

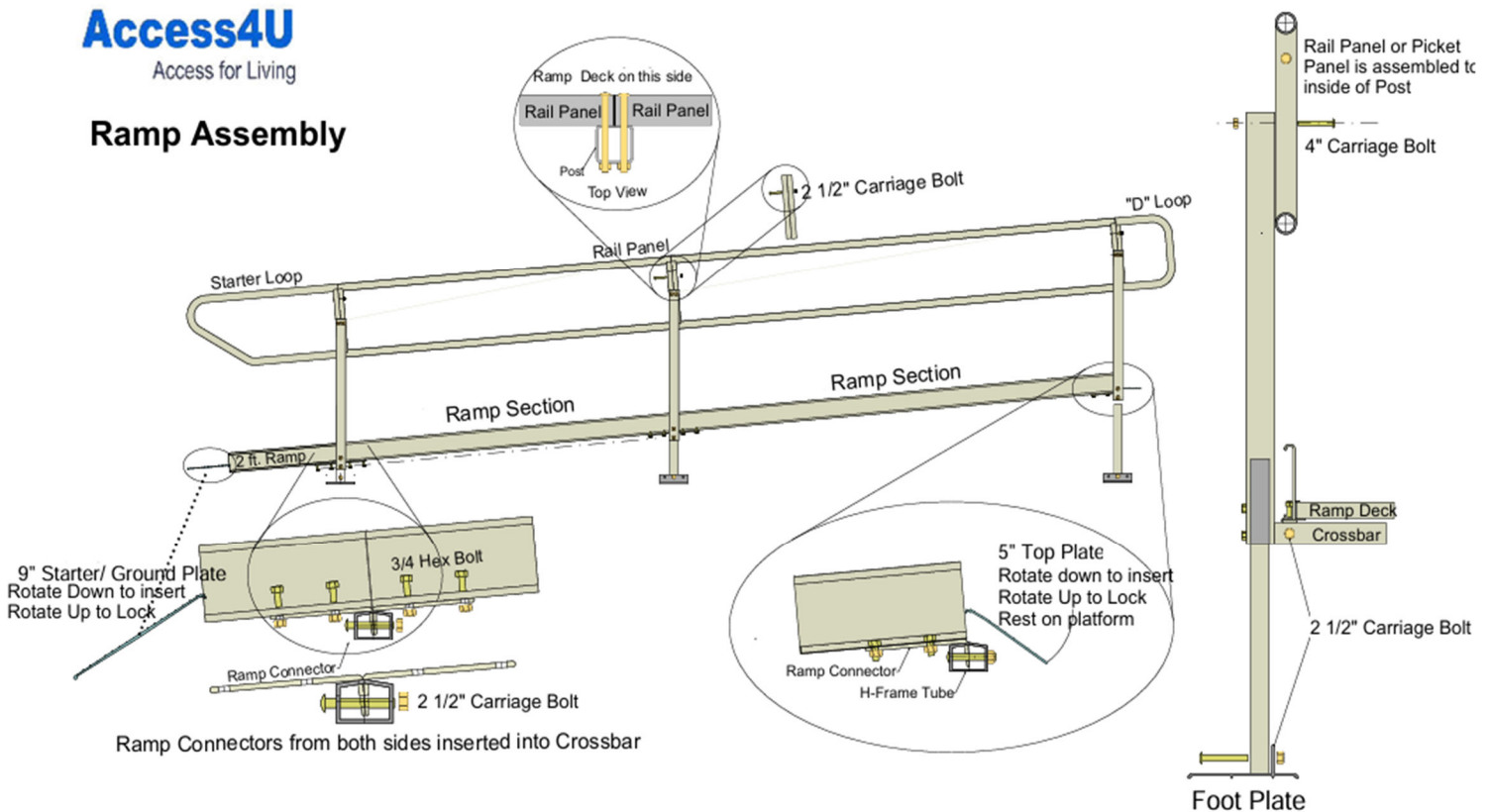
# Ramp Assembly

## Tools you will need:

- Ratchet or impact wrench - ½ inch with deep socket.
- Open end wrench - ½ inch
- Screwdriver
- Mallet
- Metal file, grinder with cut off wheel may be helpful to modify for site conditions.
- Level for checking level and vertical. (There is also a leveling app for phones.)
- Device for measuring angle of such as Digital Level
- Drill/driver for self-tapping screws (No. 2 square)
- Metal saw or grinder with cut off wheel in case legs or handrails need to be shortened.

Anchoring tools required for site conditions – may include hammer drill and drivers.

**Please see diagram below for a guideline of how the ramp will be set up.**



See pages 2-8 for Instructions.

See pages 9-10 for pictures of the parts with descriptions.

**Step 1:** Unwrap all parts/ pieces and lay them out.

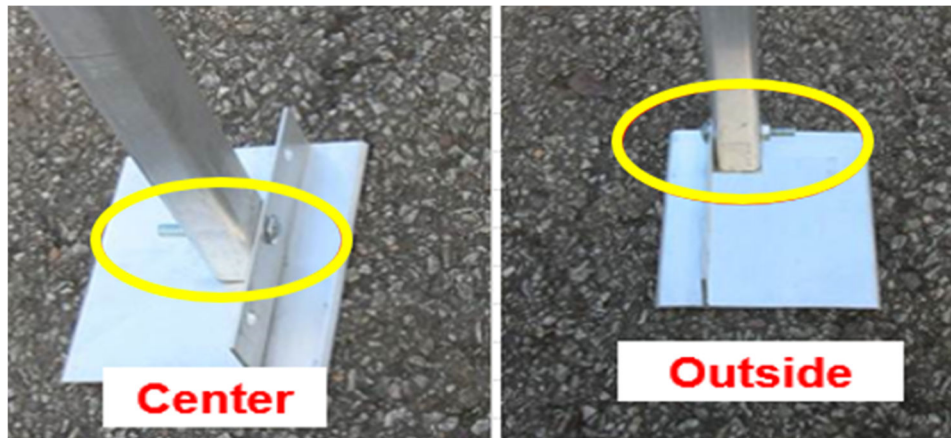
\*Some installers prefer to organize them by putting the same pieces together. Others prefer to lay them out close to how they will be assembled.

**\*Make sure all the Ramp Sections, Platforms, and Handrails arrived undamaged from shipping and use the Picklist to confirm the quantity of parts.**

**Step 2:** Attach Feet to Legs with 2½” carriage bolts in the most convenient position (see below).

\*The Leg can go on either side of the vertical plate.

\*You can organize the Legs by their size. The tallest Legs will go on tallest part of the Ramp System. (Unless there are stairs or other obstructions underneath the Ramp).



**Step 3:** Flip over the first Ramp Section and place four L-Connectors on all corners of the Ramp.

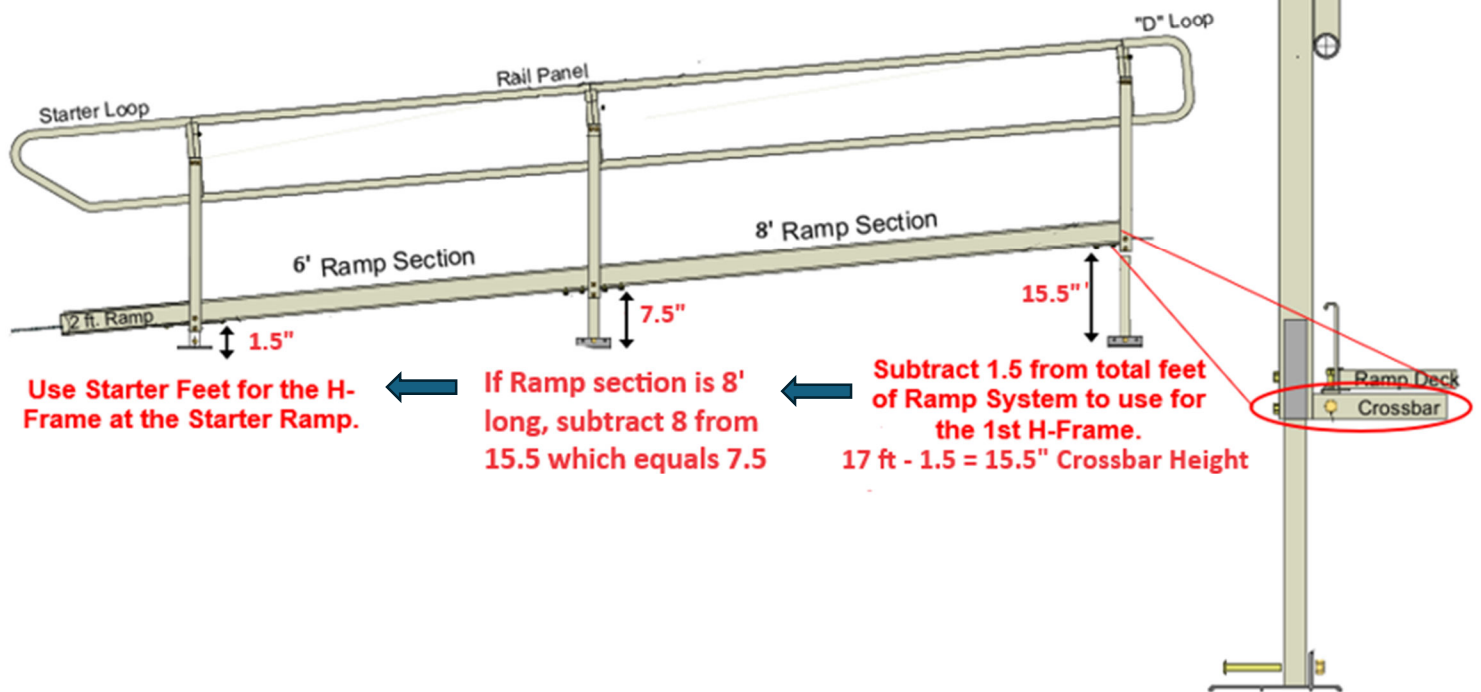
\*Use ¾” bolts and insert from underneath, the nut should be on the top. **Hand tighten only.**



**Step 4:** Take one of the H-Frames and loosen the pre-installed bolts.

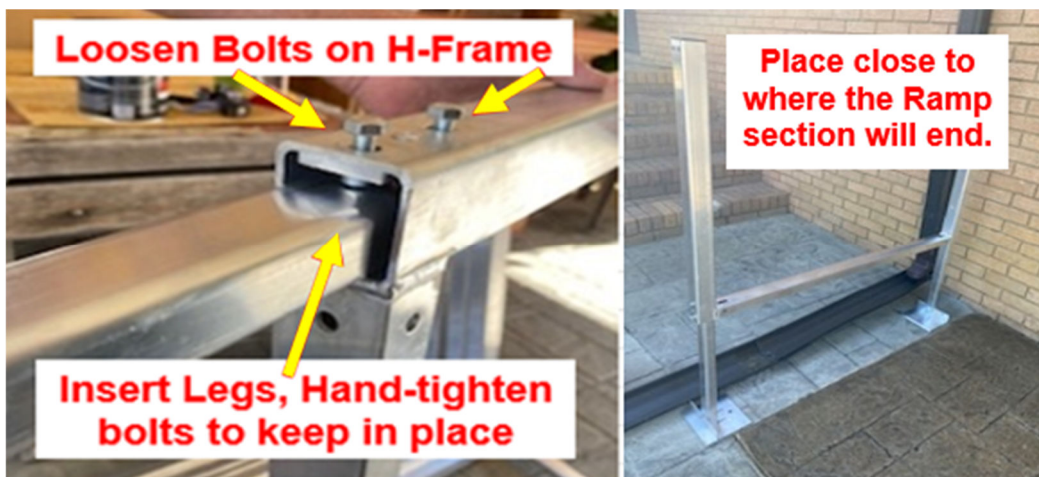
\*Once you have your Leg in the H-Frame, estimate how long the Leg will need to be & then hand-tighten the bolts to keep in place. (See diagram below if using a 1:12 pitch and the ground is level)

### Simple Trick for Setting Crossbar Height Using 1:12 Pitch



\*Place one H-frame where the Ramp will start and another where it will end.

**\*\*\*NOTE:** If the Ramp is starting on stairs, use the shortest legs available for the first H-Frame.



**Step 5:** Take the first Ramp section along with the 5” x 36” Top Plate.

\*Insert the Top Plate on the end of the Ramp that will rest on the porch.

**\*To insert the Top Plate:** Tilt the Plate downward and align the lip of the Plate with the groove of the Ramp.

\*When you set the Ramp and Plate down on the Porch or Platform, the Plate will stay in place.

\*Keep the other end of the Ramp supported until the H-frame is moved under to support it.



**Step 6:** Once the H-Frame is in position, place the two L-Connectors into the slot located on both sides of the H-Frame.

\*You can adjust the height of the Legs by tightening/ loosening the bolts holding the Legs in place. The Feet can drop down by themselves while someone supports the Ramp and adjusts it.

\*Be sure to use a Level to make sure the end of the ramp is level while adjusting the legs.

\*Back at the top of the Ramp, slide under another H-Frame and set the Connectors into the slot.



**Step 7:** On the remaining Ramp sections repeat **Steps 4 & 6** as shown below.

\*Every Ramp section will touch two H-frames (Except the Starter Ramp, which will only touch one).

\*Connectors from the upper and lower Ramp sections will share the same slot in the H-Frame..

\*You may have to tilt the H-Frame to make room in the slot for the second Connector.

\*Place the other end of the Ramp Section into the slots on the next H-Frame.



Keep adding Ramp sections as needed repeating **Step 7** using the next set of tallest Legs each time.

\*It is best to check behind each Ramp section to make sure the slope is consistent and there are no gaps between the Ramp sections. Adjusting the leg heights can remove the gaps.

\*You should also check the level after each Ramp section.

**Step 8:** Install the Starter Ramp as the last section at the bottom.

\*Take the Ground Plate (9" x 36") and assemble it to the bottom of the Starter Ramp the same way you did the Top Plate at the top of the Ramp System. (Tilt Plate downwards & align the lip of Plate with the groove of the Ramp. Lift Plate up to lock into position. The ground will support the Plate).

\*Insert the Starter Feet (These are welded onto the Legs) in the last H-Frame and place between Previous Ramp section and 2' Starter Ramp. There will not be an H-Frame at the ground part of the Starter Ramp.

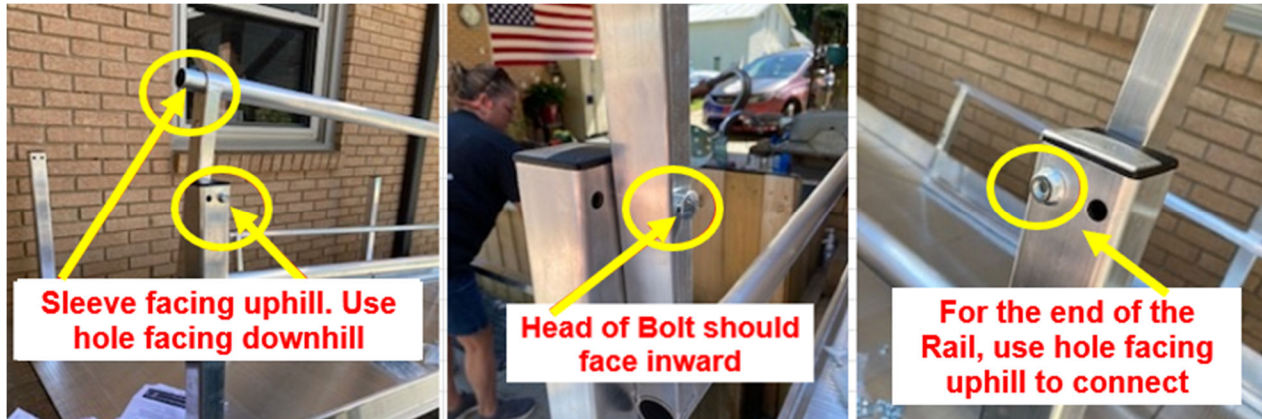


**Step 9:** Attach the Handrails to the H-Frames by using 4" Carriage Bolts.

\*The Handrails go on the inside of the H-Frame, with the sleeve facing uphill.

\*Use the downhill hole of the H-Frame to attach the Handrail Panel.

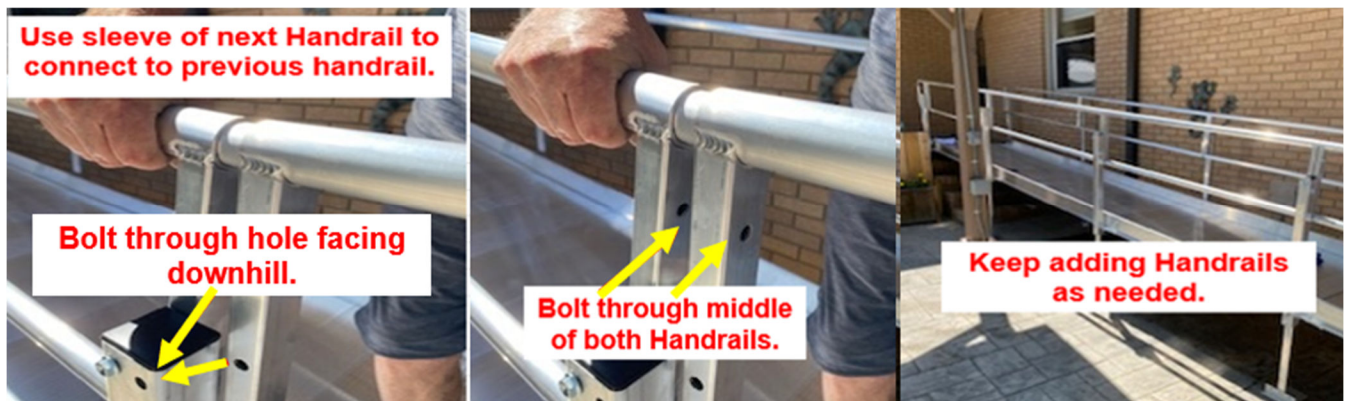
\*The smooth side of the bolt should face the customer.



\*Take the next Handrail and connect it to the previous Handrail by inserting the sleeve into the opening of the previous Handrail and secure with 4" Carriage Bolt.

\*Insert 2 1/2" bolts through the holes drilled into the Handrail Posts to connect them.

\*Keep adding Handrails as needed until you reach the Starter Ramp.



**Step 10:** The Starter Ramp requires the Starter Loops. Connect these to the last Handrail by inserting the sleeve and securing with a 4" Carriage Bolt using the uphill hole on the H-Frame.

Place 2 1/2" bolts through the holes drilled into the Handrail Post and Starter Loop Post to connect them.



**Step 11:** Back at the top of the Ramp you can install the D-Loops **which are only provided if the porch does not have existing Handrails and the Ramp is not going against a door or wall.**

\*If the Porch already has existing handrails, or the ramp is going against a wall, you can simply apply black caps to close the opening of the Handrails.

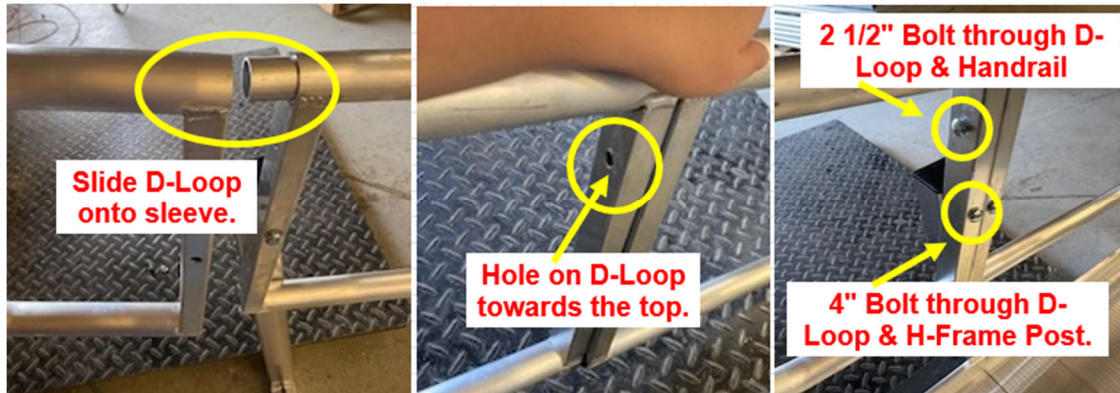
**The Black Caps are only provided if the plan does not include D-Loops**

**\*To install the D-Loops:**

\*Slide the D-Loop onto the sleeve of the Handrail. The hole on the inside of the D-Loop should be towards the top.

\*Insert 4" Carriage Bolt to connect the D-Loop to the H-Frame Post.

\*Insert 2 1/2" Bolt to connect the D-Loop and Handrail.



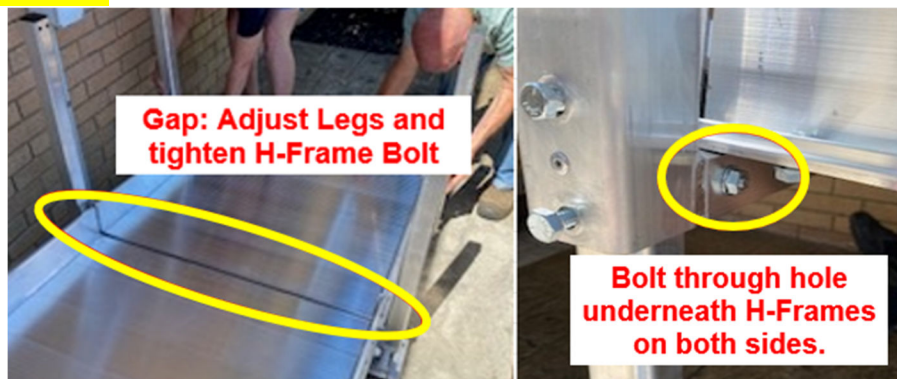
**\*To apply the Black Caps:** Remove the Sleeve from the Handrail by taking out the tapping screw holding it in place, and push in the Black Cap. **You may need to take a rubber Mallet to insert them all the way.**

\*Apply Black Cap on every Rail opening.



**Step 12:** Inspect the Ramp Sections for Gaps. If there are gaps, the slope of the ramp sections may need adjusted. The slope can be adjusted by changing the leg height.

**\*You should also place a bolt underneath every H-Frame on both sides to keep the Ramp sections secure. This can help with Ramp Gaps as well.**



**Step 13:** Once you are satisfied with the Ramp placement, tighten all the bolts using your Impact Wrench.

\*Start at the top of the Ramp System and work your way down.

\*Save the Handrail bolts for last.

As you tighten them, the handrails will become straighter, and the ramp will become sturdier.

**Step 14:** Anchor the Top and Ground Plates. Place screws on both ends, and in the middle.

\*If **anchoring to one of our Platforms or Metal:** Use the provided self-tapping screws.

\*If **anchoring to a wooden Porch/ Deck:** Use 2” Wood Screws.

\*If **anchoring to Concrete:** Use appropriate Concrete Anchors. Keep in mind that anchoring on concrete can cause it to crack. Ask customers’ permission first.



**Congratulations!!! You have completed the Ramp System.**





