

# **2021+ Santa Cruz VentureTec Overland Adventure Rack System Mounting**

Congratulations on your purchase of a high quality PUTCO product. Should you need any application or technical assistance, feel free to call us at: 1-800-247-3974

Monday-Friday 8:00 a.m. - 5:00 p.m. (Central Standard Time)

Contact your PUTCO dealer for other quality accessories.

**Please read all instructions before installation and to check to see that all parts are included.**

<b>KIT CONTENTS:</b>	
<b>Description</b>	<b>Qty.</b>
Rear Hoop	1
Side Rail	2
Top Rail	2
Venture TEC End Cap	2
Roof Bracket L/R	2
Front Bracket L/R	2
Upper Claw Bracket	2
Lower "L" Bracket L/R	2
Roof Spacer	4
CoreTEC Block Insert	6
Rack Hardware Kit	1

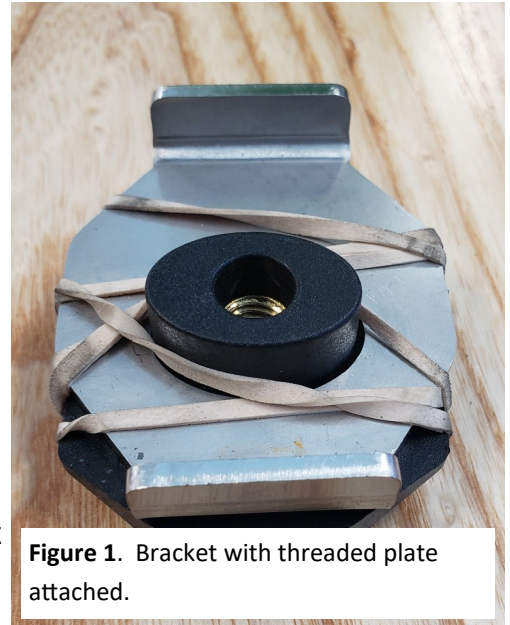
## **Tools Needed:**

- 10mm Socket
- 4mm Hex Key
- 3/16 Hex Key
- 7/32 Hex Key

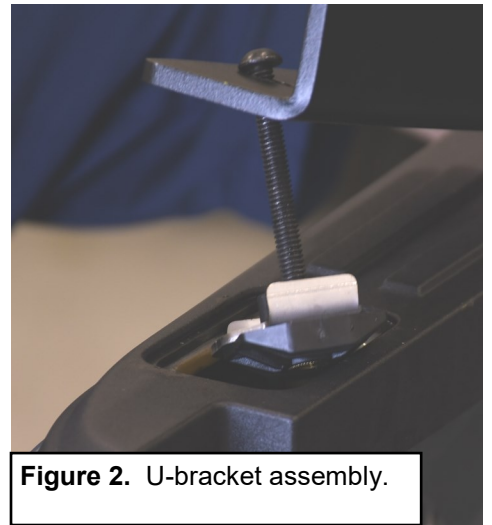
### Mounting Instructions:

The rear hoop is secured to the vehicle using a U-bracket. This process is easier with the help of a friend.

1. Use X-Acto knife/razor blade to cut open stake pocket (if not already exposed).
2. Use rubber bands to hold threaded plates to mounting brackets. Make sure threaded hole is not obstructed (Figure 1).
3. Run the 3.25" bolt through the rear hoop, and loosely thread on the U-bracket assembly. Leave as much bolt unthreaded as possible to allow maneuverability in the stake pocket (Figure 2).
4. Install the U-bracket assembly into the stake pocket by angling it into the stake pocket and then pulling up on the bolt. Make sure that the U-bracket grabs the inner lip of the stake pocket sheet metal, and the bolt hole is offset towards the inside of the truck. Once the U-bracket is located properly, pull up on the hoop to hold the U-bracket in position. Keep pressure on the bracket by holding the hoop up and begin tightening the bolt with 3/16" hex driver (Figure 3). Do not fully tighten yet.
5. Repeat process on other side of hoop, but do not fully tighten until longitudinal support rails are installed and hoop is centered on vehicle.



**Figure 1.** Bracket with threaded plate attached.



**Figure 2.** U-bracket assembly.



**Figure 3.** Tightening fastener while keeping pressure on bracket.

6. Install the front brackets using the same process as the rear hoop.
7. On top of the vehicle, remove the four plastic covers to reveal the bolts holding on the plastic trim piece (Figure 4). Remove the four bolts using the 10mm socket.

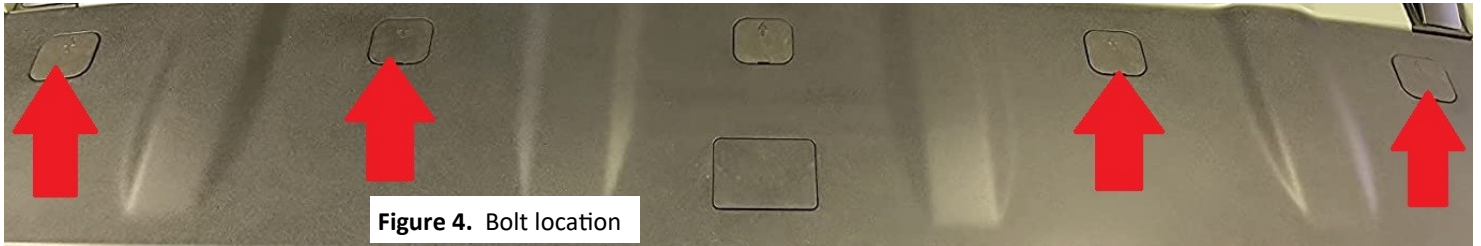


Figure 4. Bolt location

8. Put a spacer in each of the four holes. Install the top brackets using the M6x40 bolts making sure of correct orientation.

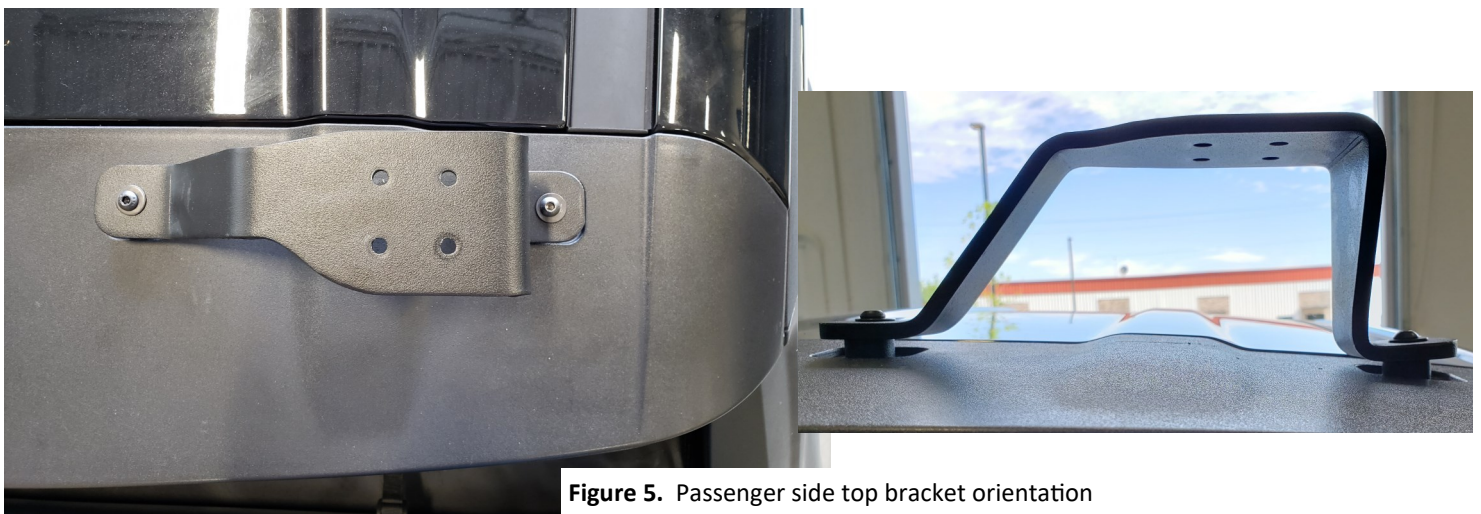
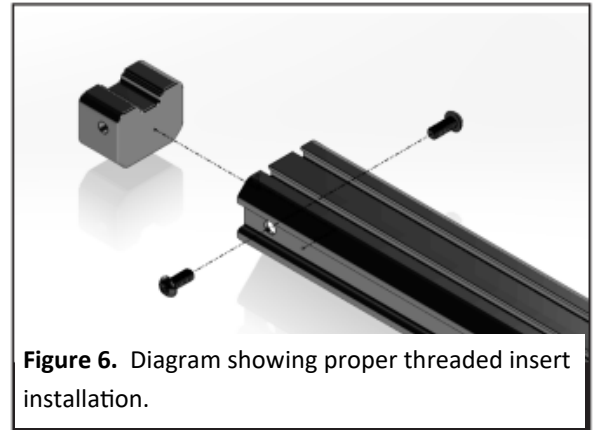


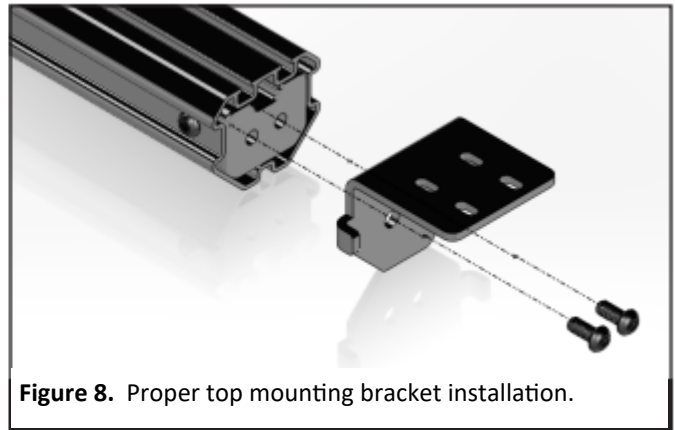
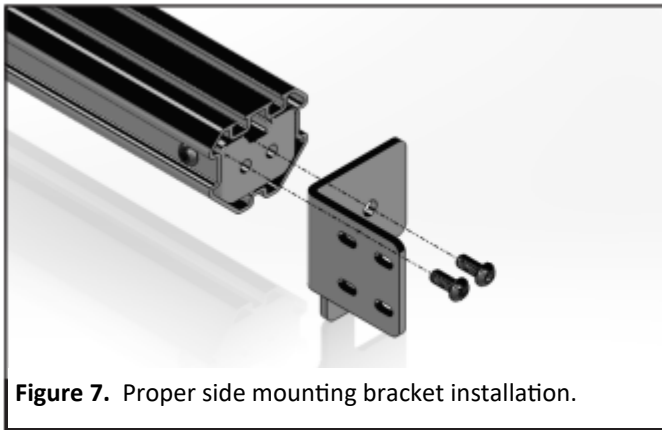
Figure 5. Passenger side top bracket orientation

## Support Rail Instructions:

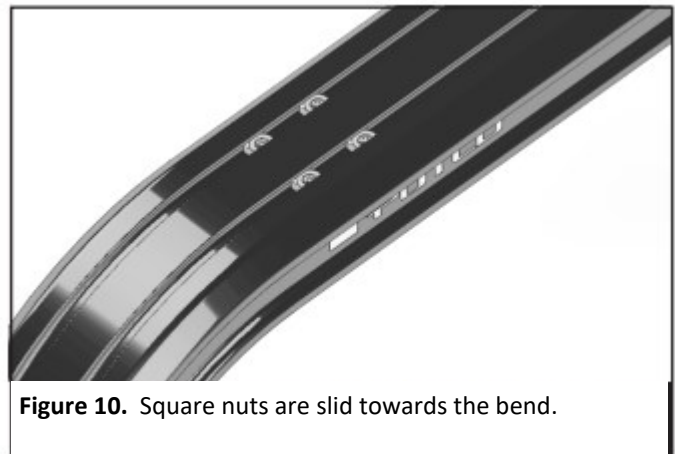
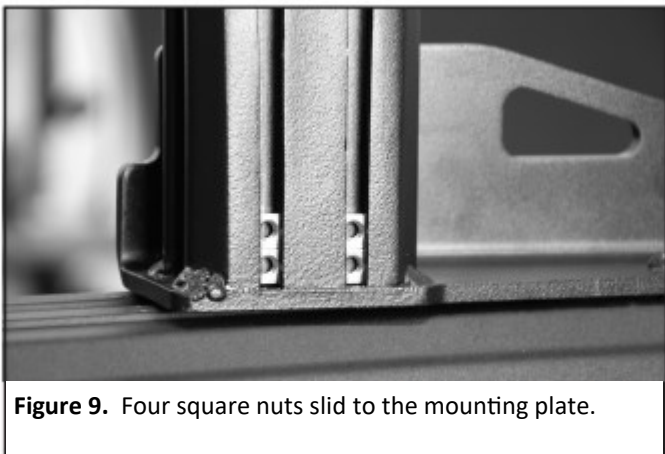
1. Locate the four support tubes. Slide CoreTec threaded insert into tube. The offset threaded holes should be towards the inside of the rail (Figure 6). Fasten it into place using 3/8" x 5/8" bolts. When properly installed, the CoreTec insert should be flush with the end of the tube. The upper tubes (the longer pair) only receive a CoreTec insert in one end.



2. Locate the rail mounting brackets for the rack. Position the rail mounting brackets as shown in Figures 7 and 8. Figure 7 shows the correct setup for the brackets that mount on the side of the hoops, and Figure 8 shows the correct setup for brackets that mount on the top of the hoops.

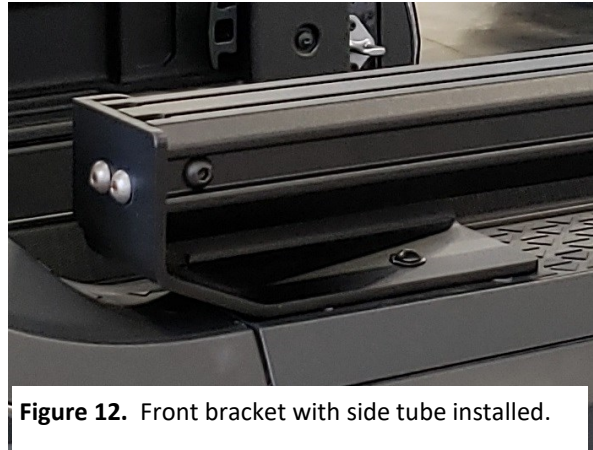
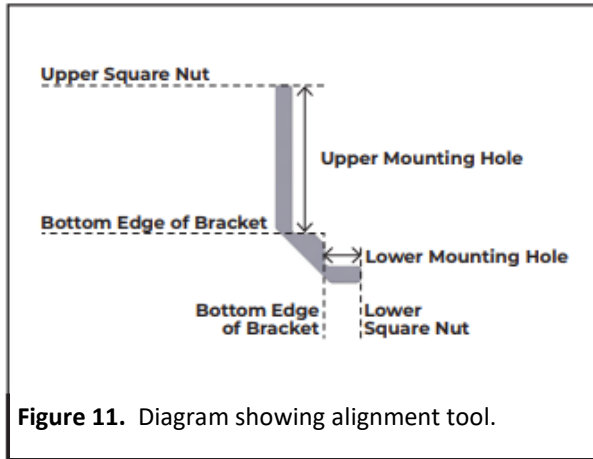


3. Insert 8 square nuts into each channel of the rear hoop. Slide square nuts down to the mounting plate, so that both sides of the hoop look like Figure 9. Position remaining square nuts in top channel near bend, as shown in Figure 10.

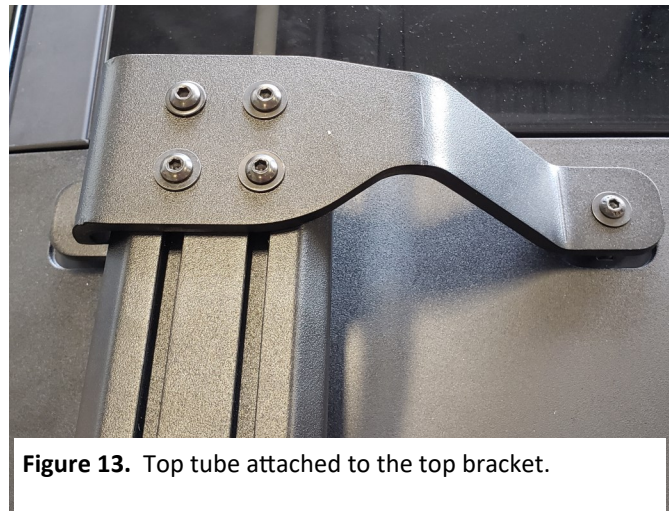




4. Locate the two side tubes. Starting with the top mounting holes, use the alignment tool to push square nuts into position by pressing the lip of the tool against the bottom edge of mounting bracket and the tip of the tool against the square nut (Figure 11). The long leg is used to align the top mounting locations, and the shorter leg is used to align the lower mounting locations. Fasten 1/4-20 bolts into square nuts. Fasten the front end of the tube to the front brackets with 3/8-16 bolts into the CoreTec inserts (Figure 12).



5. Locate the tubes for the top of the rack. Insert two square nuts into each channel of the tube and slide the square nuts to the front end of the tube. Fasten the tube to the top brackets with four 1/4-20x5/8" bolts with washers (Figure 13). Align the rear of the tube with the top brackets and slide the square nuts under the mounting holes. Fasten the bracket to the rear hoop with 1/4-20 bolts.



6. With all tubes in position, go back and tighten each bolt.

***Your new VentureTEC Rack is now  
successfully installed on your vehicle!***