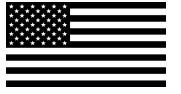


# ORION VAN GEAR

Sprinter Wheel Wrap Ladder

Proudly Made in Oregon



**INSTALLATION GUIDE** v2

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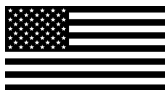
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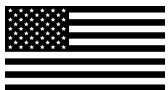
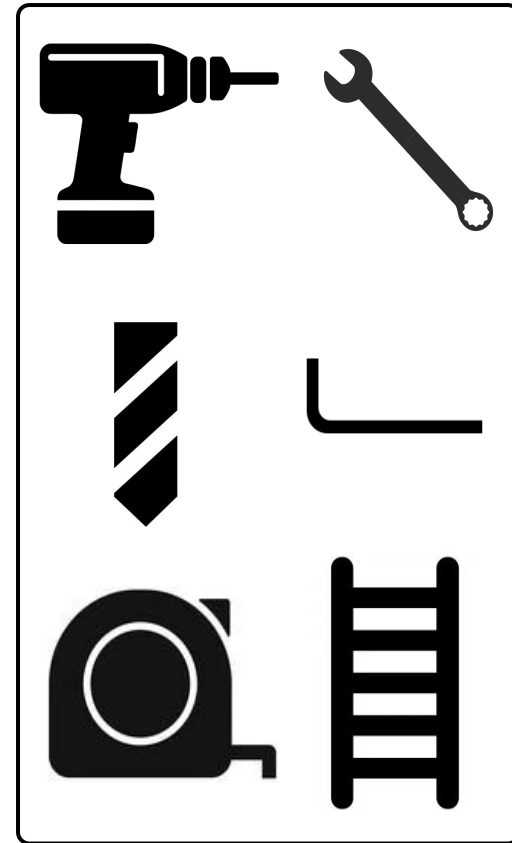
## MATERIALS REQUIRED

### REQUIRED

- 1x 7/16" Wrench
- Drill Set
  - 1/8" Drill Bit
  - 9/32" Drill Bit
- 1x 5/32" Ball End Allen Key (For 1/4"-20 Hardware)
- 1x Blue Threadlock (Medium Strength)  
[RECOMMENDED ON T-NUT HARDWARE]
- 1x 1 oz Anti-seize Lubricant  
[RECOMMENDED ON ALL NYLON LOCKNUT JOINTS]
- 1x Step Ladder

### RECOMMENDED

- 1x Extra Person
- Extra Rags (to keep things clean)
- 1x Tape Measure
- Mild Soap + Warm Water (to clean off excess anti-seize)

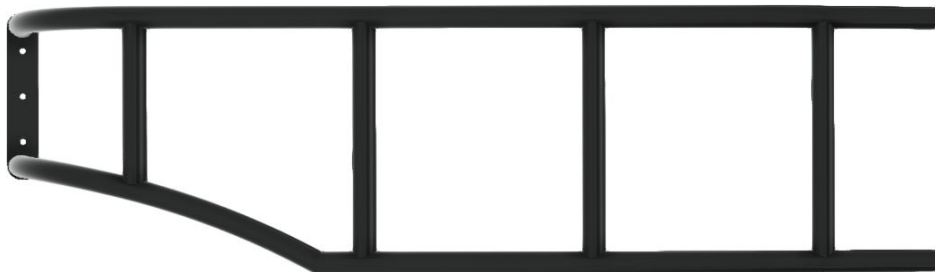


*\*Included hardware shown on next page*

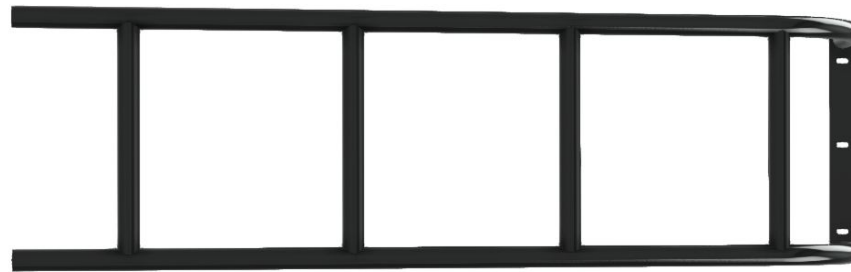


# INCLUDED HARDWARE

Ladder (bottom)



Side Ladder (top)



Bayonet

2x



Seam Plate (4 hole)



Bottom Plate



## 1/4"-20 Hardware

BUTTON-HEAD SCREWS



4x  
1 1/4" BL

8x  
5/8" BL

6x  
1" BL

WASHERS



20x  
Black

HEX NYLON NUT



10x

OPTIONAL (No Rack Install)

\*ROOF RAIL BRACKET

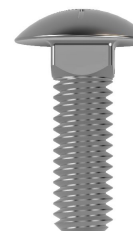


\*TRACK WASHER  
(ROOF ADAPTER)



2x

\*CARRIAGE BOLTS (5/16-18)



1" SS

2x



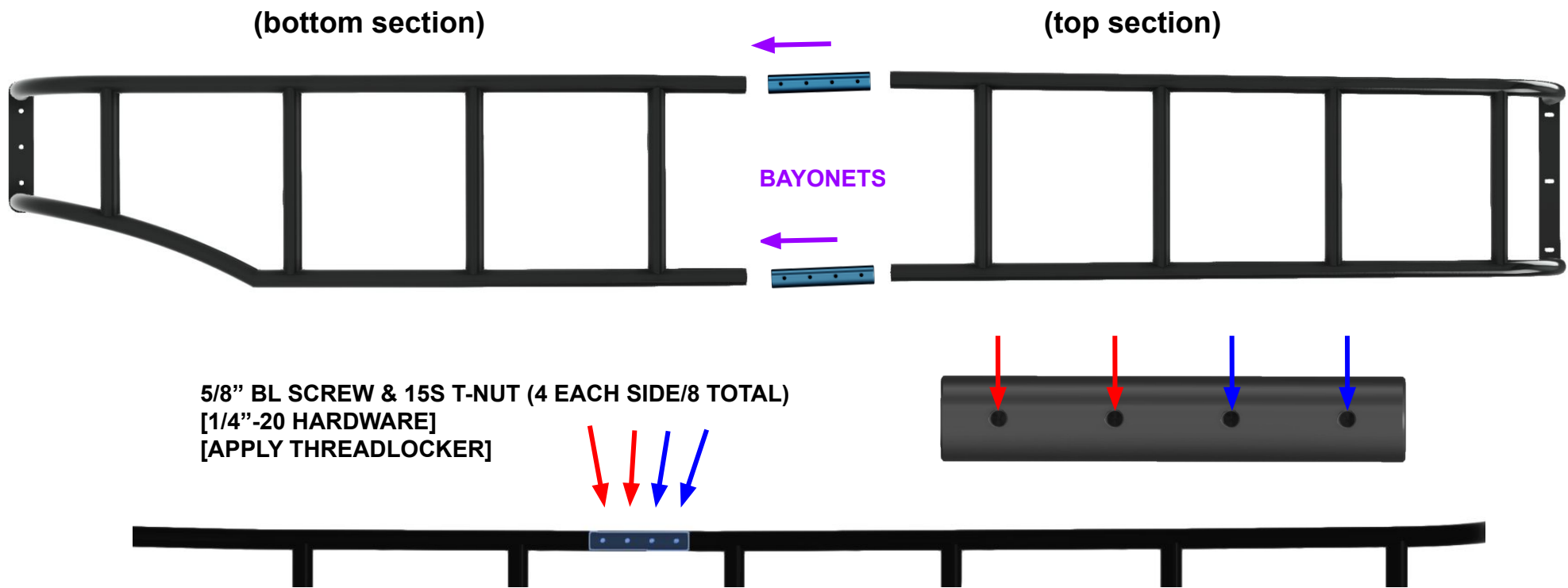
## STEP 1

**1A** - Slide the 2x BAYONETS into the bottom ladder section making sure to align the threaded holes on the BAYONET with the holes on the ladder.

**1B** - Insert 4x 5/8" SCREWS through the ladder into the BAYONETS. (Apply Threadlocker)

**1C** - Join the top and bottom ladder sections together and Insert remaining 4x 5/8" SCREWS (Apply Threadlocker)

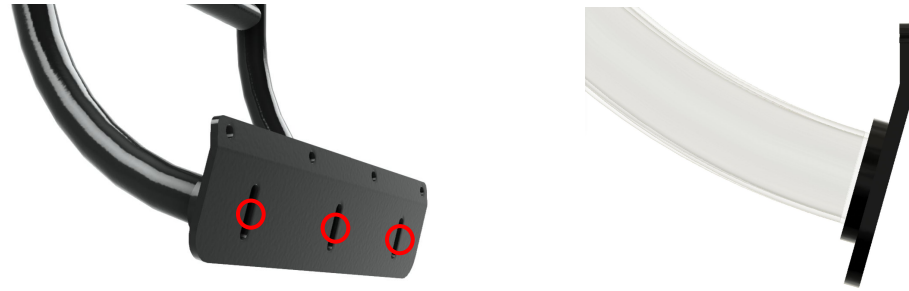
**1D** - Tighten all SCREWS.



## STEP 2

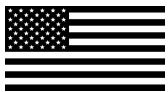
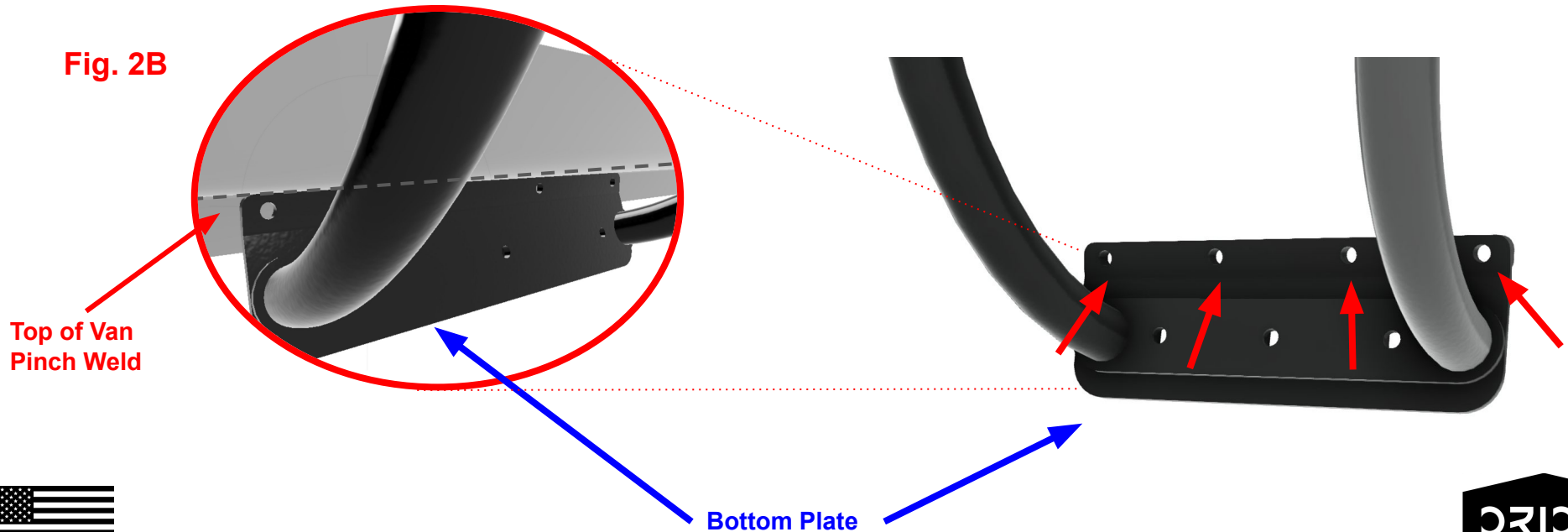
2A- Loosely attach the **BOTTOM PLATE** to the ladder as illustrated in **Fig. 2A** using 3x 1" **SCREWS**, 6 **WASHERS**, and 3 **NYLOCK NUTS**. (Apply Anti-Seize) Position the plate so the nuts are centered in the slot to allow for adjustment later.

Fig. 2A



2B- Next, position the ladder so the top of the **BOTTOM PLATE** sits flush towards the top of the **van's pinch weld** as illustrated in **Fig. 2B**. Keep in mind where the top of the ladder accesses your roof in relation to solar panels, deck panels, and empty space. Using the 4 holes on the **bottom plate** as a template, mark and drill holes into the van's pinch weld. Use a 1/8" drill bit for the pilot holes followed by a 9/32" bit for the final hole size. *It's recommended to paint the holes after they are drilled.*

Fig. 2B

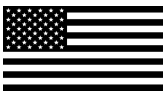
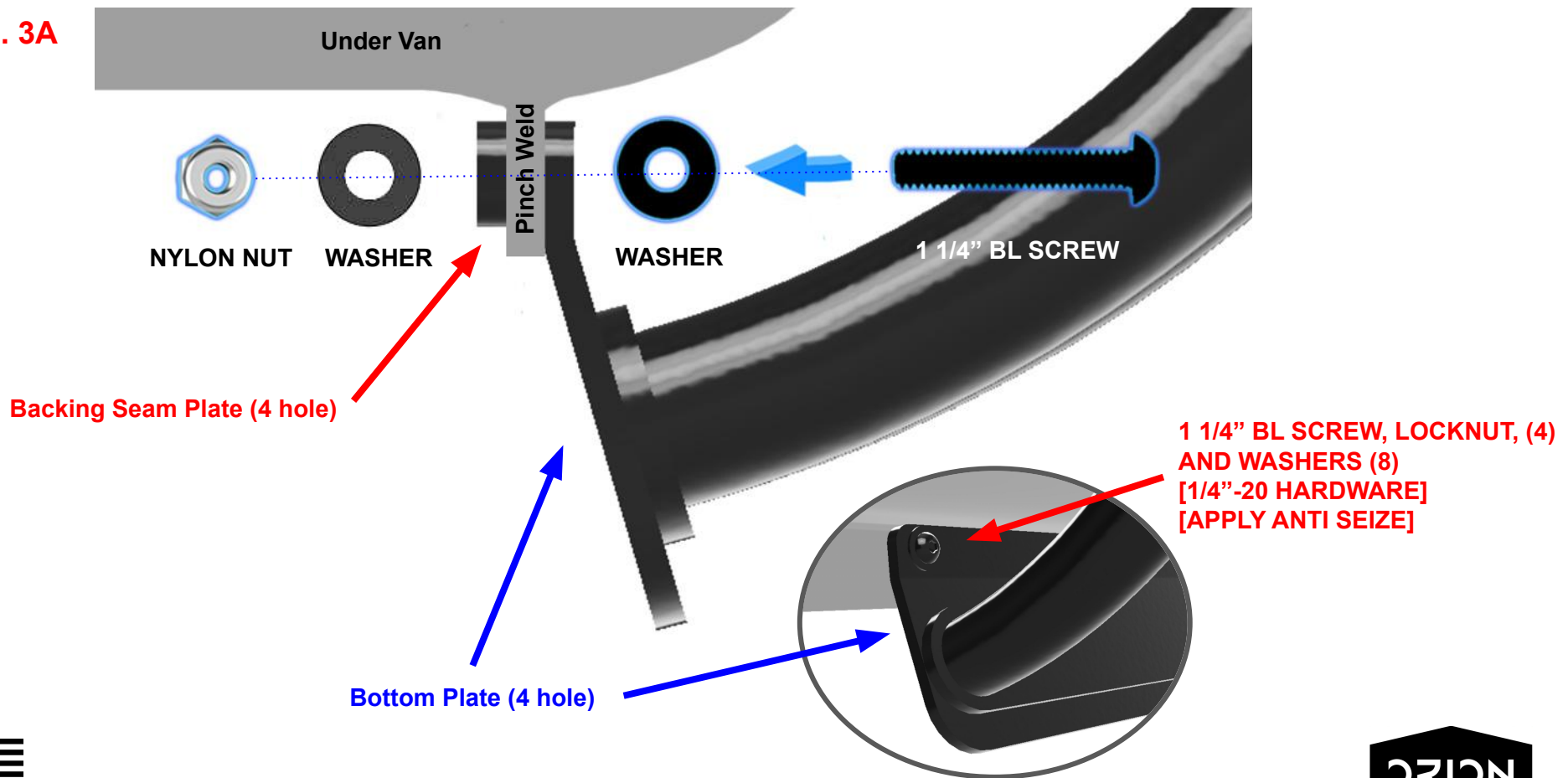


### STEP 3

3A- Use 4x 1.25" SCREWS, 8x WASHERS, and 4x NYLON NUTS to grip the BOTTOM PLATE, pinch weld, and backing SEAM PLATE. Use the order specified in Fig 3A below. (Apply anti-seize)

3B - Have someone hold the top of the ladder so it doesn't rub against the rack on top as you tighten the 4 seam plate connections.

Fig. 3A



## STEP 4

**4A-** The top of the ladder mounts directly to the side of the Stealth+ rack **Fig 4A**. Alternatively, it can be mounted without the rack using our optional roof bracket and hardware as shown in **Fig 4B**.

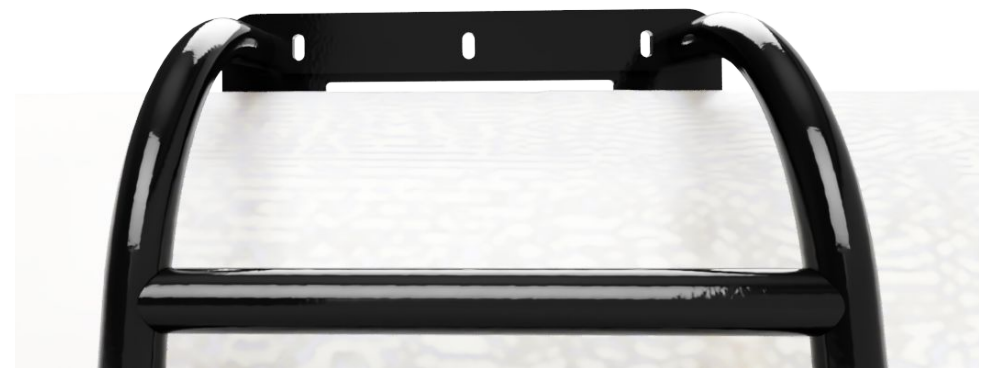
**4B-** Carefully lean the ladder towards the van until the top touches the rack. Adjust the position of the ladder as desired. If you need to adjust the ladder up or down loosen the 3 bolts on the bottom plate from step 2A. Once you have it in the desired position use the 3 holes on the **top of the ladder** as a template, mark and drill holes into the side of the roof rack. Use a 1/8" drill bit for the pilot holes followed by a 9/32" bit for the final hole size. *It's recommended to paint the holes after they are drilled.*

**4C-** Hold the ladder in position and loosely attach the top connections using 3x 1" SCREWS with 6x WASHERS, 3x NYLON NUTS. Screws should be hand tight minus 1 turn to allow adjustment in the next step. (Apply AntiSeize)

**Fig. 4A**



**Fig. 4B**





## STEP 5

**5A- Make final adjustments and tighten all connections.**

**5B- Please write a review (takes less than 1 minute!**

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Positive reviews from awesome customers like you help others to feel confident about choosing Orion Van Gear too. Not only do reviews improve our products but they let others know that we care just as much about providing quality customer service as we do about making exceptional van products. We will be forever grateful if you take 60 seconds to share your experience along with a few pictures of the ladder on your van. Thank you in advance for helping us out.




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