



PRIME DESIGN™

A Safe Fleet Brand

Quick Start Guide

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Contents

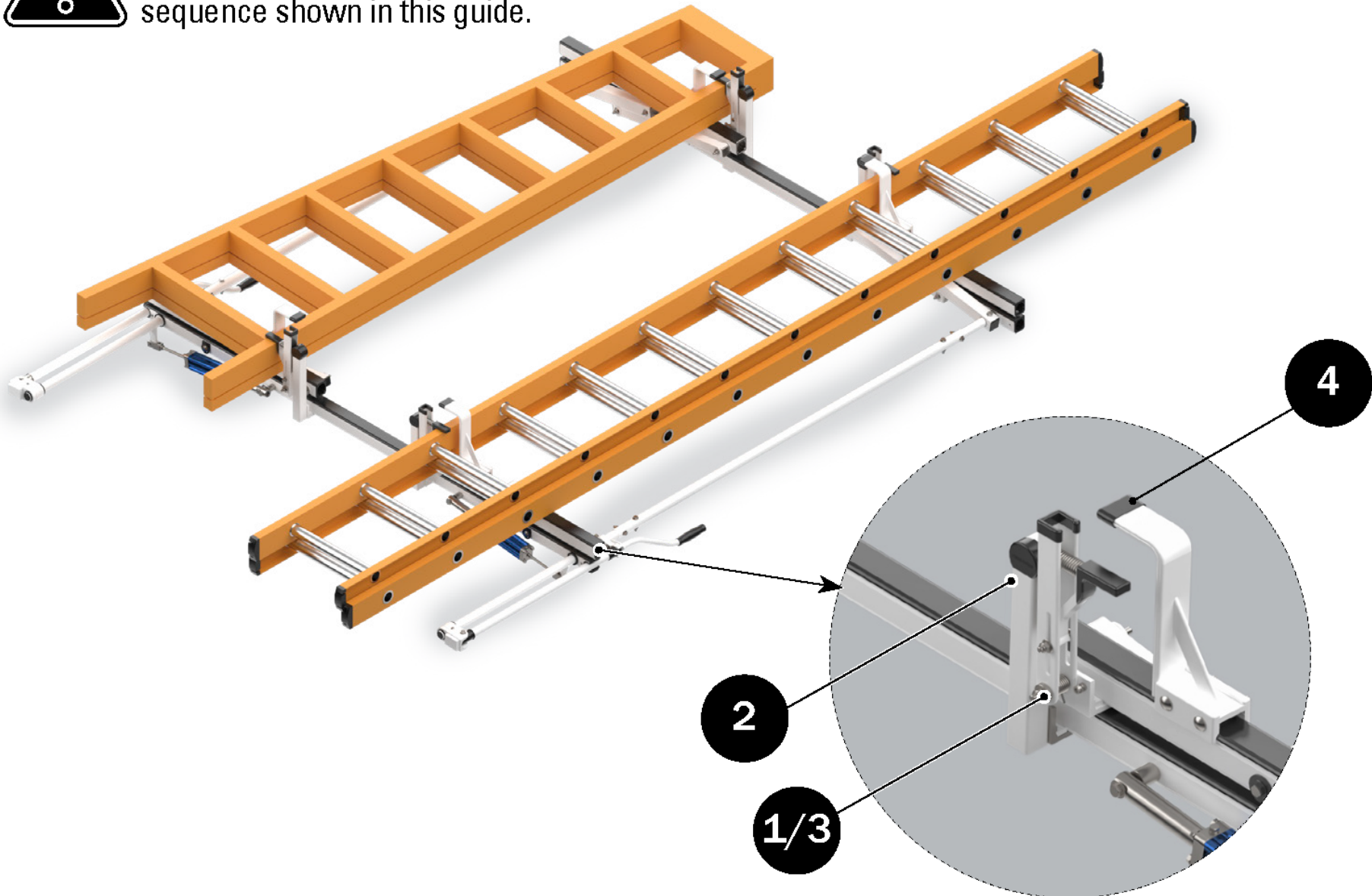
- A ERGORACK - ROTATION WITH AUTO CLAMP
- B ERGORACK - ROTATION WITH SLIDE EXTENSION
- C ERGORACK - CLAMP DOWN
- D ALURACK - QUICK CLAMP

A1

ROTATION WITH AUTO CLAMP



Perform adjustments to all applicable rack quadrants in the sequence shown in this guide.



Auto Clamp-Preset

Auto Clamp Rotation

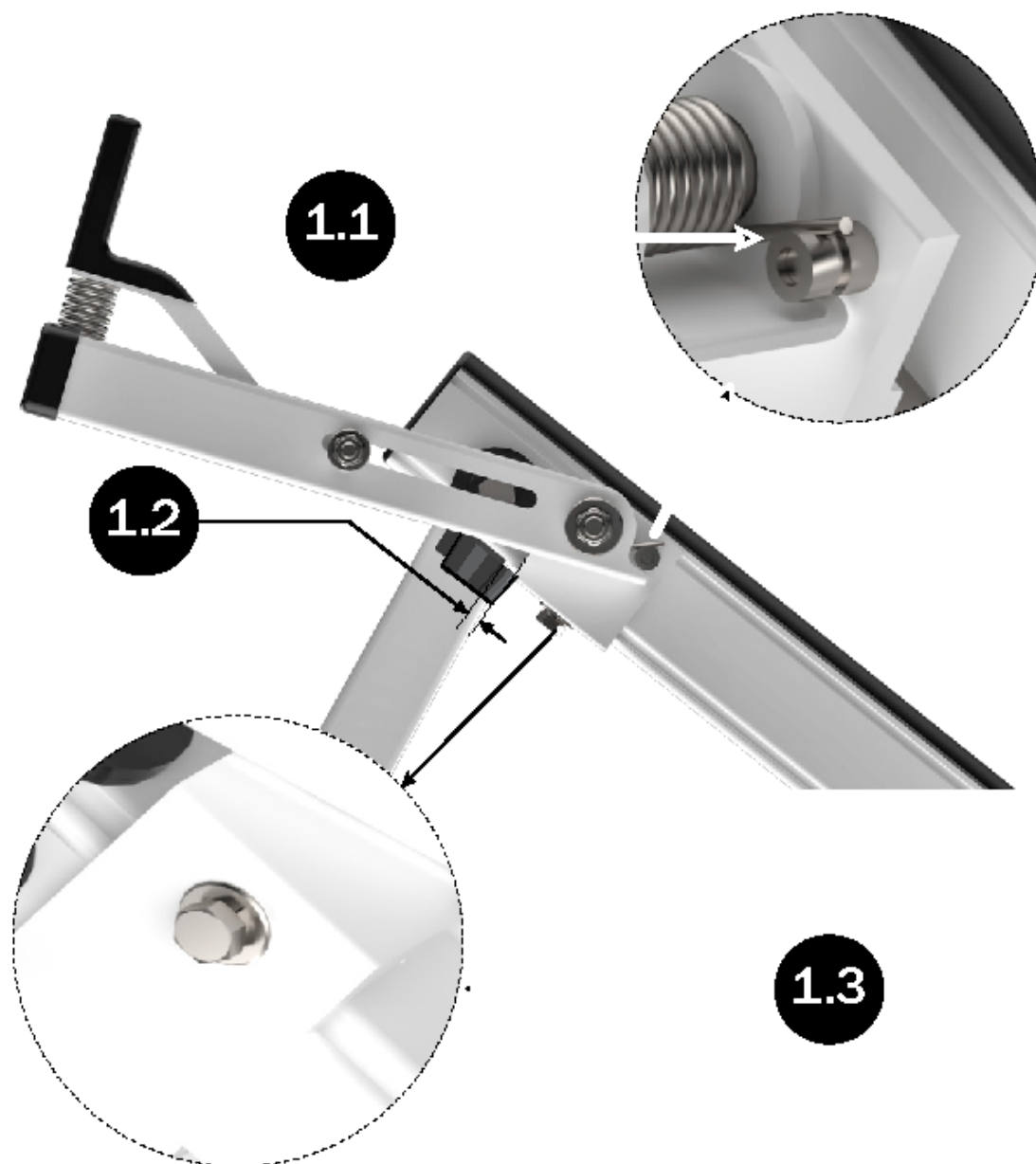
This ErgoRack Ladder Rack features an Auto Clamp System on top of the rack to automatically secure your ladder in place. As ladders come in all shapes and sizes, it is necessary to adjust the Auto Clamp to the L Post and Z Post for a proper fit. The front and rear Auto Clamp Systems adjust in the same manner—however, it's recommended that adjustments begin with the rear Auto Clamp Systems.

Step 1.1—For correct operation, the Auto Clamp Spring must engage the groove on the brass spring seat as shown.

Step 1.2—The recommended Auto Clamp mounting location is a minimum distance of $\frac{1}{4}$ " from the rubber bumper to the edge of the Auto Clamp Bracket as shown.



Step 1.3—Torque the Auto Clamp's mounting bolt to 80 in-lbs.



L Post

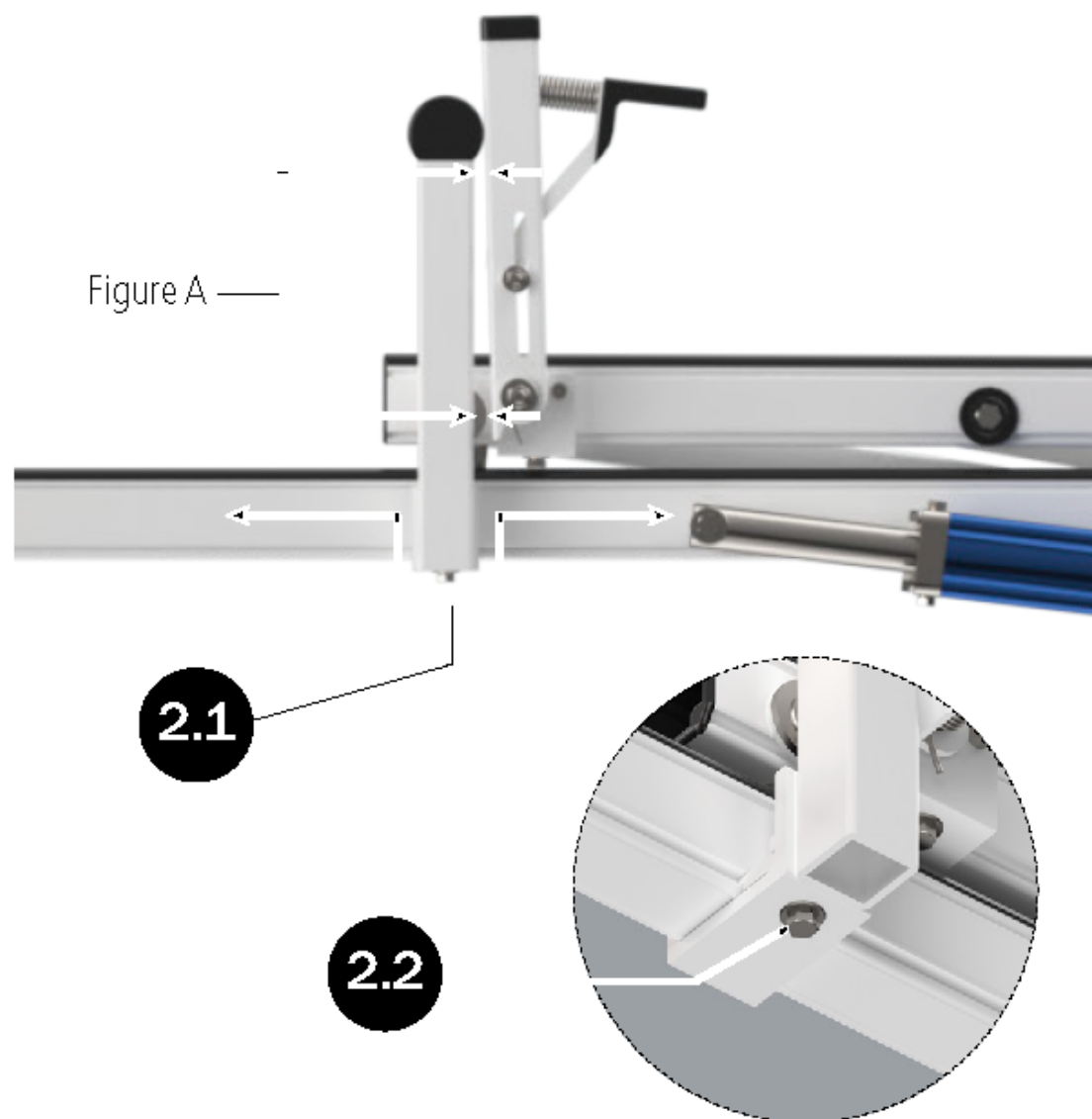
Auto Clamp Rotation

Step 2.1—Slide the L Post left to right until the gap between the L Post and Auto Clamp is even from top to bottom as shown in Figure A.



Step 2.2—Torque the L Post bolt to 80 in-lbs.

Figure A —



Auto Clamp

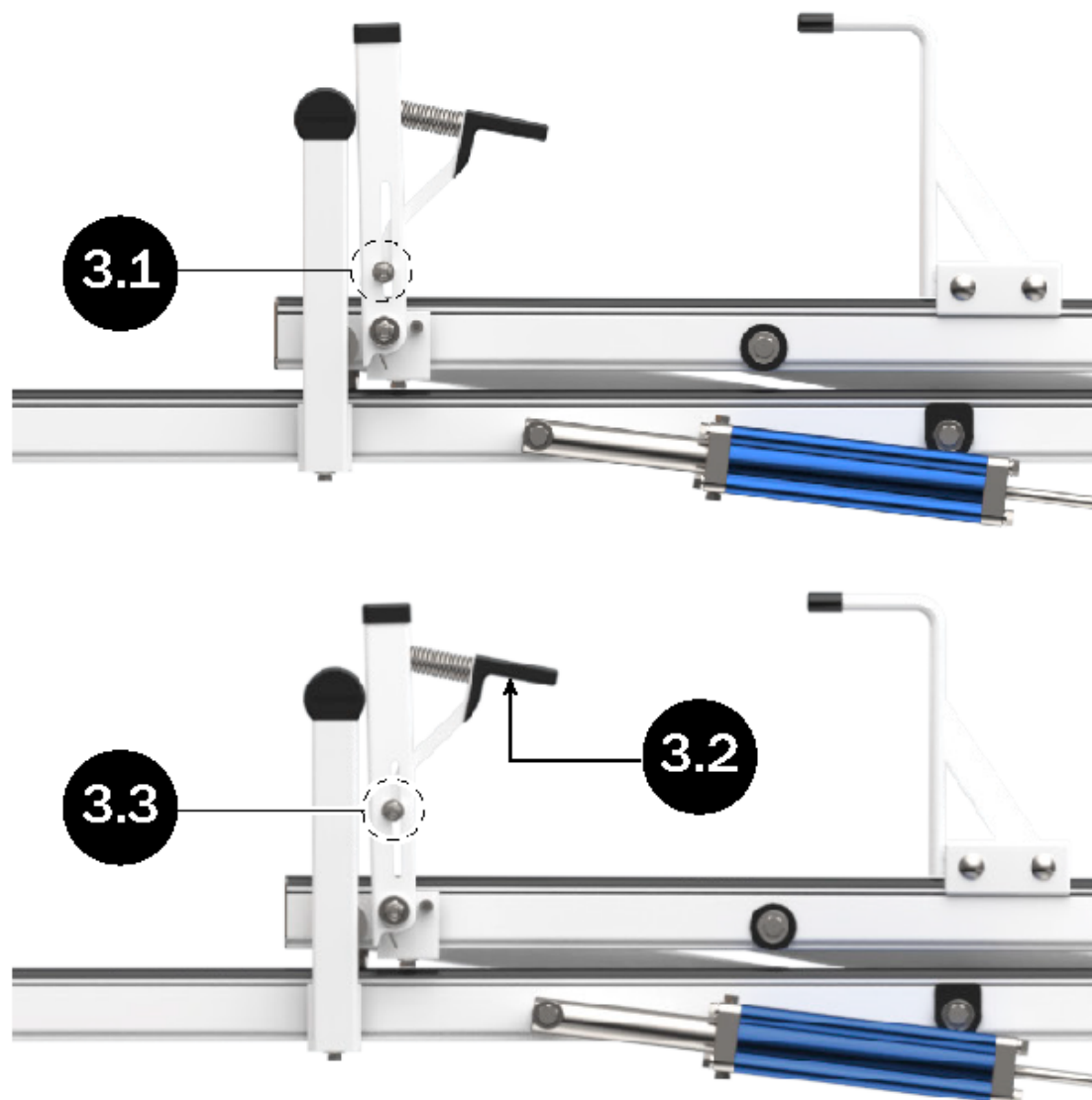


Step 3.1–Loosen this nut.

Step 3.2–Slide the Auto Clamp Arm to the top.



Step 3.2–Lightly snug the nut tight. This will be torqued in Step 4.7.

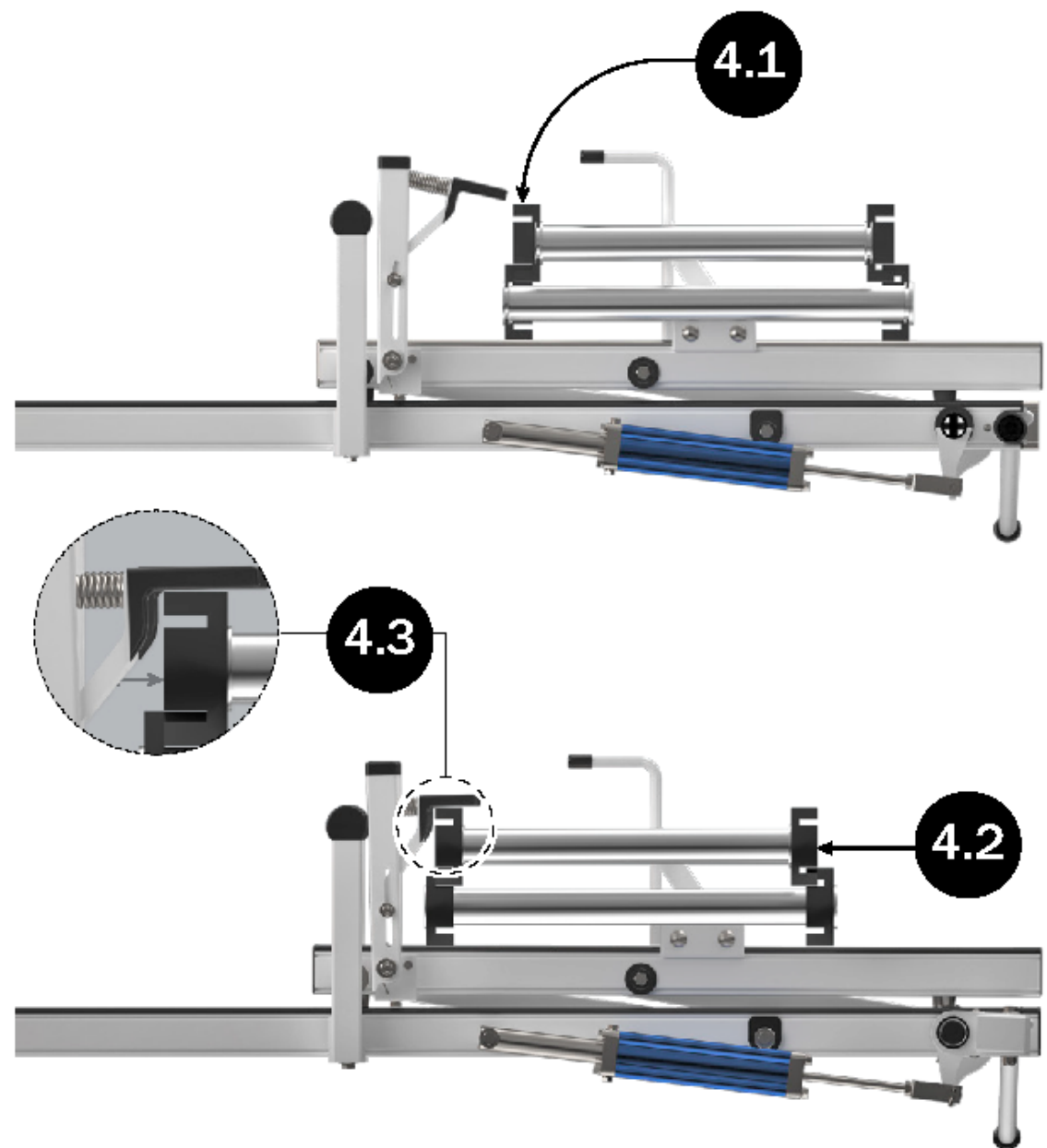


Z Post

Auto Clamp Rotation

Step 4.1—Place the ladder onto the upper with the Z Post positioned between the ladder rails.

Step 4.2—Push the ladder against the Auto Clamp Arm until the Arm runs parallel to the Auto Clamp's body as shown in detail 4.3.



Z Post

Auto Clamp Rotation

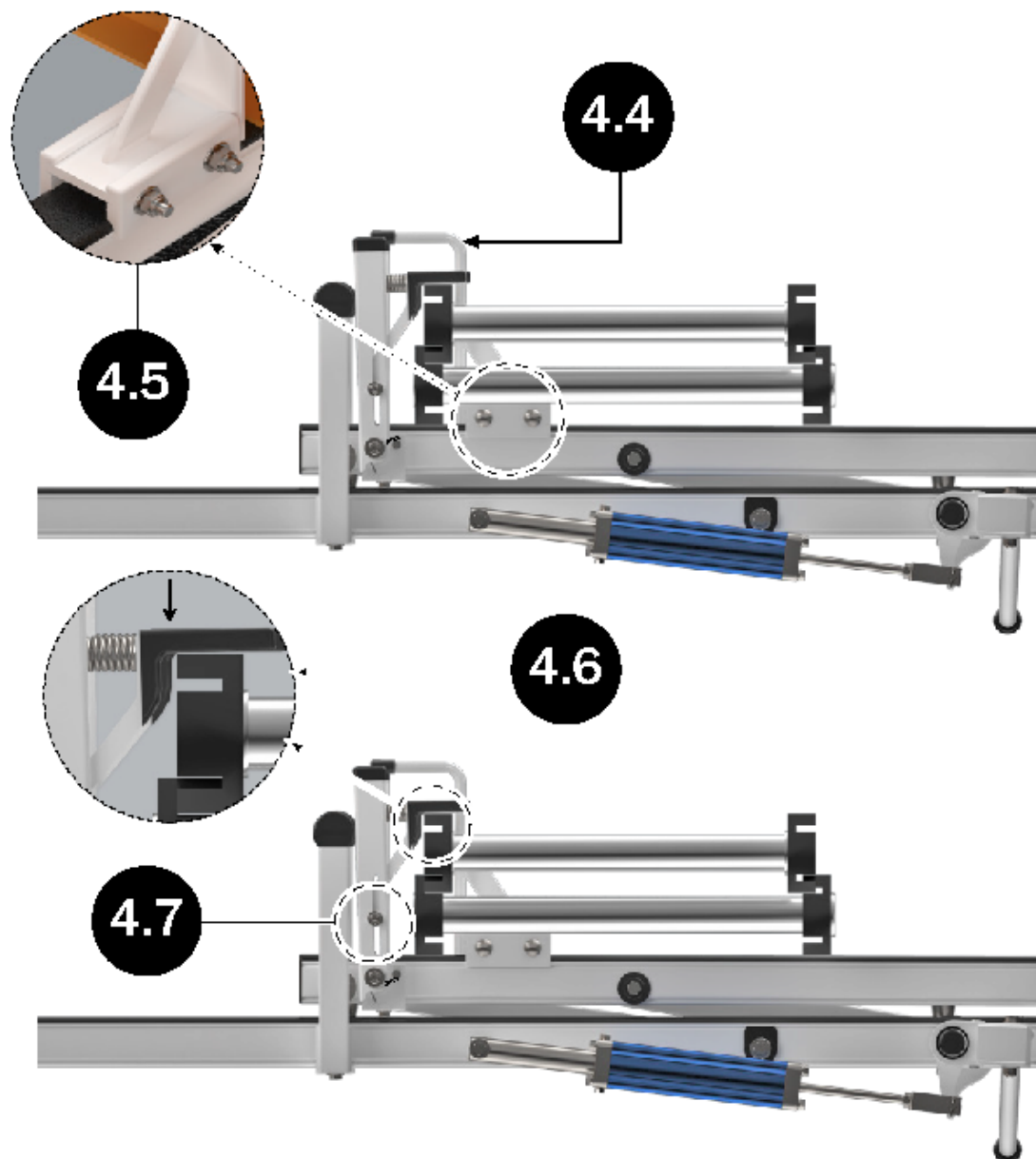
Step 4.4—Push the Z Post firmly against the ladder rail and the Auto Clamp Arm and L Post.

Step 4.5—Torque both Z Post clamp nuts to 90 in-lbs.

Step 4.6—Push the Auto Clamp Arm down toward the top of the ladder rail until it rests $\frac{1}{4}$ " above the ladder rail. This gap is required to prevent binding of the Auto Clamp.

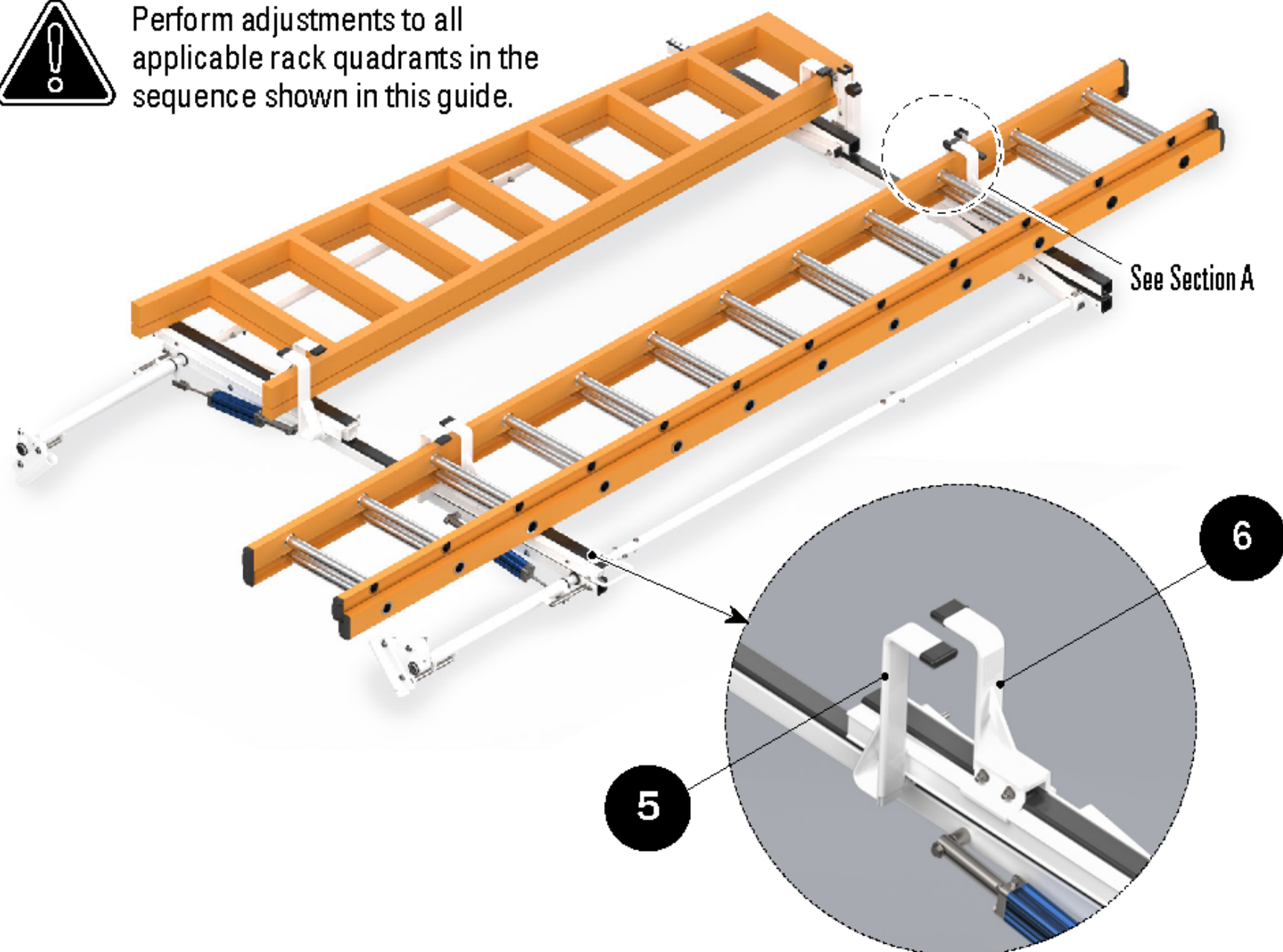


Step 4.7—Torque the Auto Clamp Arm nut to 30 in-lbs.





Perform adjustments to all applicable rack quadrants in the sequence shown in this guide.



Slide Z Post

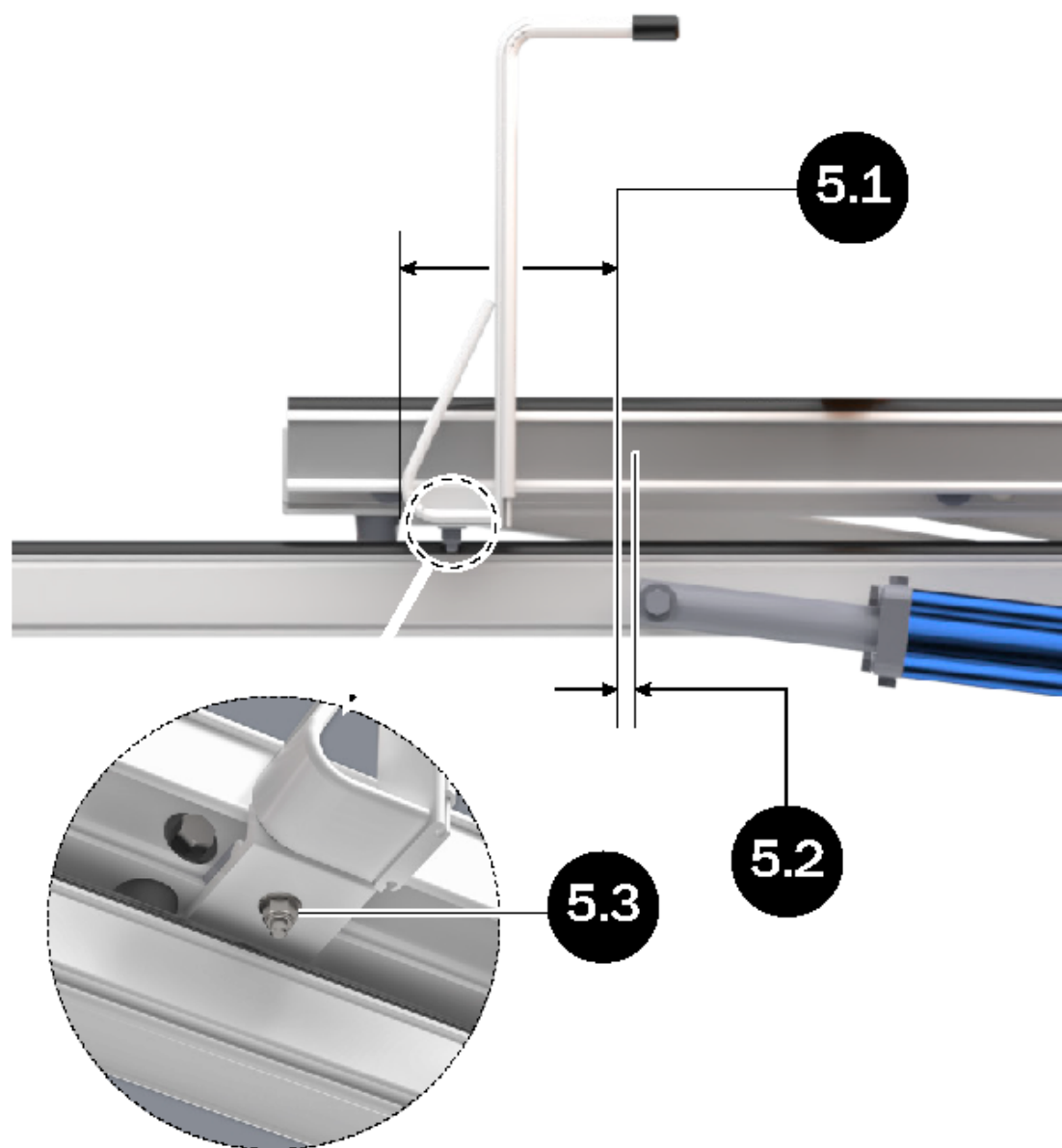
Slide Rotation

Step 5.1—Position the Slide Z Post between the rubber bumper and the Hydraulic Cylinder.

Step 5.2—Leave a minimum safe distance of $\frac{1}{4}$ " between the Slide Z Post and the Cylinder.



Step 5.3—Torque the Slide Z Post nut to 80 in-lbs.

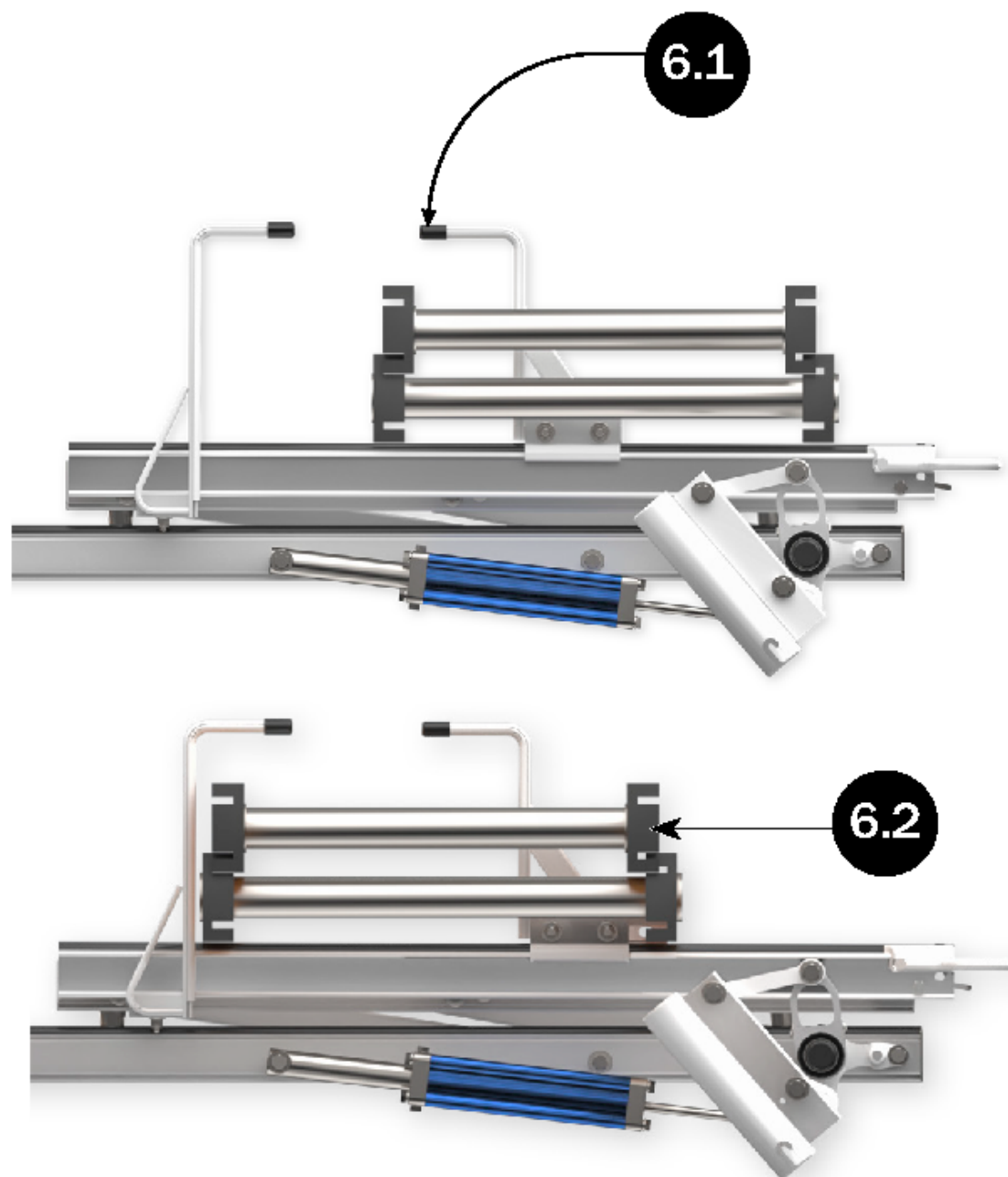


Slide Adjustable Z Post

Slide Rotation

Step 6.1—Place the ladder onto the slide's upper with the Z Post positioned between the ladder rails.

Step 6.2—Push the ladder against the Slide Z Post.



Slide Adjustable Z Post

Slide Rotation

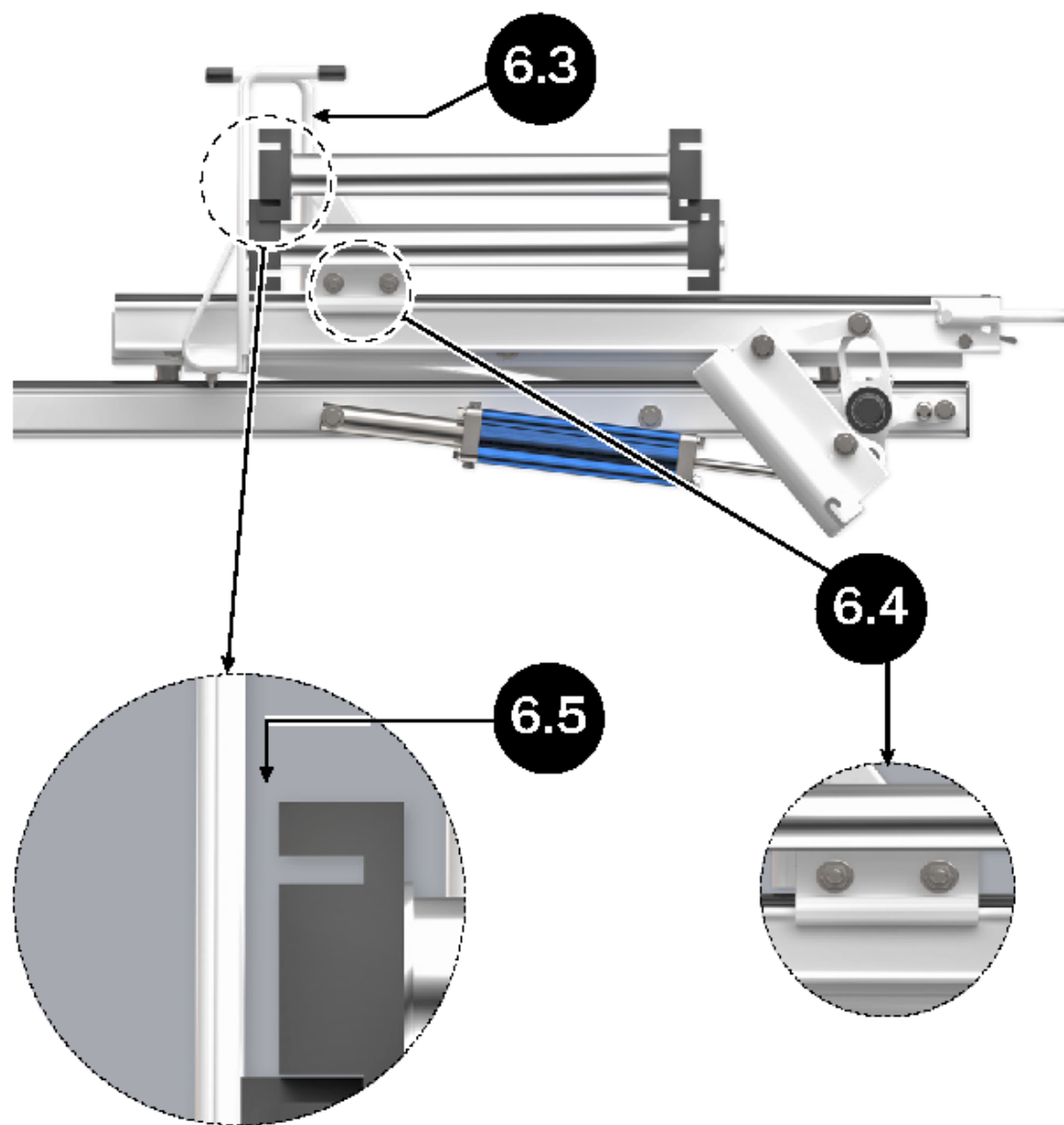
Step 6.3– Push the Adjustable Z Post firmly against the ladder's rail and the Slide Z Post.



Step 6.4– Torque the Adjustable Z Post nuts to 90 in-lbs.

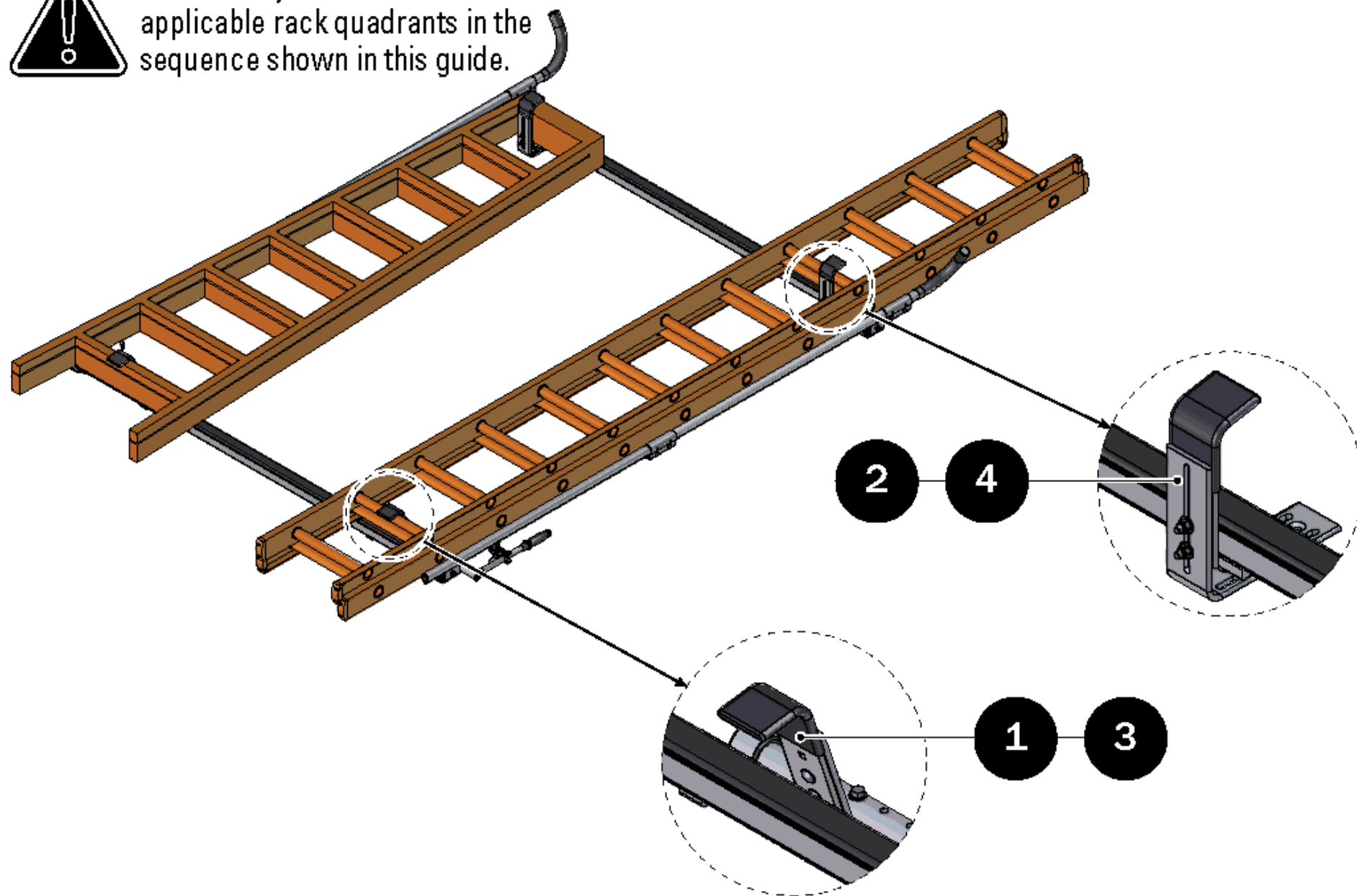
Step 6.5– If the ladder binds during operation, it will be necessary to readjust the Adjustable Z Post until opening operation is smooth and the ladder no longer binds.

It is recommended to increase the Adjustable Z Post distance from the Slide Z Post in $\frac{1}{4}$ " increments.



C1**ERGORACK - CLAMP DOWN**

Perform adjustments to all applicable rack quadrants in the sequence shown in this guide.



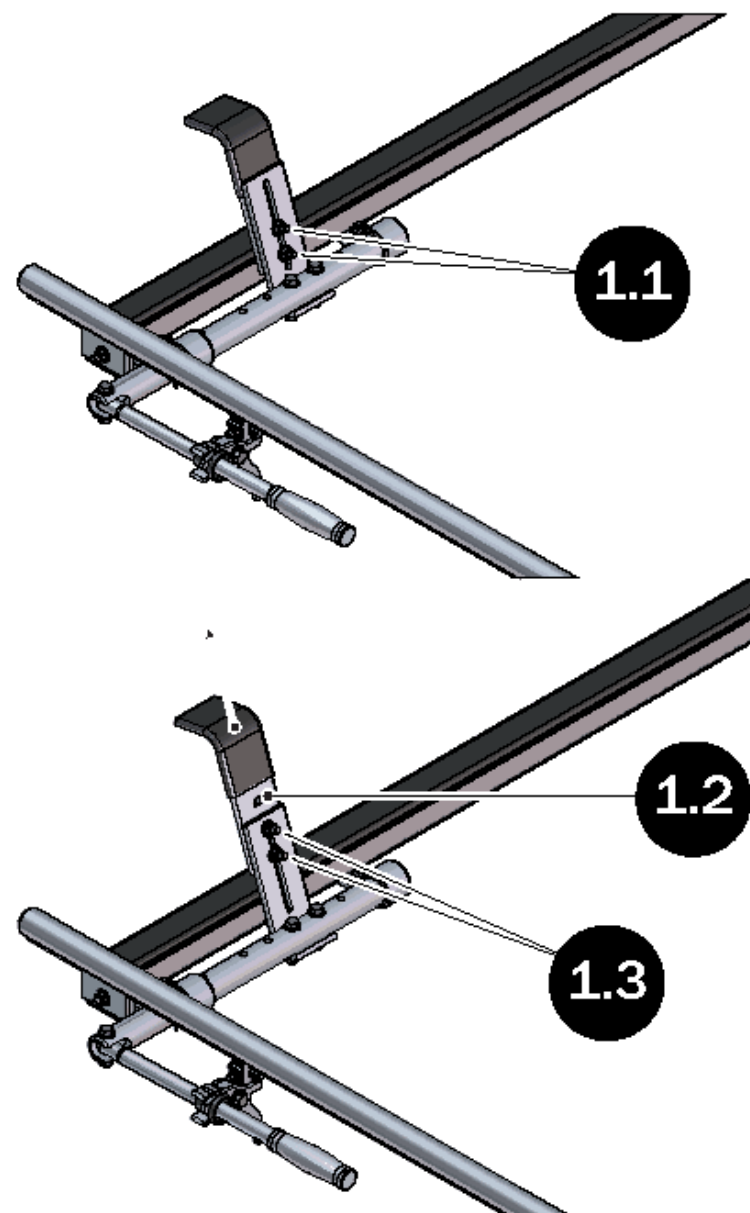
Clamp Down System

Rear Hook Setup

Step 1.1–Loosen the nuts on the rear Clamp Down ladder hook.

Step 1.2–Slide the ladder hook up to the top of the rear clamp plate.

Step 1.3–Lightly tighten the nuts on the rear Clamp Down ladder hook.



Clamp Down System

Front Hook Setup

Step 2.1—Loosen the nuts on the front Clamp Down ladder hook.

Step 2.2—Slide the front ladder hook inboard and out of the way.

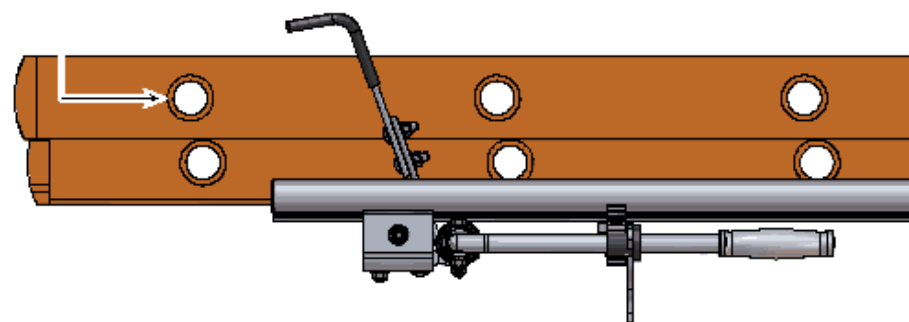
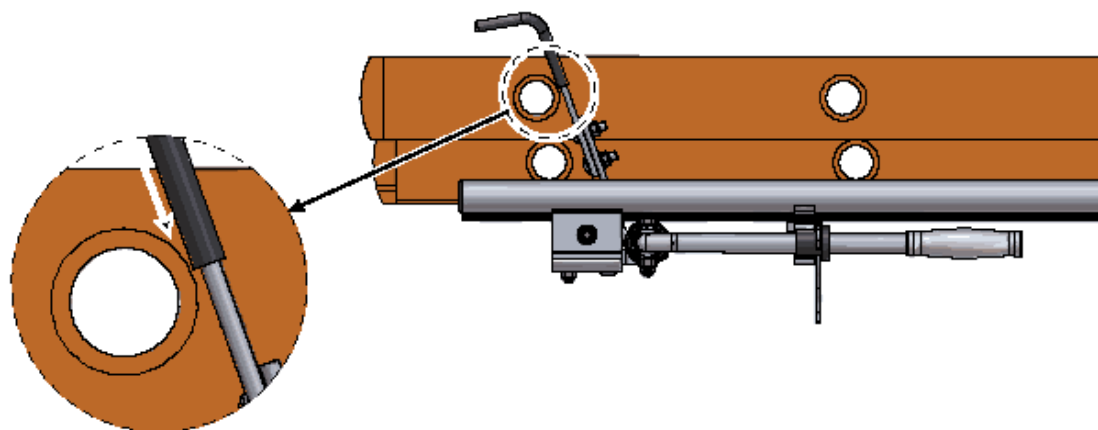


Clamp Down System

Rear Hook

Step 3.1—Place a ladder onto the Crossbars and locate the rear Clamp Down ladder hook between two of the ladder's rungs. Push the ladder forward to engage the rear ladder hook.

Step 3.2—A ladder rung must rest against the ladder hook as shown.

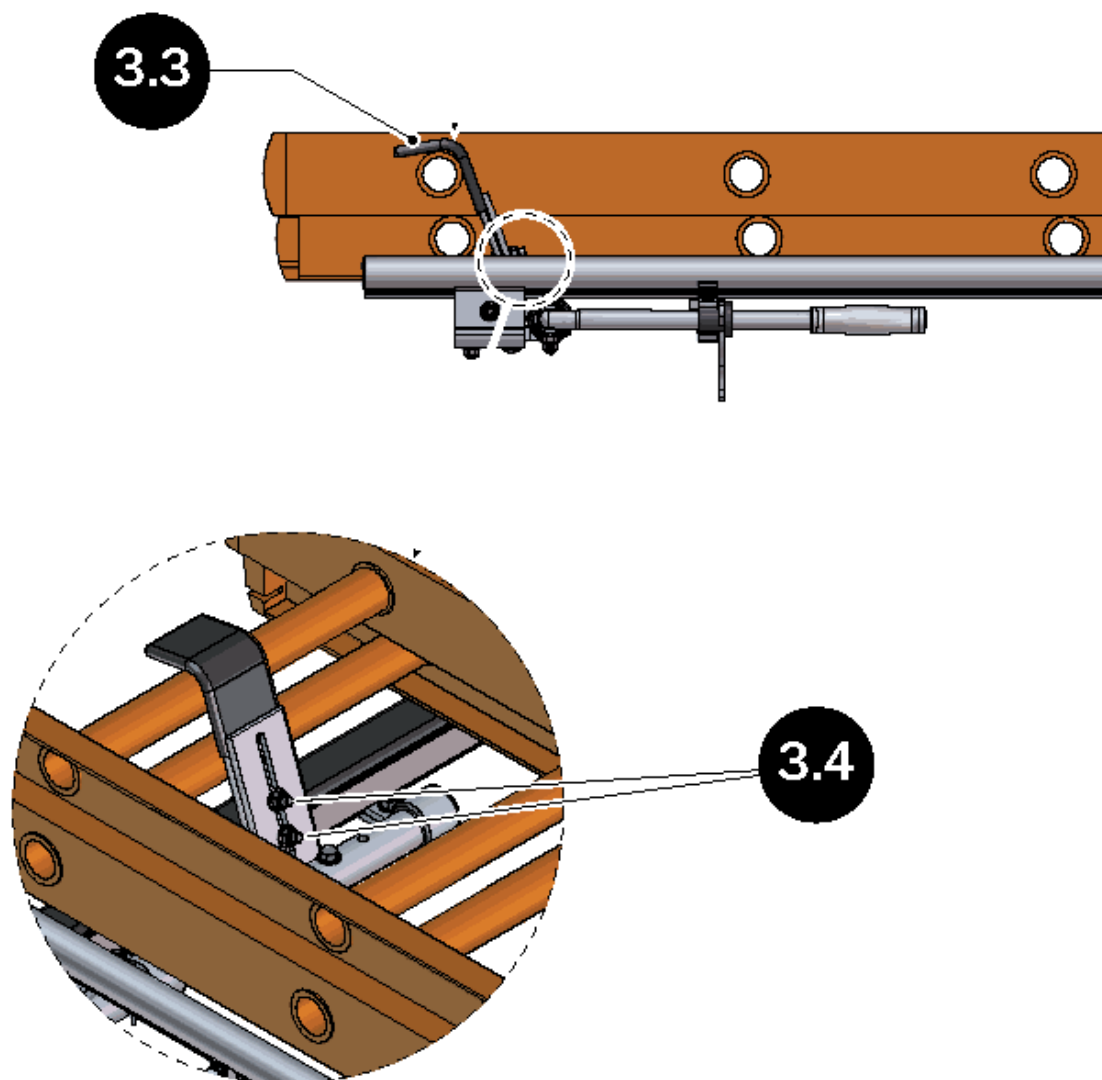
3.1**3.2**

Clamp Down System

Rear Hook

Step 3.3—While keeping moderate tension against the rear ladder hook, slide the ladder hook down until it contacts the ladder's rung.

Step 3.4—Torque the ladder hook nuts to 130 in-lbs.



Clamp Down System

Front Hook

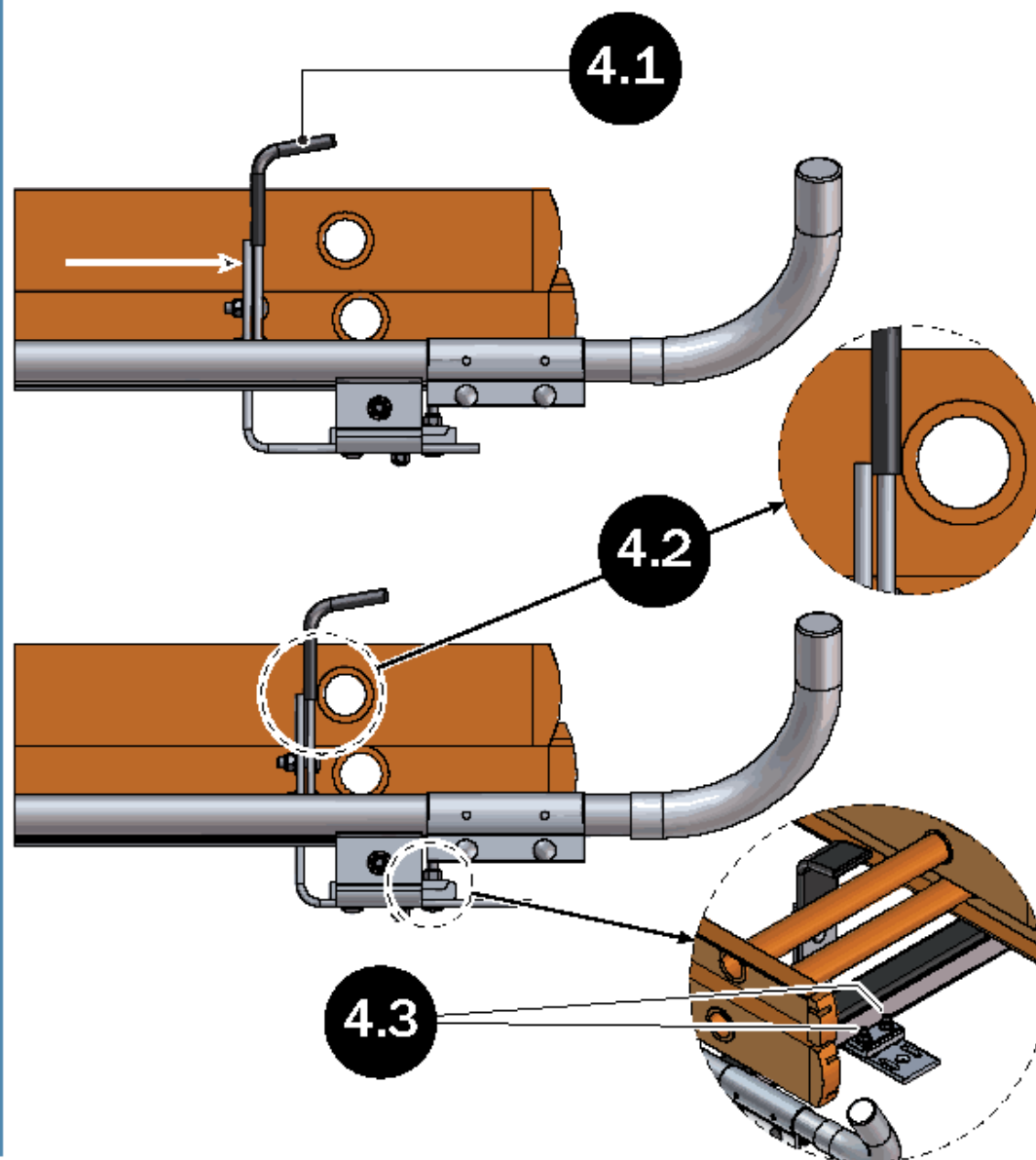
Step 4.1–Slide the front ladder hook base forward until it contacts the ladder rung.

Step 4.2–The ladder hook must rest against the ladder rung as shown.

Step 4.3–Torque the ladder hook base nuts to 130 in-lbs.

Note: The Crossbar-mounted front ladder hook is slotted to accommodate a variety of ladder types. Accordingly, the front ladder hook may be unable to fully engage some manufacturer's ladder rungs. If this condition occurs, then additional adjustments of the front Clamp Down ladder hook are required.

Follow Steps 4.1-4.3 for additional adjustment procedures.



Clamp Down System

Front Hook-Additional

Step 4.4—Remove the bolt assemblies.

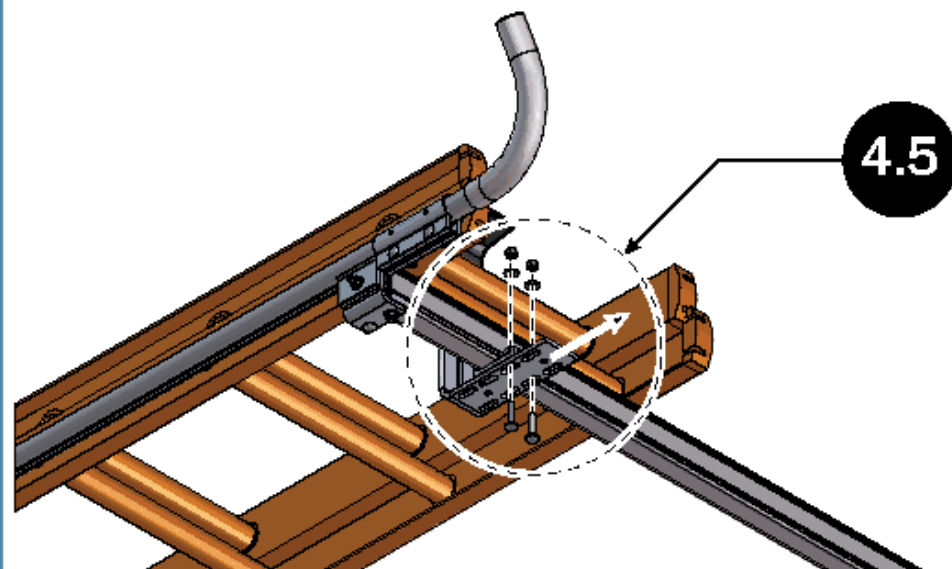
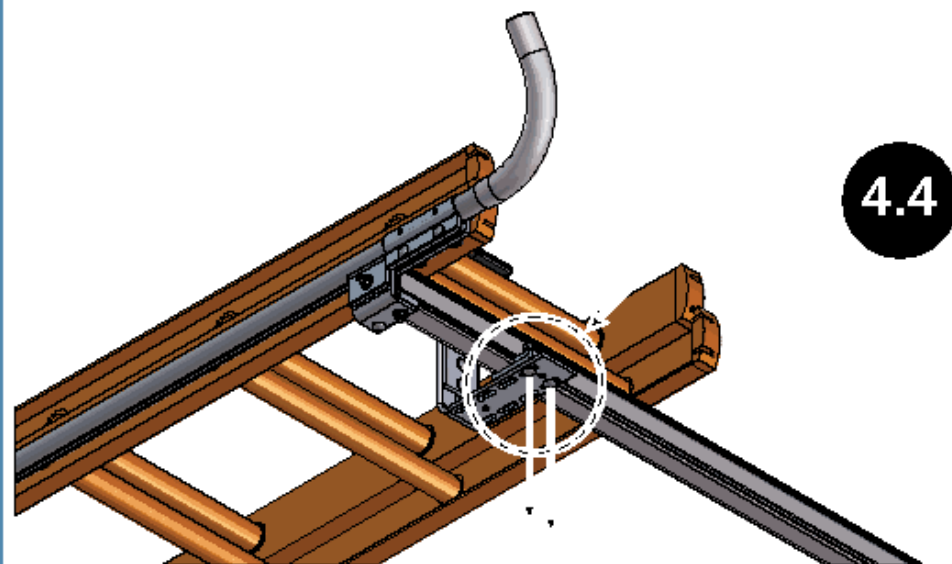
Step 4.5—Slide the front ladder hook base forward to the next set of slotted holes, and reinstall the hardware.

Step 4.6—Repeat Steps 4.1-4.2.

If the front ladder hook still doesn't fully engage a ladder rung, repeat Steps 4.4-4.5 until successful.

Proceed to Step 4.3 upon successful hook and rung engagement.

Note: If, after repeated attempts, the front Clamp Down ladder hook still won't engage a ladder rung, verify that the Crossbar spacing is correct from front to back on both sides of the ladder rack.

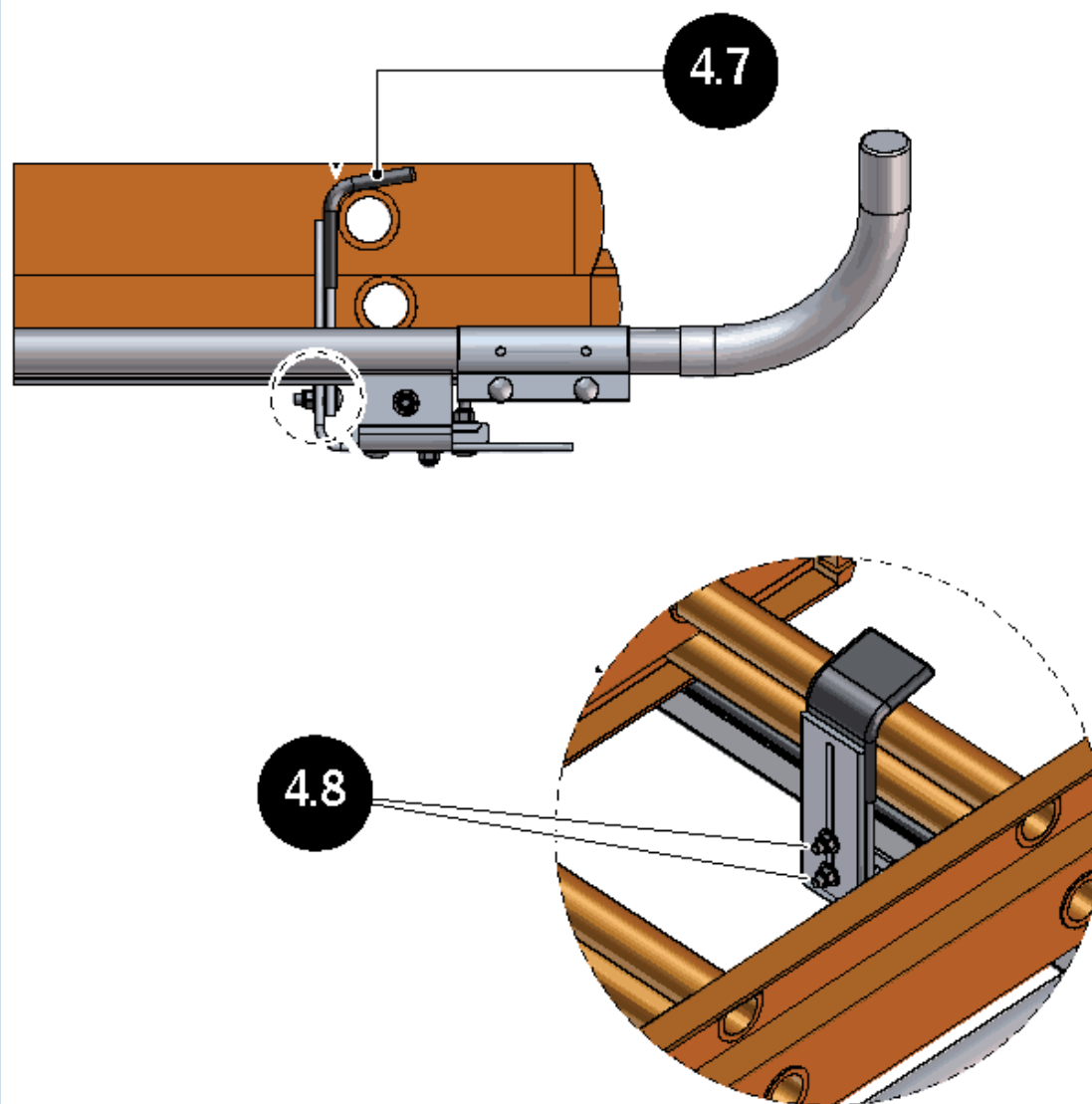


Clamp Down System

Front Hook-Final

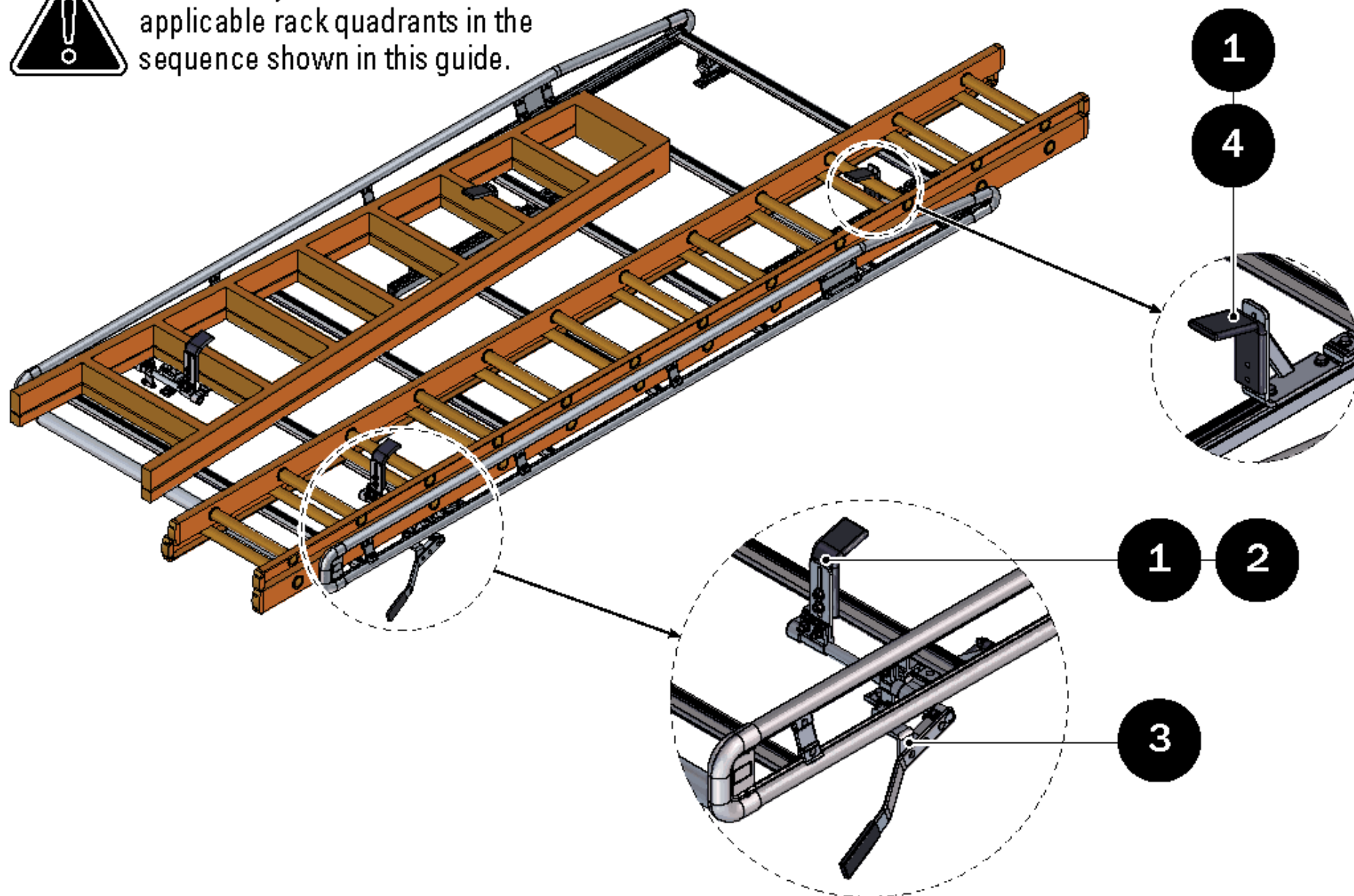
Step 4.7–Slide the front ladder hook down until it contacts the ladder rung.

Step 4.8–Torque the front Clamp Down ladder hook nuts to 130 in-lbs.





Perform adjustments to all applicable rack quadrants in the sequence shown in this guide.



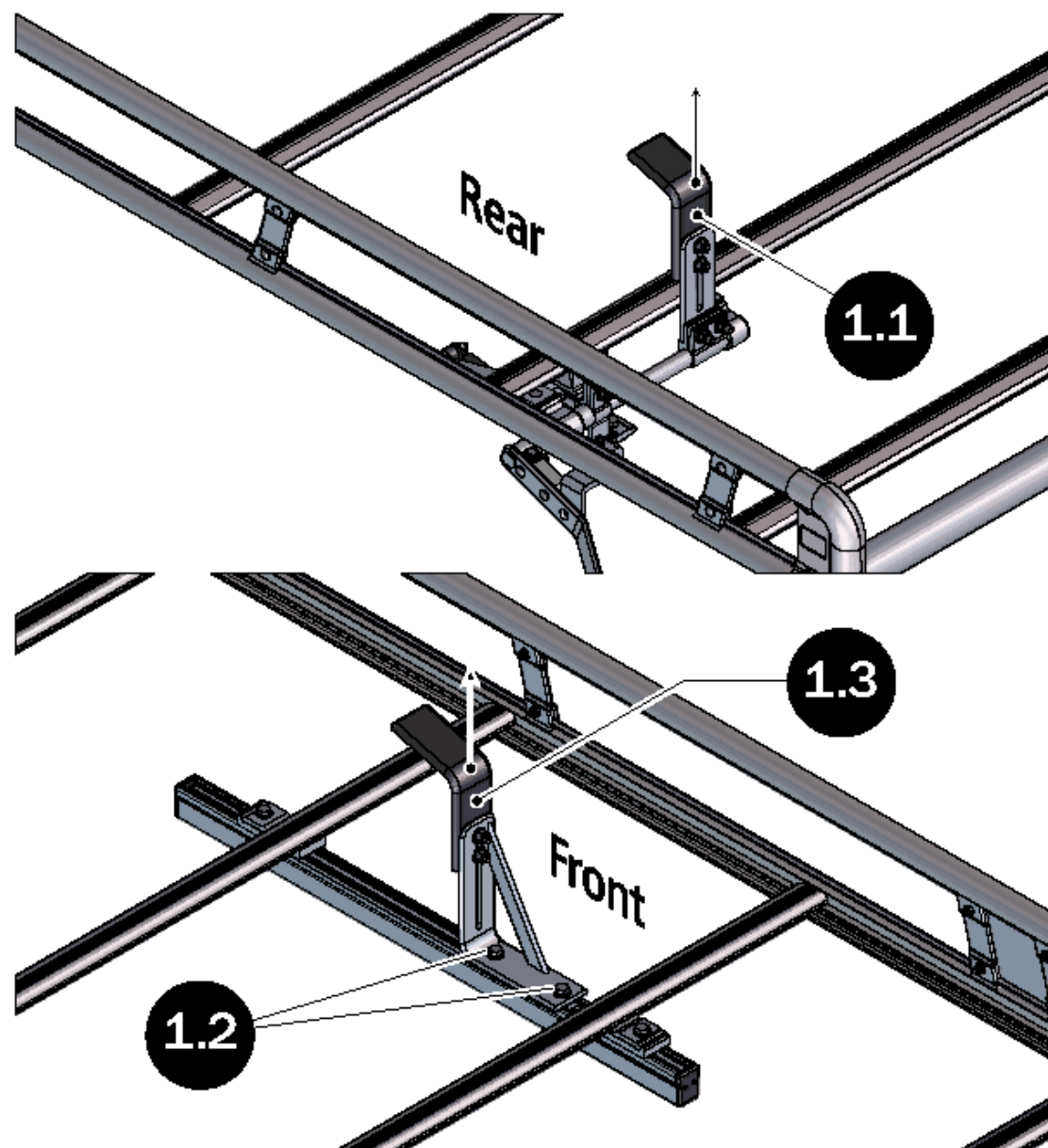
Quick Clamp System

Adjustable Hook Setup

Step 1.1—Loosen the nuts on the rear Quick Clamp ladder hook. Slide the ladder hook up to the top of the rear clamp plate, then lightly tighten the nuts on the rear Quick Clamp ladder hook.

Step 1.2—Loosen both of the bolts on the front Quick Clamp hook base, then slide it forward until it contacts the front Crossbar.

Step 1.3—Slide the ladder hook up to the top of the front hook base, then lightly tighten the nuts on the front Quick Clamp ladder hook.



Quick Clamp System

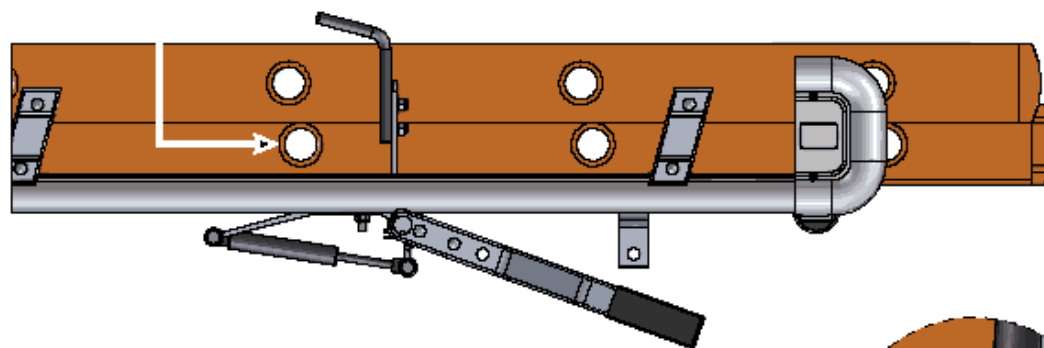
Rear Hook

(Upper Side Rail removed for clarity)

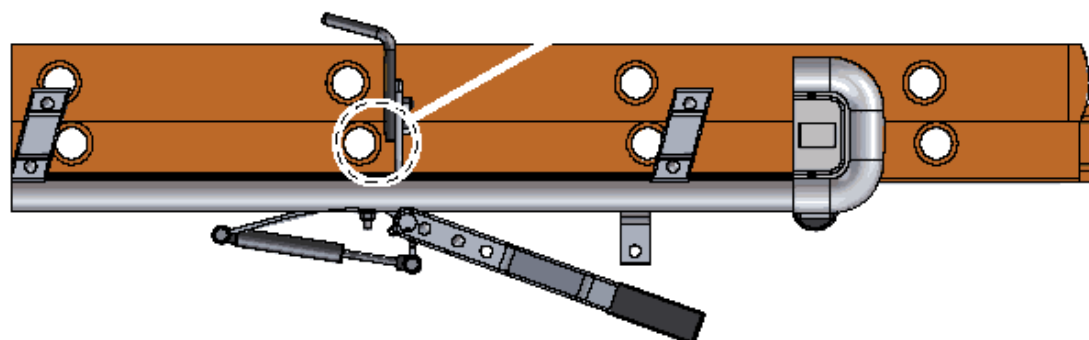
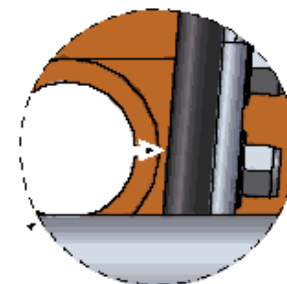
Step 2.1—Push the ladder back and against the rear ladder hook.

Step 2.2—A ladder rung must rest against the ladder hook as shown.

2.1



2.2



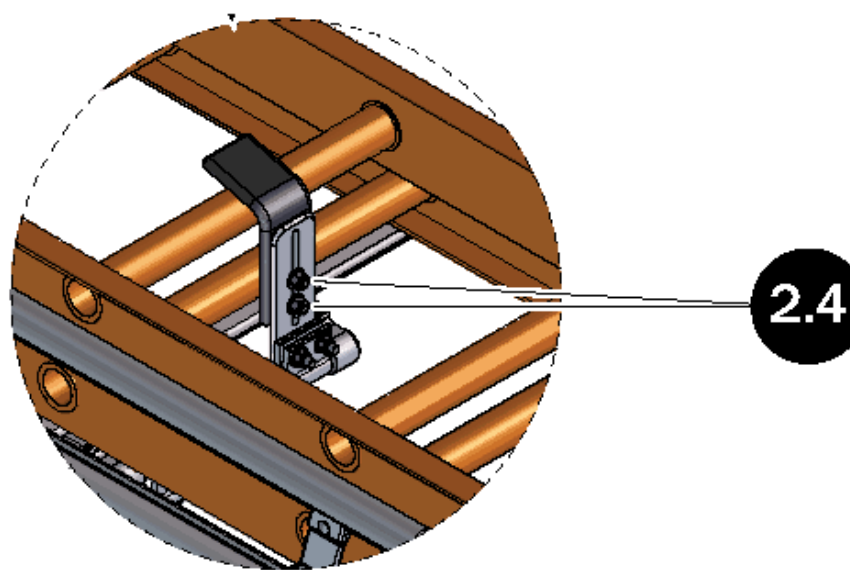
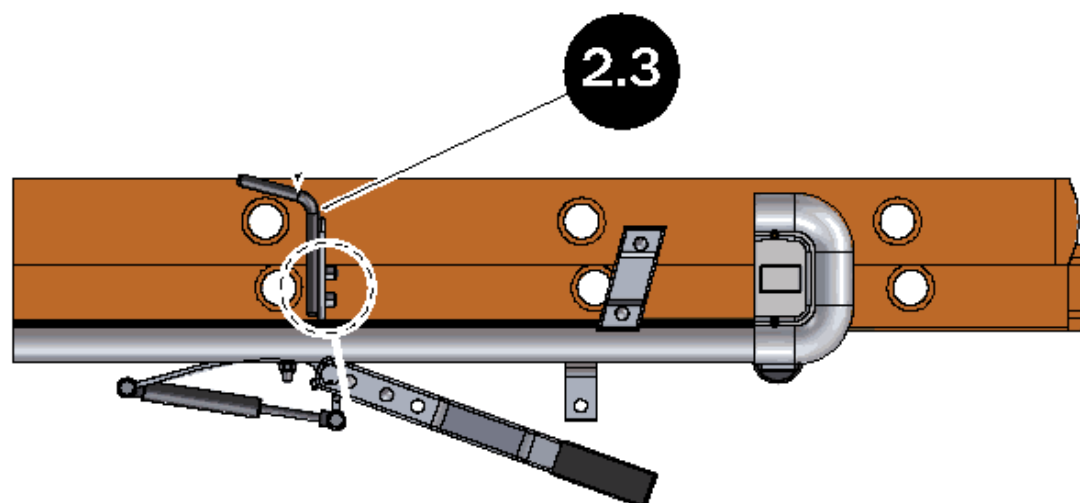
Quick Clamp System

Rear Hook

(Upper Side Rail removed for clarity)

Step 2.3—While keeping moderate tension against the rear ladder hook, slide the ladder hook down until it contacts the ladder's rung.

Step 2.4—Torque the ladder hook nuts to 130 in-lbs.



Quick Clamp System

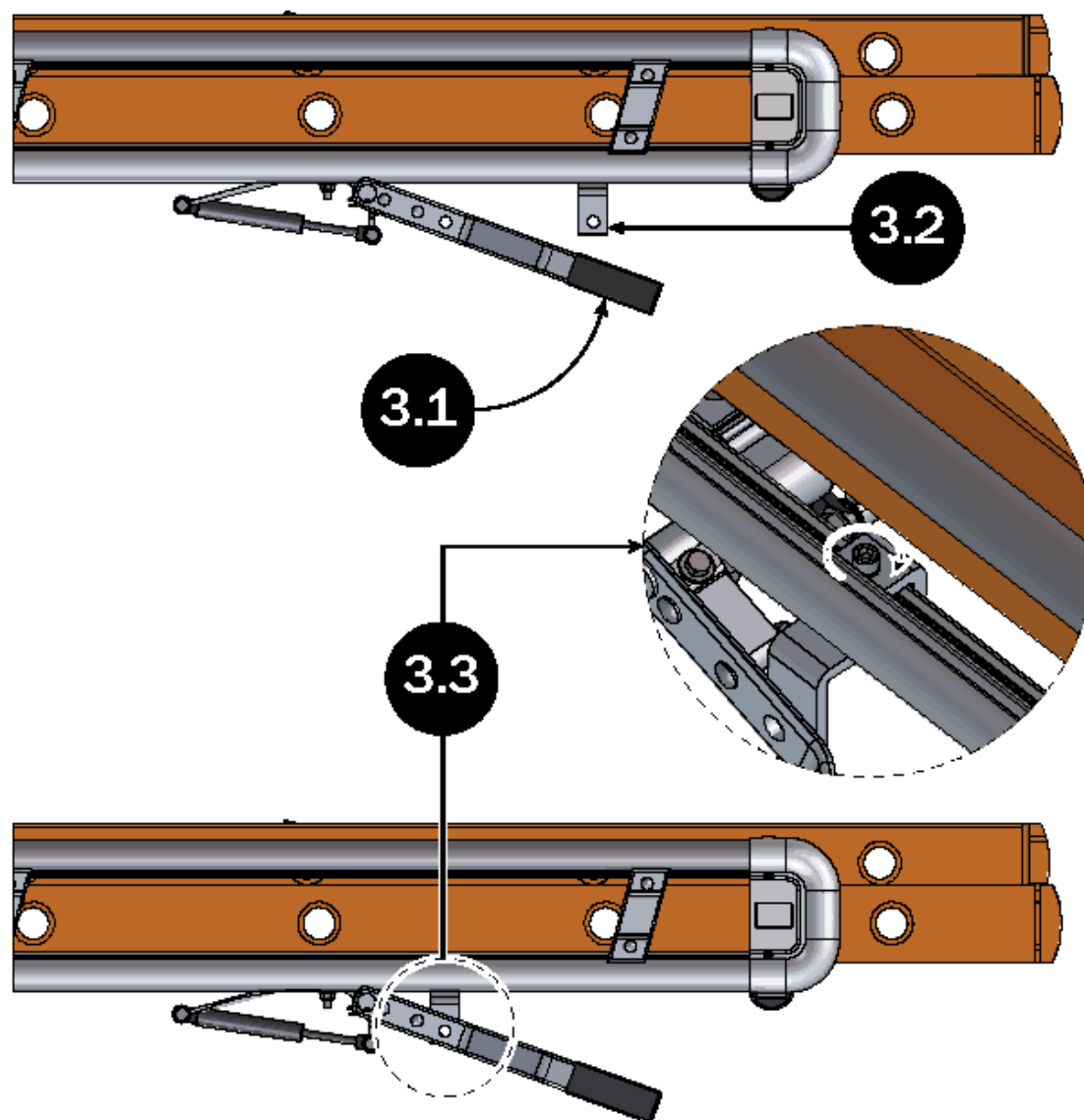
Rear Handle Latch

Step 3.1—Apply slight upward pressure to the Quick Clamp's handle.

Step 3.2—Slide the Quick Clamp handle latch in either direction until the lock hole aligns with the handle's lock hole.

Step 3.3—Torque the handle latch nuts to 130 in-lbs.

Note: A padlock (not shown) can now be used to secure the ladder to the ladder rack. Padlocks are not supplied with any Prime Design ladder rack.



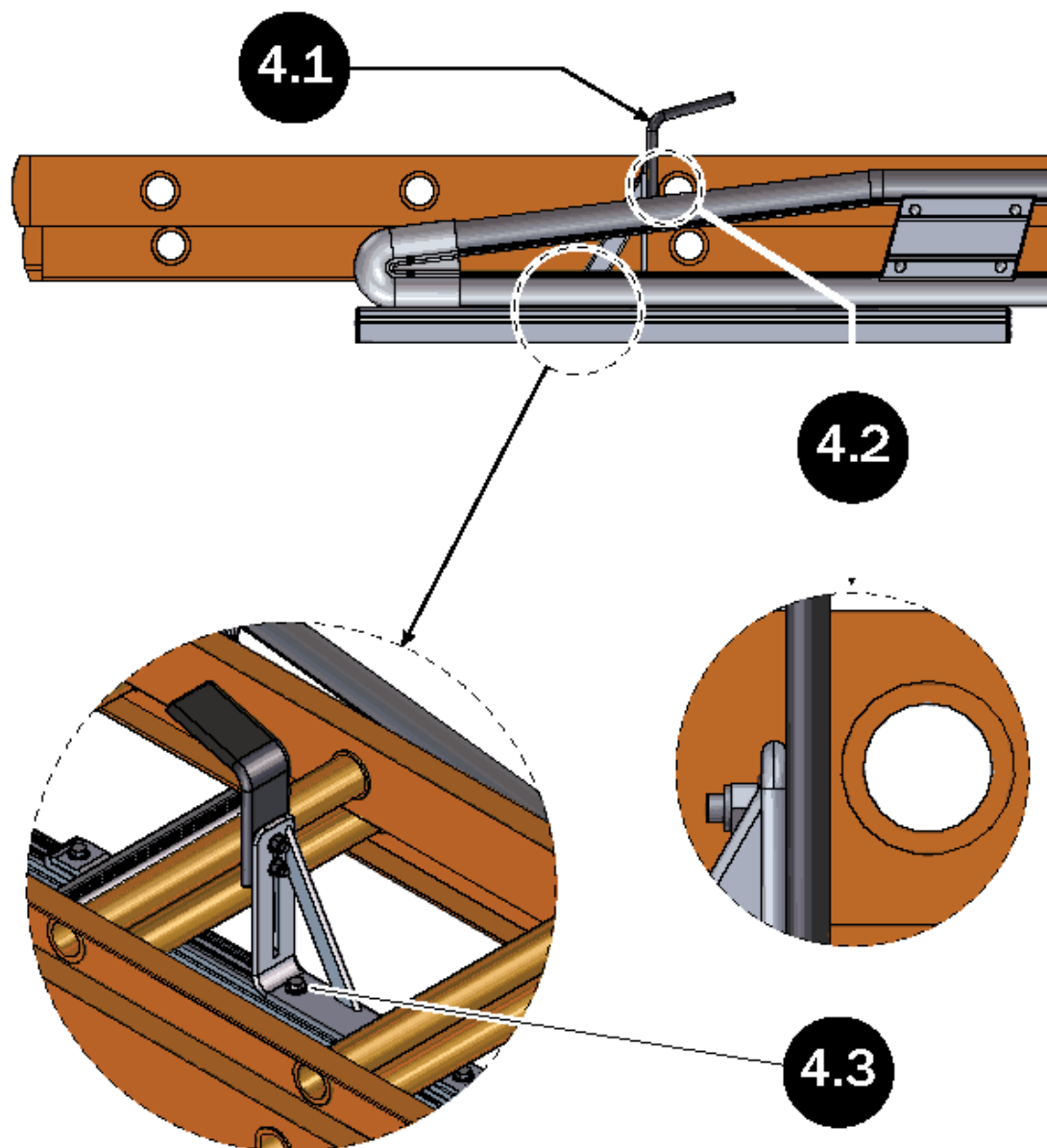
Quick Clamp System

Front Adjustable Hook

Step 4.1–Slide the front ladder hook base until it contacts the ladder rung.

Step 4.2–The ladder hook must rest against the ladder rung as shown.

Step 4.3– While keeping moderate tension against the ladder's rung, torque the front ladder hook base bolts to 130 in-lbs.



Quick Clamp System

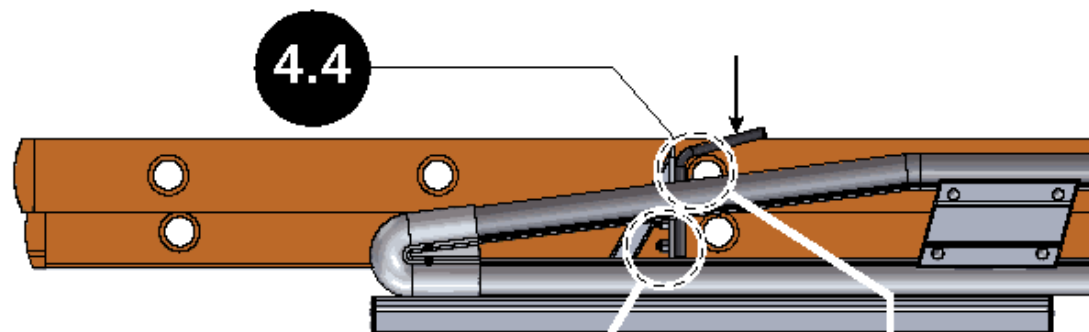
Front Adjustable Hook

Step 4.4–Slide the front ladder hook down until it contacts the ladder rung.

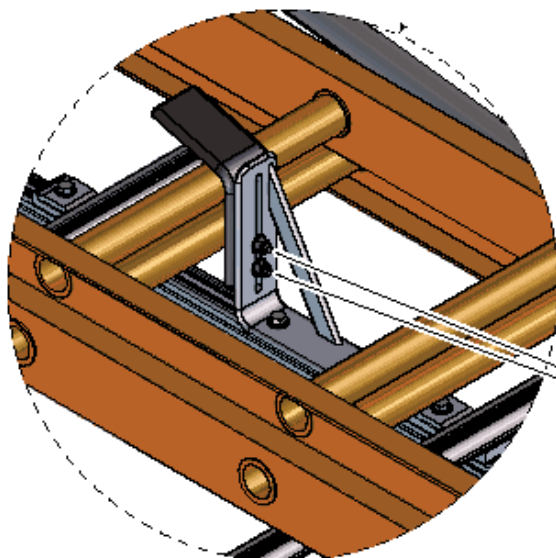
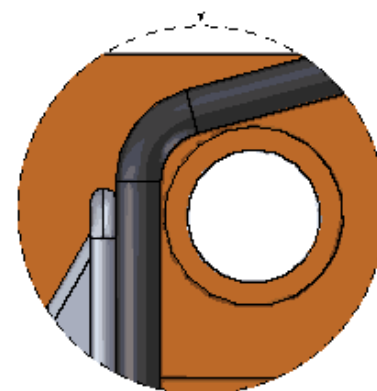
Step 4.5–The ladder hook must rest against the ladder rung as shown.

Step 4.6–Torque the front ladder hook nuts to 130 in-lbs.

Note: If steps 4.1-4.6 have been correctly followed, the Quick Clamp handle will securely clamp the ladder in place with slight upward pressure to the handle. If the handle and handle latch holes do not align, readjust the handle latch location, or move the front ladder hook to relieve excess pressure on the rear ladder hook assembly.



4.5



4.6