holes and installing 3/8" self-tapping screws.

7. Assemble the slide onto the centerpost. Install the plastic slide EXIT module onto the centerpost, 8" above the pool deck, and bolt it to the exit support using ¾" bolts. Apply gasket in each joint. Install 90° sections, bolting them together with 1¼" bolt as they are installed.

The top 90° section is different from the others. It has a 4" (vs. 3½") *hole in the top of the post cover, and a notch for the deck frame. It also has a threaded insert in the sliderail for hood attachment.*

Do not install the Entry section at this time. *The Entry section covers and secures the deck frame, which will be installed in step #9.*

8. Insert the water tubing through the hole drilled near the bottom of the centerpost. It should protrude through the top of the centerpost. Reset the rubber grommet if it becomes dislodged.

Fig 8

9. Install the deck frame onto the centerpost *(Fig 8)* and support it with a temporary prop.

10. Install ladderposts, right and left, into their holes (or surface mounts) and bolt barrier rails to deck frame (Fig 9) using 1¼" bolts and NYLOC nuts. LUBRICATE THREADS. If surface-mounting, drill 21/64" holes through the floor flanges for self-threading bolts.

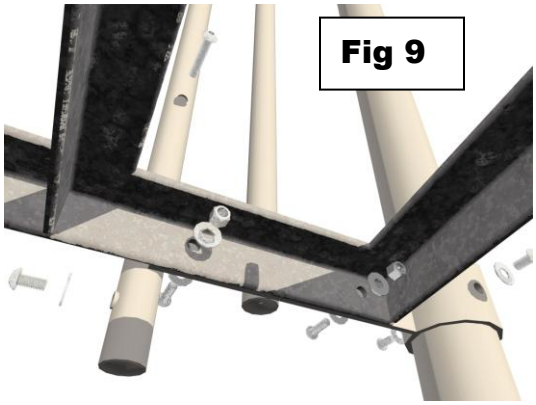


Fig 9

11. Check all adjustments. Confirm that the **deck frame is level** and posts are plumb. If necessary, adjust the plastic slide vertically and rotationally by loosening the setscrews in the exit support. ***The deck frame must be level*** longitudinally, and posts plumb, to ensure proper fit of all succeeding components.

12. Secure the exit support with two U-drives (Ref. Step #5). Drill 7/32" hole into the centerpost and set the U-drives with a hammer. At this point the setscrews become redundant and no further adjustments are possible. ***Remove and discard the setscrews.***

13. a) Dig the hole for the ladder anchors and install the ladder assembly. (Or use appropriate surface mounting hardware).
b) Use ¾" bolts through the ladder stiles into the threaded holes in the barrier rails *(Fig 10).*
c) Use 2" bolts, without washers, through the barrier rails into the tubing connectors in the ends of the handrails.

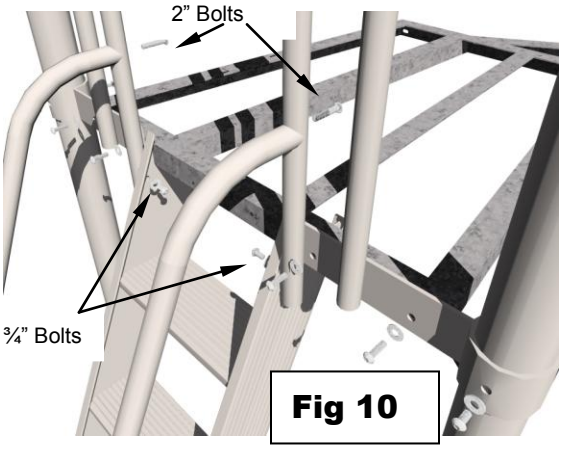


Fig 10

14. Install the slide Entry section, plastic Deck Cover, and Strut. Align Deck Cover and Entry vertically using 1¼" bolt through the Strut, the slotted hole in the front member of the deck frame, and into the threaded insert in the plastic Entry module. Attach the lower end of the Strut to the ladder post using #14 U-drives.

15. Complete X-brace installation.

16. a) Install the plastic siderails using 2½' bolts into the threaded holes in the ladder posts, **first**. Then bolt into the slide entry section using 2" bolts (no washers).
b) After completing the plumbing installation, install sit-down bar and hood with 3" bolts through siderails, 1½" bolt into the outer rail of the top 90° section, and 1½" bolt into the Entry module. Spray nozzles will need adjustments during final checks.

17. The slide requires electrical bonding. Use the grounding lug provided and mount it to any convenient piece of metal on the slide. Connect to your bonding grid or ground rod with a minimum #8 copper wire, bare or insulated. (NEC 680-22)

18. Mortar excavated holes and install safety surface material, if used.

19. Closeout the installation. Check all fasteners. Touch up paint scratches.

INSTALLING SLIDERAIL EXTENDERS

Overview

The rail extenders are in two distinct shapes. Most of the pieces are 'Stretchers', stretching from the slide hood to the 'End Cap'. The End Cap finishes the rail extender at the slide's exit, with its blunted end. The rail extenders are installed with screws and 'finish washers'.

Tools needed

Screwdriver (cordless?)
Rubber Mallet
Squeeze-type bar clamps or rope
Ladder
Duct tape

Preparation

If you need to work on the slide bedway, install several clamps on the sliderail to act as footholds to keep you from sliding while working. Or, tie a rope at the top of the slide and use it to lower yourself while you work from top-to-bottom in the slide. Use duct tape to dam the end of the slide. You *will* drop things and they *will* end up in the pool.

Installation

Set the first Stretcher in place at the top of the sliderail and use one of the 2½" screws at its lower end to attach it to the slide. You may need the rubber mallet to coax it home. At the upper end, use a 2½" screw with nylon finish washer to attach to the hood. On the outside of the Stretcher are 3 recess landings for 1¼" screws and finish washers. Successive Stretchers attach in the same fashion, as does the End Cap, except delete the lower end screw from the End Cap.

Maintaining the unit

The plastic is durable and metal parts are powder-coated for longevity. Maintenance should require little more than occasional cleaning, however, check the slide periodically.

- ❑ Check for loose or missing fasteners. For replacement parts, contact your dealer.
- ❑ Check for loose masonry anchors, or cracked concrete around them.
- ❑ Shake the structure. Does it move or rattle?
- ❑ Check the paint for chips and scratches or any indications of rust. Touch-up paint is available through your dealer.
- ❑ Check for cracked or broken welds.
- ❑ Replace loose non-slip tape.
- ❑ Winterize the plumbing.
- ❑ If damage occurs, any part can be repaired or replaced. Contact your dealer.

AQUA DELUXE 720˚ & 630˚ X-BRACE

The X-Brace performs two functions;

1. It acts as a shear panel between the Ladder Posts, having the effect of shortening them and decreasing their lever arm.

2. It allows the Ladder Posts to be cut and spliced back together, facilitating shipping and handling.

Set both of the lower post sections in their excavated holes.

Assemble the lower Posts and X-Braces as shown in the picture, with 6” sockets on top. The midpoint of the 6” socket should align with the lower post top.

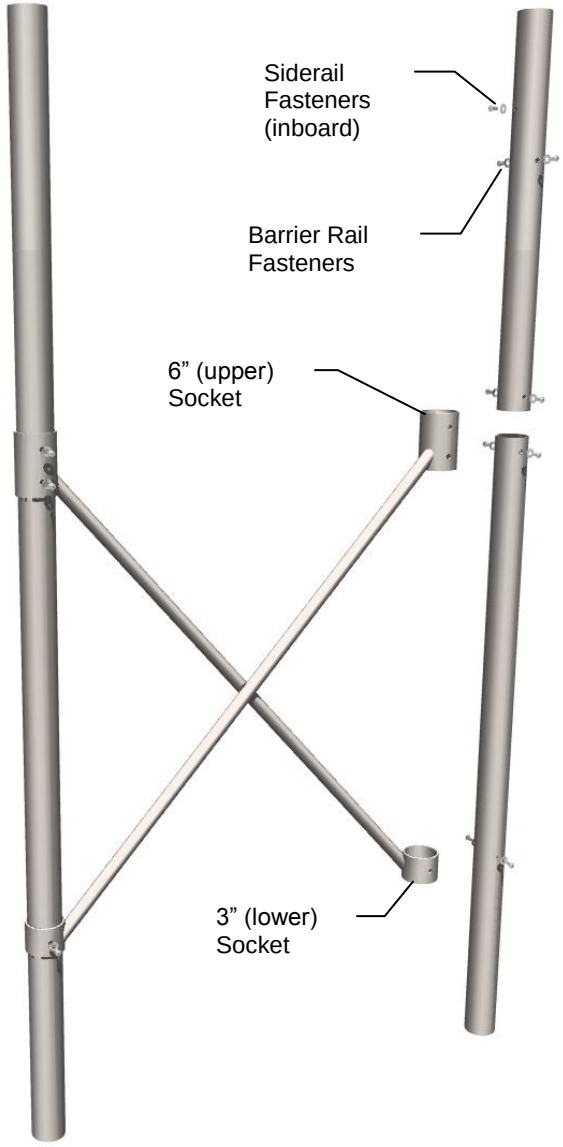
Drill 21/64” holes through the sockets and through the posts and secure with self-threading bolts.

Check that posts are plumb and level, and properly spaced 44” oc, then secure the lower sockets with self-threading bolts.

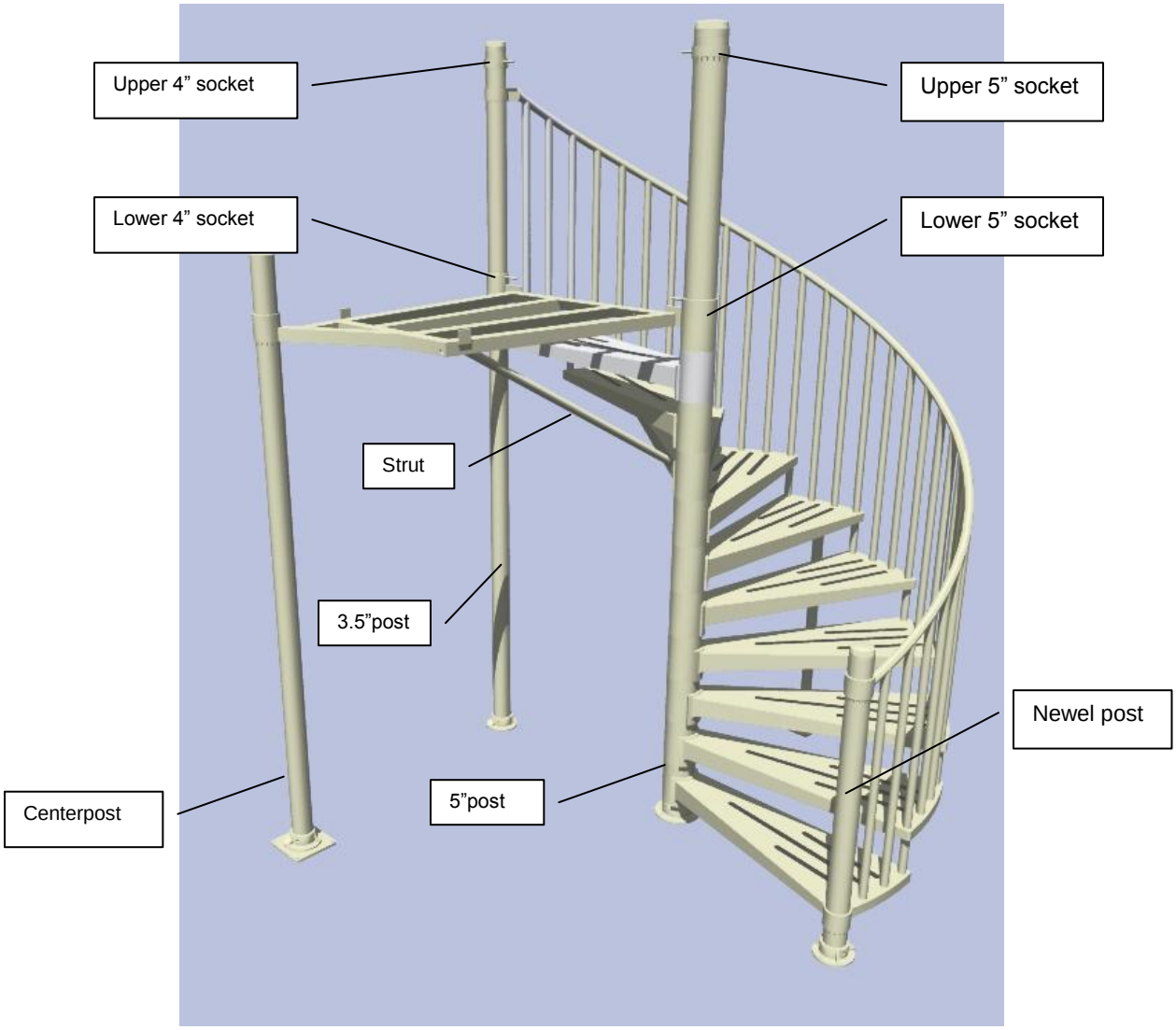
Set the upper ladder post sections into the 6” (upper) sockets of the X-Brace. ***Do not secure them with bolts, yet***.

Complete the installation of the Aqua Deluxe Slide and recheck post plumb.

Now secure the upper post sections to the 6” X-Brace socket with self-threading bolts.



ALTERNATE INSTRUCTIONS FOR OPTIONAL SPIRAL STAIR



If you are using the spiral stair, there are two major changes in the installation. Most other mechanical methods remain unchanged from the standard ladder instruction.

a) Riser height is 8", so finished deck height will be a multiple of 8". In the case of the Aqua Deluxe 450°, for example, finished deck height is 88" measured at the 5" post. This requires setting the slide exit support at about 12" above the pool deck, rather than 8" as mentioned in ***step#5*** above. For the AD 360°, deck height is 72", so use the 8" measurement.

b) We substitute a 5-inch diameter post for one of the ladderposts. Post locations are established as previously described, except the measurements are 22¾" for the 3½" post and 23½" for the 5" post, measured from the center, and along the back of the deck frame.

**This instruction assumes the centerpost, exit support, and slide modules have been installed.

1. Dig holes or set the appropriate floor flanges with masonry anchors.

2. Set and bolt the posts in place and slide the lower 4" socket onto the 3½" post and bolt it to the deck frame, first lubricating the bolt.

3. Now load the stair treads onto the 5" post, noting that the **bottom tread** is distinct. Rotate the treads into a balanced load configuration to avoid toppling the post.

   Refer to the picture for part identification

4. Slide the lower 5" socket onto the 5" post until it rests on the tread stack, and bolt it to the deck frame, first lubricating the bolt. <u>This is the main reference height and is unchangeable.</u> Check the deck frame for level. Raise or lower the slide on its centerpost, if necessary, to level the deck frame.

5. When the deck frame is level in both directions, Set U-drives in the Exit Support and the lower 4" socket previously installed on the 3½" ladderpost.

6. Starting at the top, rotate stair treads into position and insert the spacer balusters loosely between heel and toe of successive treads. Make sure spacer balusters are plumb.

7. Position the spiral handrail, sliding the upper 4" socket over the 3½" post and, starting at the top, screw spacer balusters into all handrail balusters. (This may have to be accomplished sequentially as individual spacers bind) The entire assembly will be drawn into a smooth-flowing shape during this process, stiffening it.

8. Set the newel post and its floor flange in place, temporarily. Install 1½" bolts through the treads into the balusters, finger-tight.

9. Re-check all of the spacer balusters for plumb. Use a rubber mallet or a size 10½ boot to adjust the treads until all balusters are plumb. Tighten all bolts.

10. Set the deck cover in place, and install the slide Entry. Slide the upper 5" socket onto the 5" post, and install the plastic siderails, using four 2" Button-head bolts.

11. Install the strut with a ¾" bolt into the slide entry and U-drives into the spiral stair socket.

12. Permanently install the newel post through the handrail socket, through the bottom tread socket, and into the 3" floor flange. Mark and install masonry anchors (minimum 2 holes) and the newel post floor flange.

13. Set all three post caps in place. Post caps, and all other 'slip' fit style connections including stair treads can now be 'hardened' with #14 U-Drives.

14. Install the 2" stabilizer leg under the appropriate tread. It consists of post, Tee-plate, pipe-base, masonry anchors (2), U-drives (2). Remove a baluster bolt and bolt-in the Tee-plate. Plumb the post and mark through the post-base for 2 masonry anchors. After re-installing the post and tightening all bolts, use two U-drives to complete the installation.