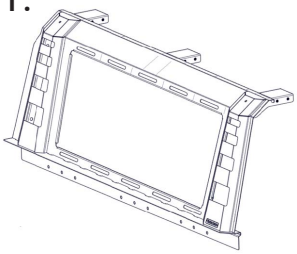
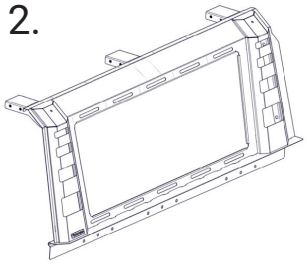
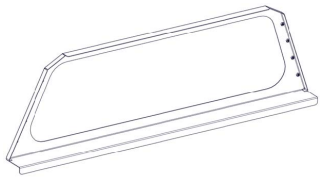
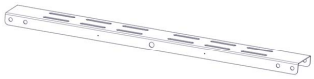
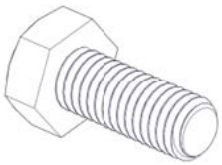
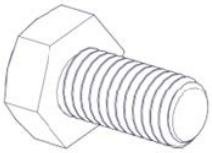
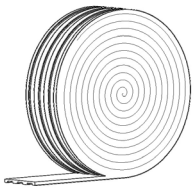
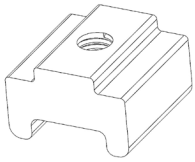
REALTRUCK

Ascend Rack
Toyota Tacoma

Part # RT298501

Components and Hardware:

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 
11. 
12. 
13. 

Components and Hardware:

1. Side Panel, Driver Side ..... (1)
2. Side Panel, Passenger Side ..... (1)
3. Cab Panel ..... (1)
4. Crossmember ..... (1)
5. Crossmember, Rear ..... (1)
6. Top Support Member ..... (2)
7. Side Accessory Bracket, Driver Side ..... (2)
8. Side Accessory Bracket, Passenger Side ..... (2)
9. M8 X 1.25 X 20mm Bolt ..... (56)
10. M8 Washers ..... (64)
11. M8 X 1.25 X 16mm Bolt ..... (8)
12. Rubber Seal ..... (Roll)
13. T-Nuts ..... (12)
14. RT298501-3 - 3rd Brake Light and Wiring Kit ..... (1)

Tools for Installation:

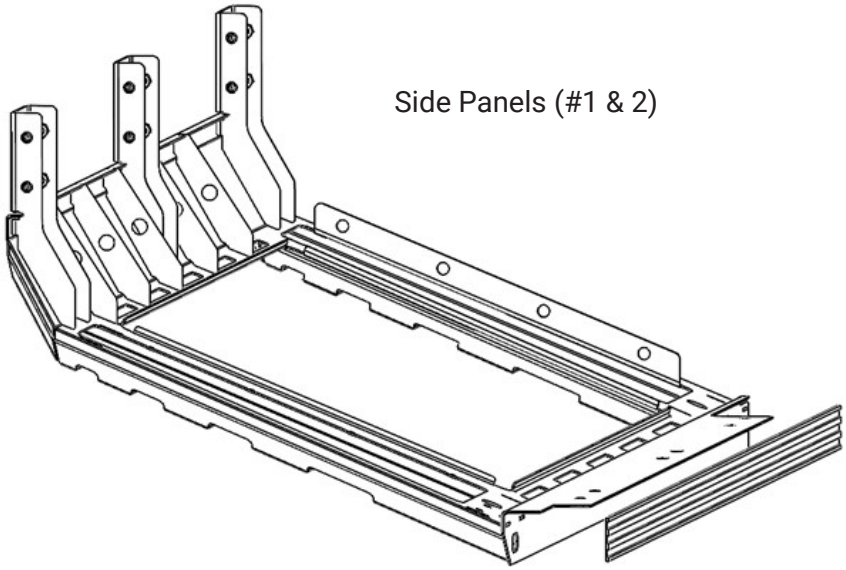
- Wire Snips
- Pliers
- 13mm Wrench
- Scissors or Cutting Tool
- Mild Soap
- Glass Cleaner
- Denatured Alcohol
- Cleaning Rags

Ascend Rack

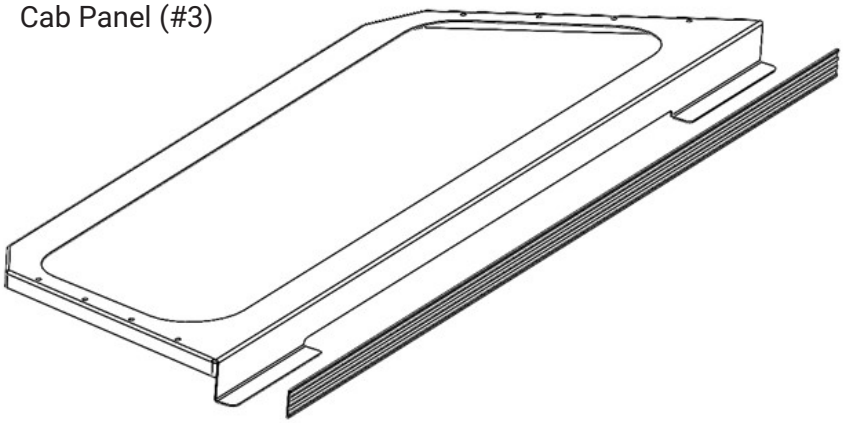
Prior to assembly - Rubber Seal

Measure the length of the bottom flange on both Side Panels (#1 & 2) and the Cab Panel (#3). Unroll the included Rubber Seal (#13) then cut to the length measured for each panel. Remove the adhesive film then firmly press the Rubber Seal (#13) onto each bottom flange.

Side Panels (#1 & 2)



Cab Panel (#3)



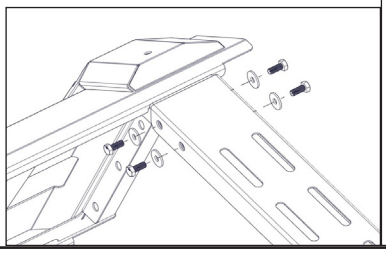
Ascend Rack

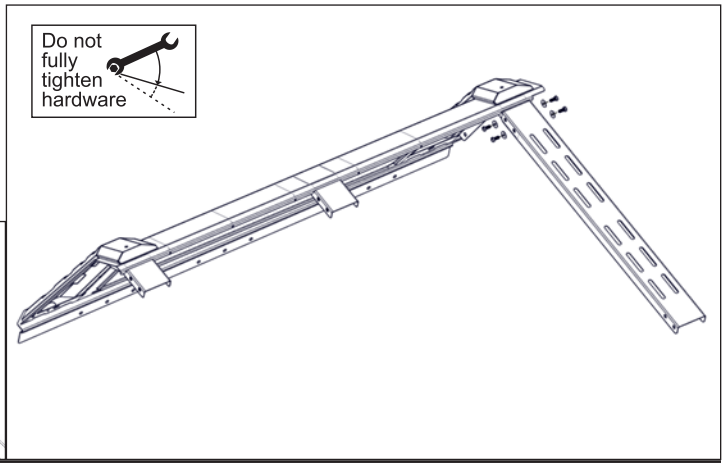


This installation recommends two people for lifting and assembly

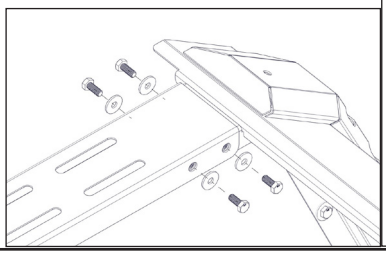
Assembling Ascend Rack

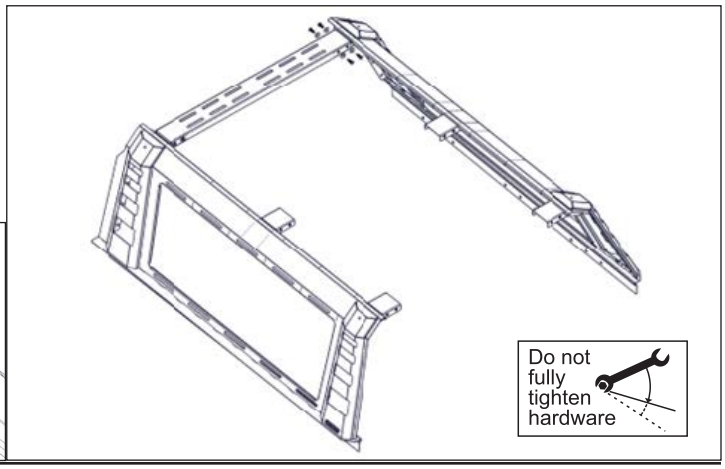
1. Starting in the front/cab, install Crossmember, Cab End (#4) to Side Panel, Driver Side (#1) with 2 M8 x 1.25 x 20mm Bolts (#10) and 2 M8 Washers (#11). Loosely fasten.





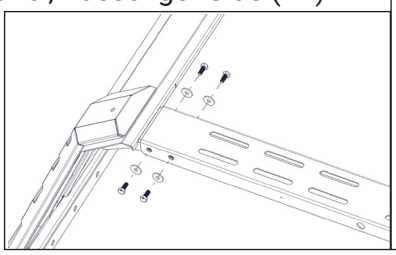
2. Install Side Panel, Passenger Side (#2) to Crossmember, Cab End from Step 1 with 2 M8 x 1.25 x 20mm Bolts (#10) and 2 M8 Washers (#11). Loosely Fasten.

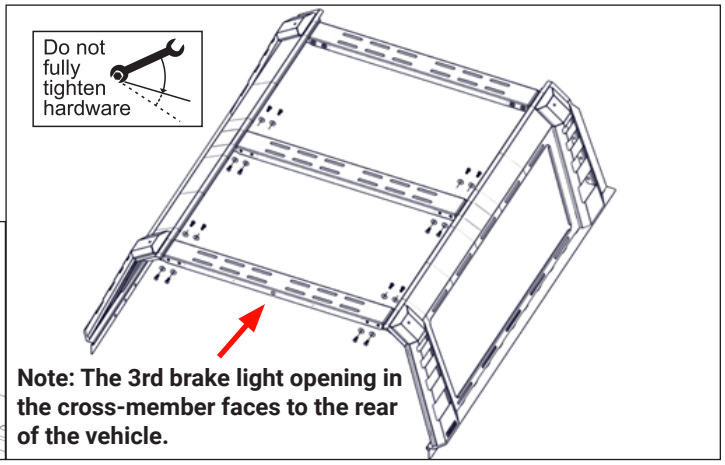




3. Working your way toward the rear/tailgate, install Crossmember, Middle (#4) to Side Panel, Driver Side (#1) from Step 1 and Side Panel, Passenger Side (#2) with 2 M8 x 1.25 x 20mm Bolts (#10) and 2 M8 Washers (#11). Loosely fasten.

Install Crossmember, Tail End (#5) to Side Panel, Driver Side (#1) from Step 1 and Side Panel, Passenger Side (#2) from Step 2 with
2 M8 x 1.25 x 20mm Bolts (#10) and 2 M8 Washers (#11) on each side. Loosely fasten.

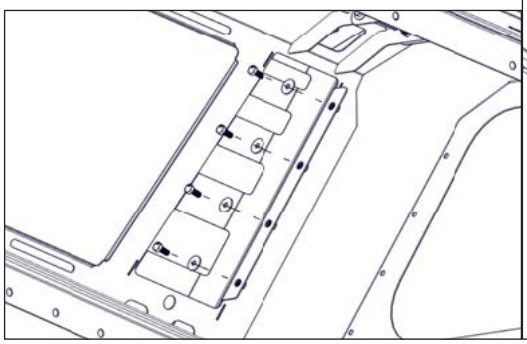


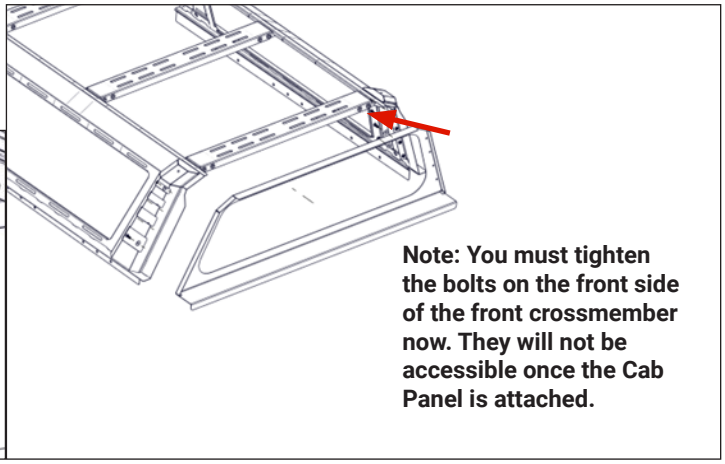


Note: The 3rd brake light opening in the cross-member faces to the rear of the vehicle.

Ascend Rack

4. Install Cab Panel (#3) to front of Side Panel, Driver Side (#1) from Step 1 and Side Panel, Passenger Side (#2) from Step 2 with 4 M8 x 1.25 x 20mm Bolts (#10) and 4 M8 Washers (#11) on each side.
Tighten the front crossmember bolts and leave the rest of the hardware loosely secured.

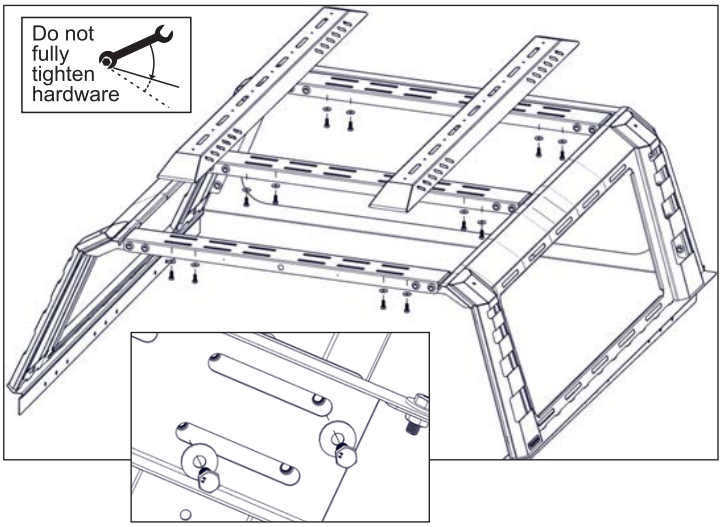




Note: You must tighten the bolts on the front side of the front crossmember now. They will not be accessible once the Cab Panel is attached.

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5. Install the 2 Top Support Members (#6) to the top of the rack using 4 M8 x 1.25 x 20mm Bolts (#10) and 4 M8 Washers (#11) on each support member.
Loosely fasten.

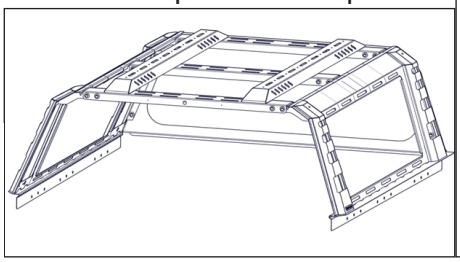


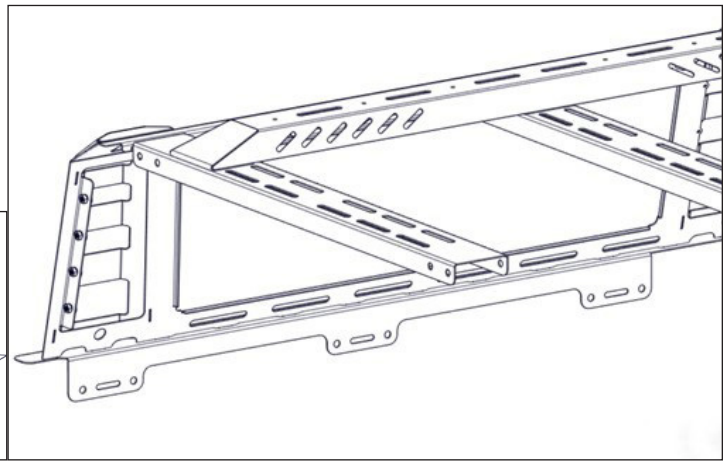
Preparing the Truck

Clean the truck and rear window of the cab and the truck's bed rails to remove all dirt and grime. To help protect the truck's bed finish, lay a piece of carpet or carboard down during installation. It is also recommended that you tape off areas of the truck that could be impacted by the rack during installaion.

Installing the Ascend Rack on the Truck Bed

6. Once the main shell is put together, it is recommended that you and another person lift the whole shell onto the truck bed. Make sure the flange at the bottom of the Cab Panel (#3) is over the front of the bulkhead behind the cab and the flange at the bottom of the Side Panel, Driver Side (#1) and Side Panel, Passenger Side (#2) are inside the plastic rail caps on each side.
Do not tighten anything down yet.

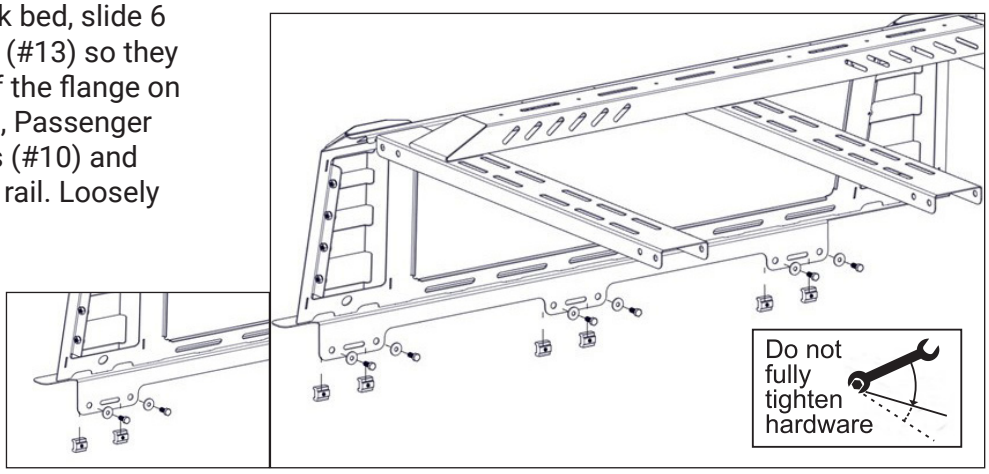






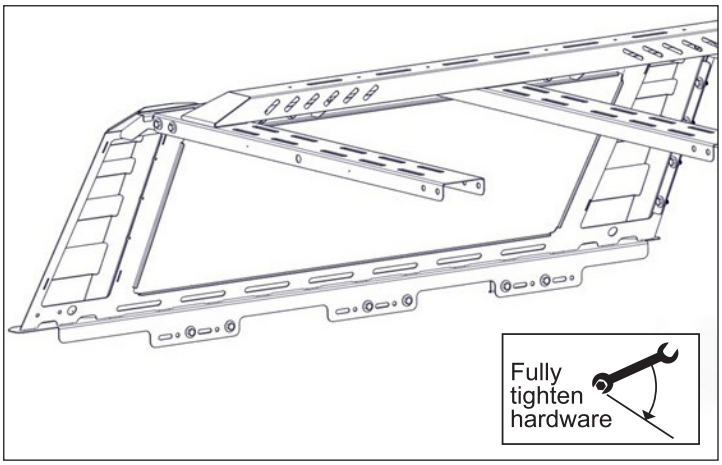
Ascend Rack

7. Once the main shell is on top of the truck bed, slide 6 T-Nuts (#13) into the rail. Space the T-Nuts (#13) so they align with the lower holes on the bottom of the flange on Side Panel, Driver Side (#1) and Side Panel, Passenger Side (#2). Using 6 M8 x 1.25 x 20mm Bolts (#10) and 6 M8 Washers (#11) attach the rack to the rail. Loosely fasten.



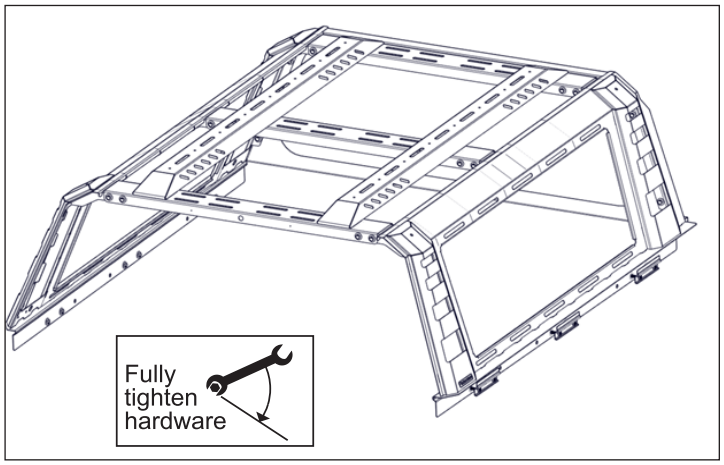
Final Adjustments

8. Make sure the rack frame is square on the truck bed and that your have all the components where they belong before tightening down all the bolts. Fully tighten hardware at this time.



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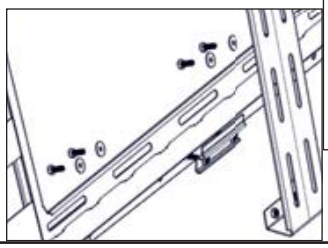
9. Fully tighten all hardware on main rack. Recommended torque is 14 ft lbs.

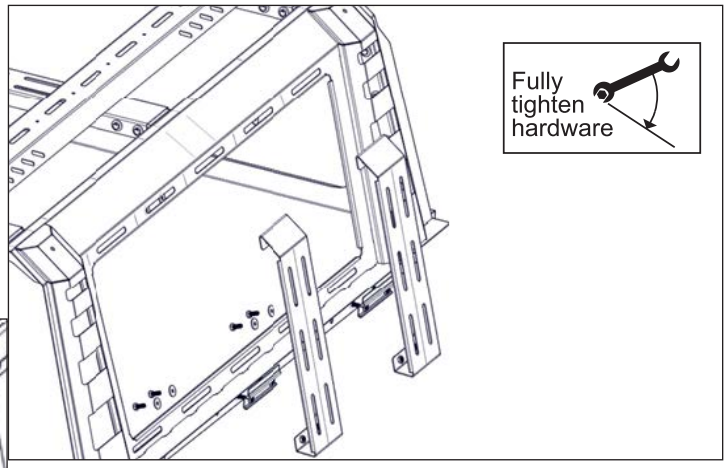


Ascend Rack

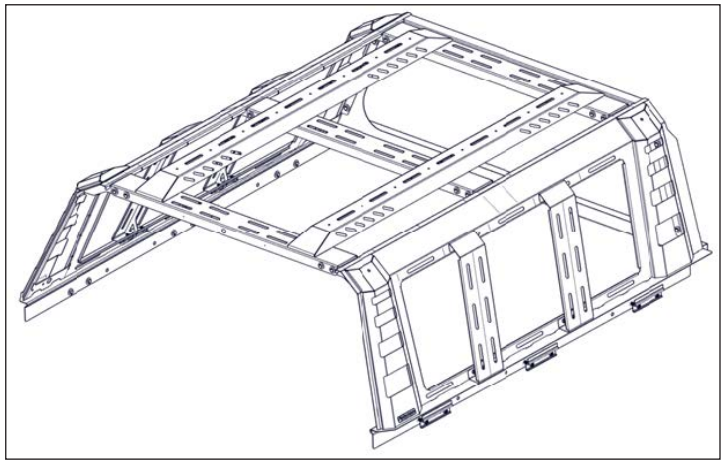
Installing Side Accessory Brackets

10. Install the 2 Side Accessory Bracket, Driver Side (#7) and 2 Side Accessory Bracket, Passenger Side (#8) to the Side Panels (#1 & 2) using 2 M8 x 1.25 x 16mm Bolts (#12) and 2 M8 Washers (#11) at the top. Use 2 M8 x 1.25 x 20mm Bolts (#10) and 2 M8 Washers (#11) at the bottom of each Side Accessory Bracket, Driver (#7) and Passenger Sides (#8). Fully tighten hardware.
Recommended torque is 14 ft lbs.



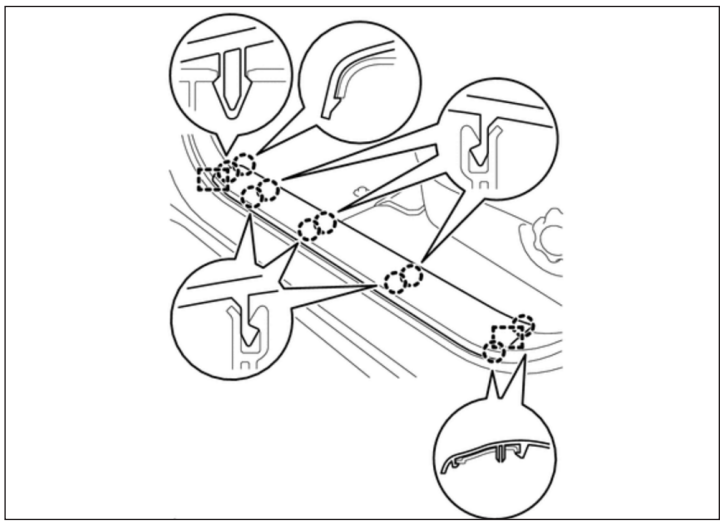


11. Install Complete.



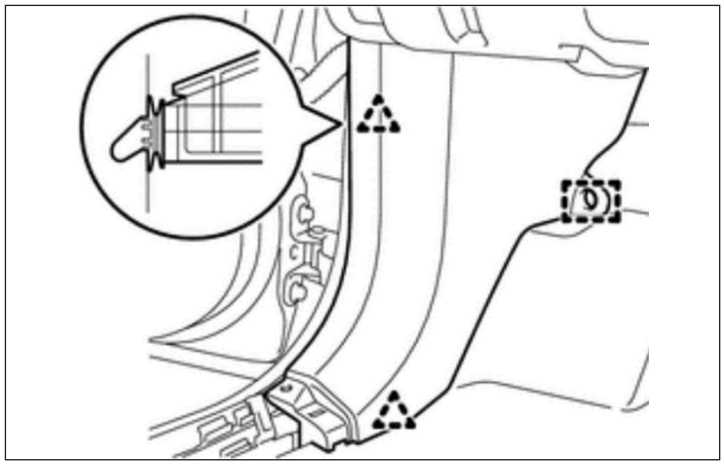
3rd Brake Light Wire Harness Installation

12. Carefully remove the door sill trim panel.



Ascend Rack

13. Carefully remove the driver's side cowl trim panel.



14. Once the trim part is removed, a cluster of wires will become visible.

There will be a 5-pin connector taped to the bundle of wires.

This 5-pin connector will contain purple, greeen, blue, black, and white wires.

Plug this connector into the corresponding connector on the provided T-harness.



Optional Cable Routing

From underneath the cab, feed the extension harness through the rubber grommet under the driver's side carpet.

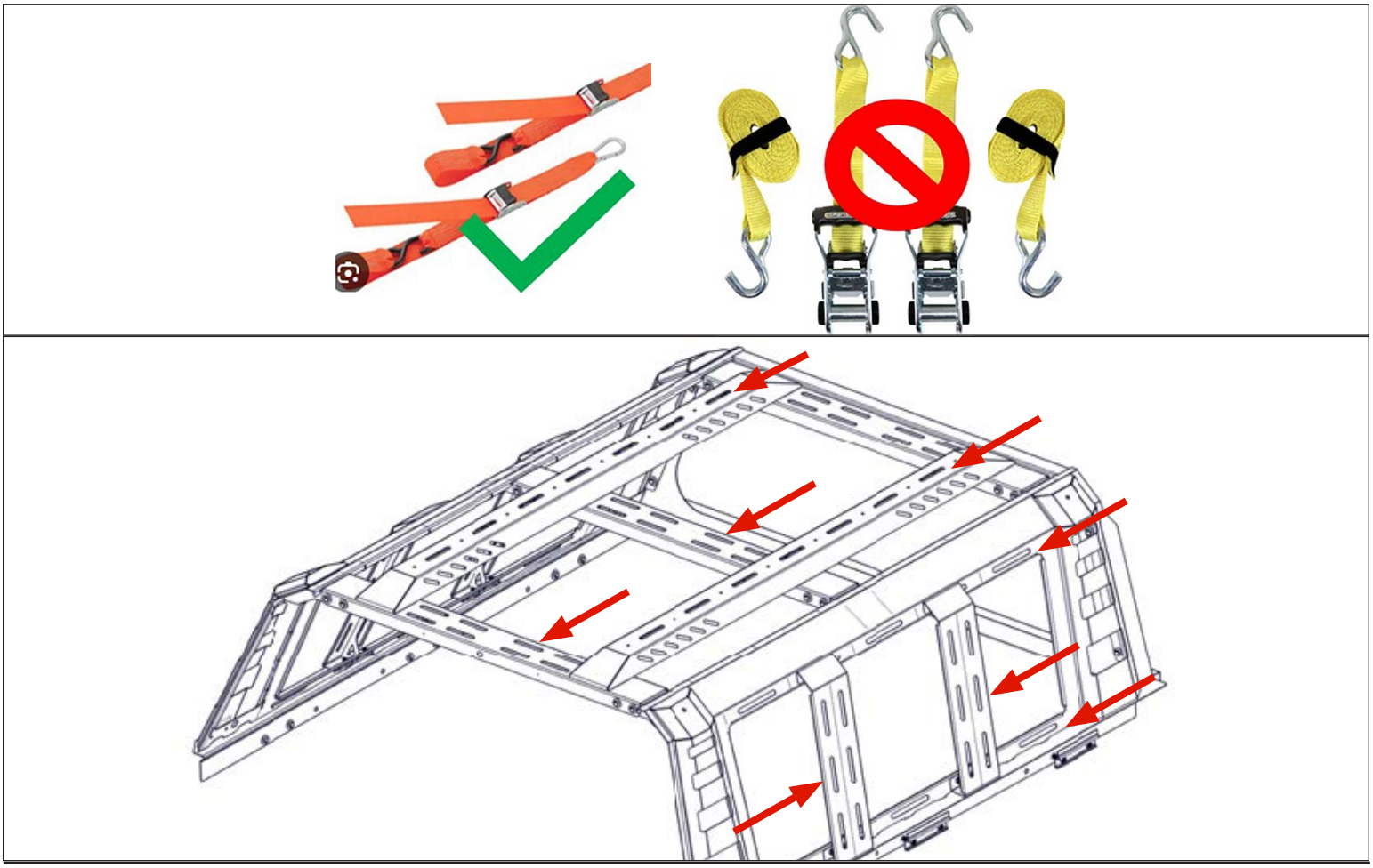
Run the extension cable up the left kick panel and over to the open plug on the T-harness.

Replace all panels and components following Steps 12 and 13 in reverse.



Ascend Rack

NOTE: The Ascend Rack is designed for the customer to bolt on accessories only, it was not designed for any type of ratcheting style tie-down straps (example shown below right). Straps with “cam” style buckles is recommended (example shown below left) as long as they are not used in conjunction with any type of force multiplier. The 2nd image shows where the “cam” style straps should be secured to the Ascend Rack. If ratcheting style straps are required, the installer should utilize the vehicles’ designated tie down loops.



Safety Guidelines

• Make sure to periodically check that bolts are tight.

• Ensure that all accessories are securely mounted.

• Do not exceed maximum load rating, Dynamic (Vehicle moving) - 500 lbs, Static (Vehicle parked) - 1000 lbs.

• Do not exceed maximum load rating of tent manufacturer, if applicable.

• Be aware of reduced clearance when accessories are mounted on top of the rack.

Warranty Information

See warranty information on RealTruck.com.