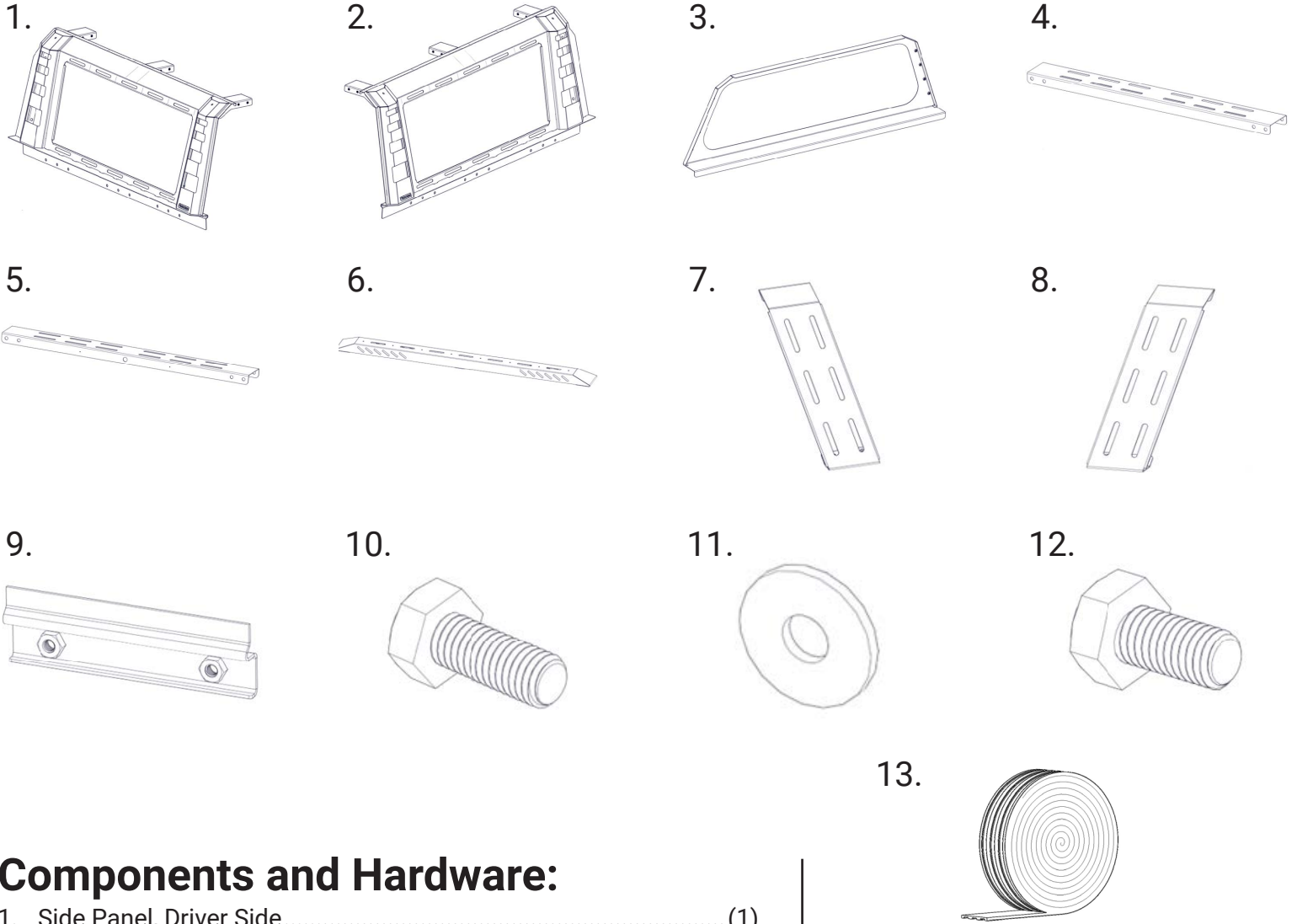


Components and Hardware:



Components and Hardware:

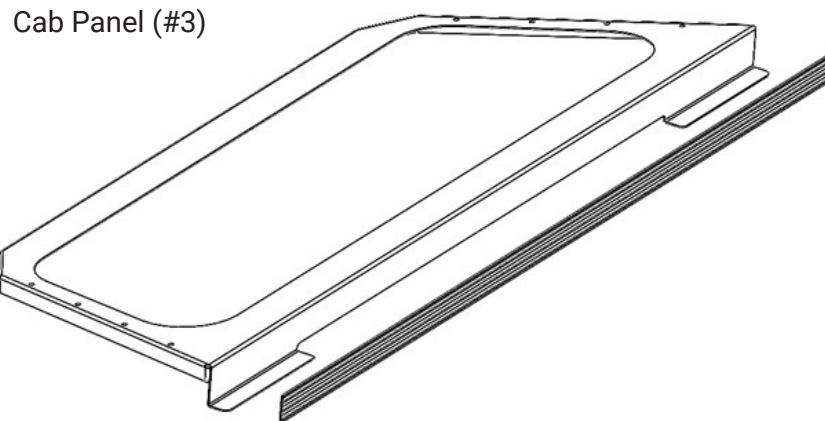
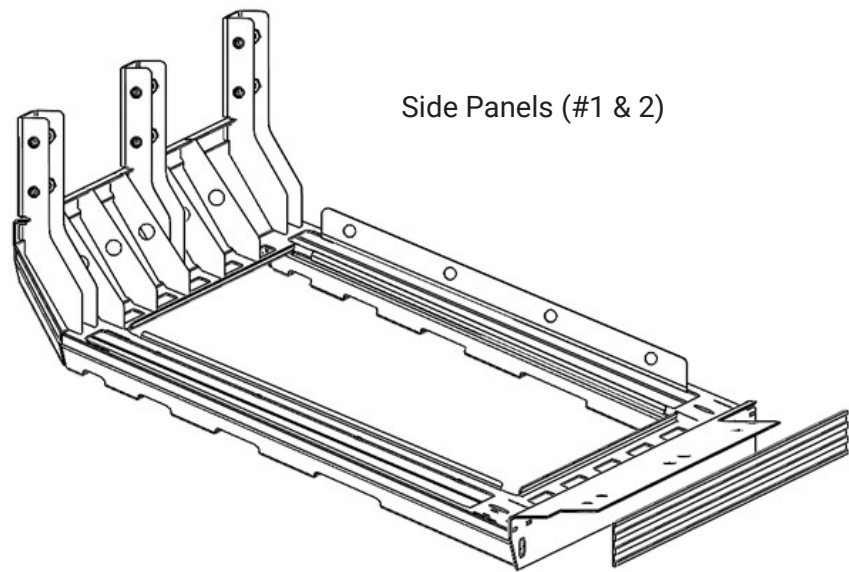
1. Side Panel, Driver Side.....	(1)
2. Side Panel, Passenger Side.....	(1)
3. Cab Panel.....	(1)
4. Crossmember.....	(1)
5. Crossmember, Rear.....	(1)
6. Top Support Member.....	(2)
7. Side Accessory Bracket, Driver Side.....	(2)
8. Side Accessory Bracket, Passenger Side.....	(2)
9. Bed Wall Mount Bracket.....	(6)
10. M8 X 1.25 X 20mm Bolt.....	(56)
11. M8 Washers.....	(64)
12. M8 X 1.25 X 16mm Bolt.....	(8)
13. Rubber Seal.....	(Roll)
14. RT298503-3 - 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.



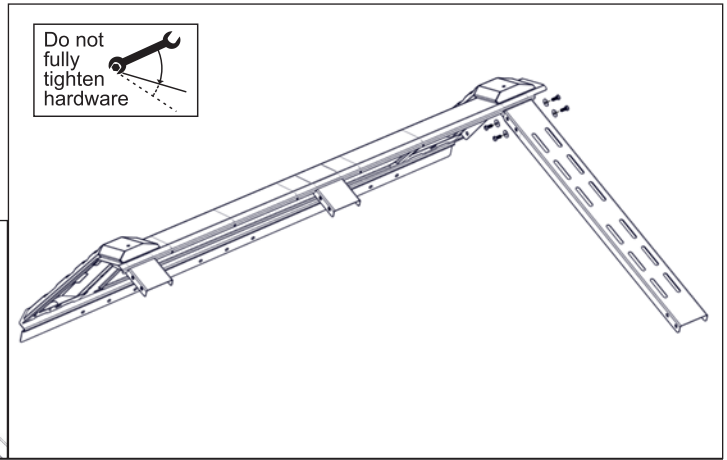
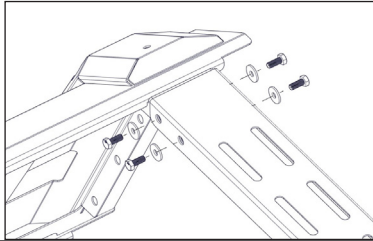
Ascend Rack



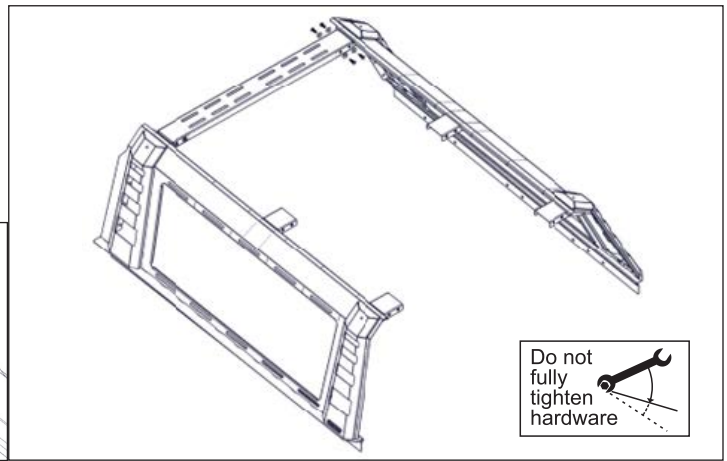
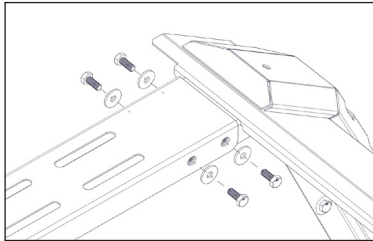
This installation recommends two people for lifting and assembly

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.

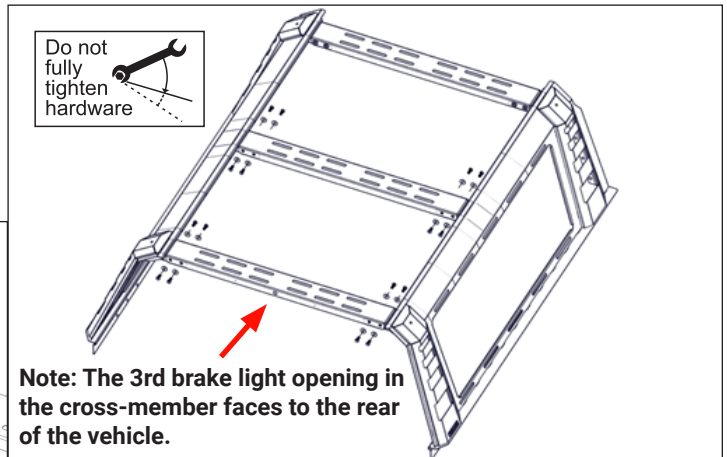
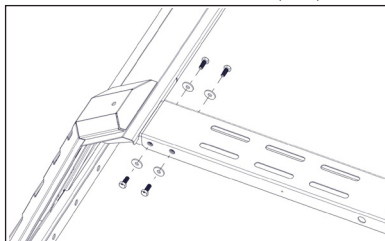


2. Install Side Panel, Passenger Side (#2) to Crossmember, Cab End from Step 1 with 2 M8 x 1.25 x 20mm Bolts (#10) and 2 M8 Washers (#11). Loosely Fasten.



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.

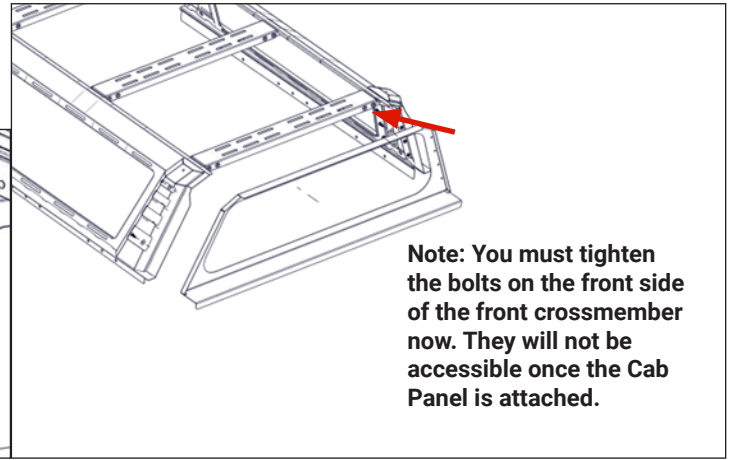
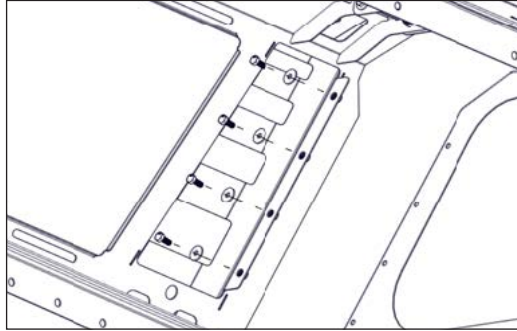
Install Crossmember, Tail End (#5) to Side Panel, Driver Side (#1) from Step 1 and Side Panel, Passenger Side (#2) from Step 2 with 2 M8 x 1.25 x 20mm Bolts (#10) and 2 M8 Washers (#11) on each side. Loosely fasten.



Ascend Rack

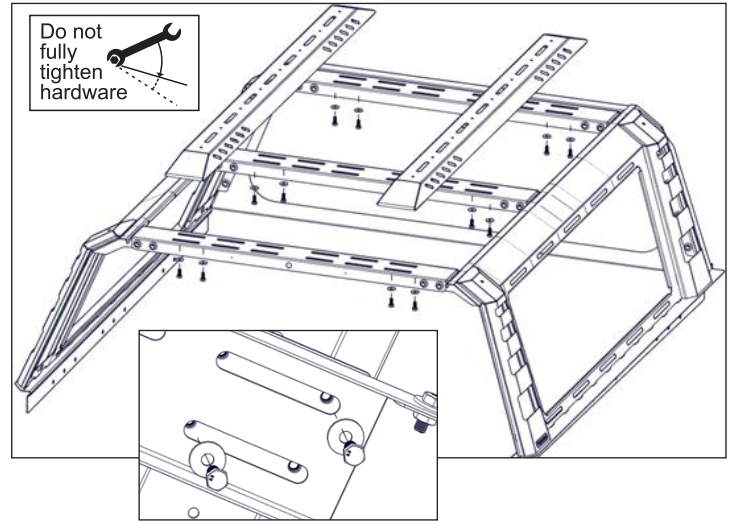
4. Install Cab Panel (#3) to front of Side Panel, Driver Side (#1) from Step 1 and Side Panel, Passenger Side (#2) from Step 2 with 4 M8 x 1.25 x 20mm Bolts (#10) and 4 M8 Washers (#11) on each side.

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.

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.



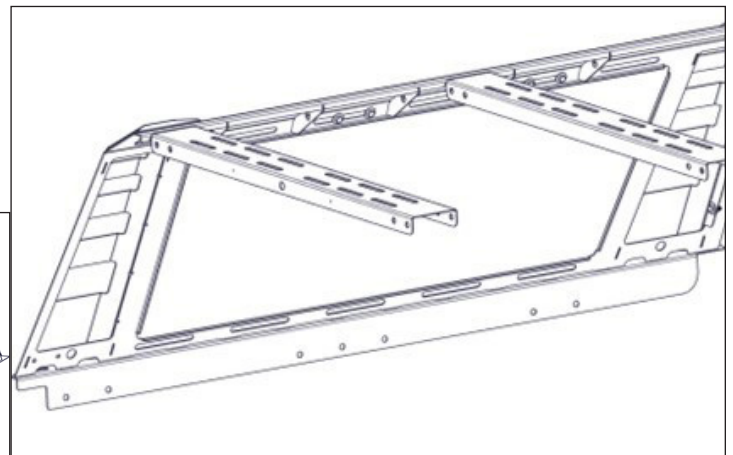
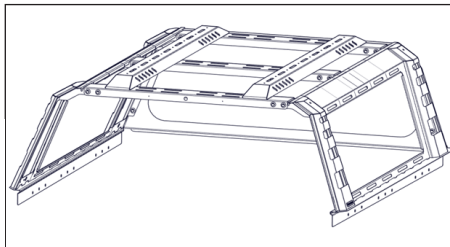
Preparing the Truck

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 cardboard down during installation. It is also recommended that you tape off areas of the truck that could be impacted by the rack during installation.

Installing the Ascend Rack on the Truck Bed

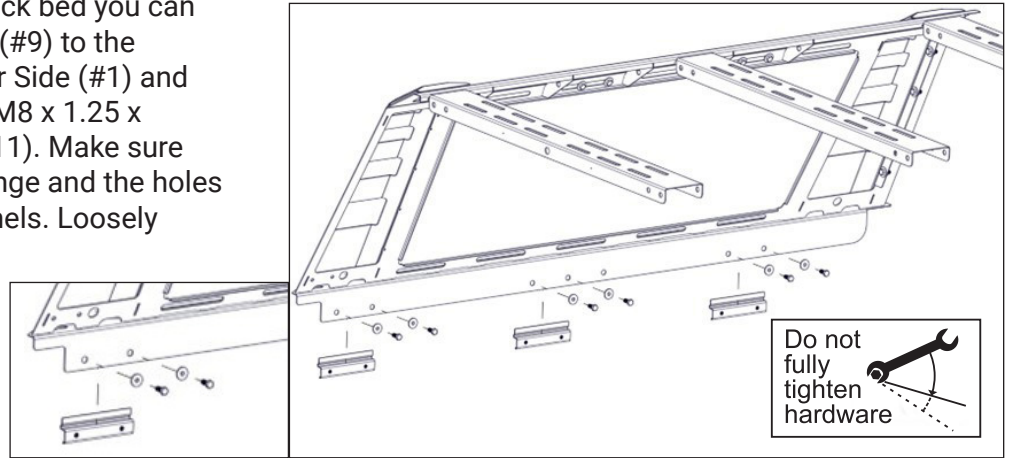
6. Once the main shell is put together, it is recommended that you and another person lift the whole shell onto the truck bed. Make sure the flange at the bottom of the Cab Panel (#3) is over the front of the bulkhead behind the cab and the flange at the bottom of the Side Panel, Driver Side (#1) and Side Panel, Passenger Side (#2) are inside the plastic rail caps on each side.

Do not tighten anything down yet.



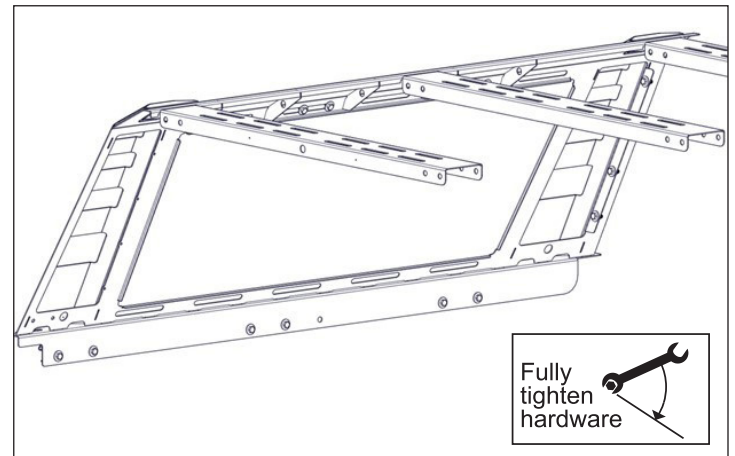
Ascend Rack

7. Once the main shell is on top of the truck bed you can install the 3 Bed Wall Mounting Brackets (#9) to 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). Make sure the mounting brackets are behind the flange and the holes are lined up with the holes in the side panels. Loosely fasten.

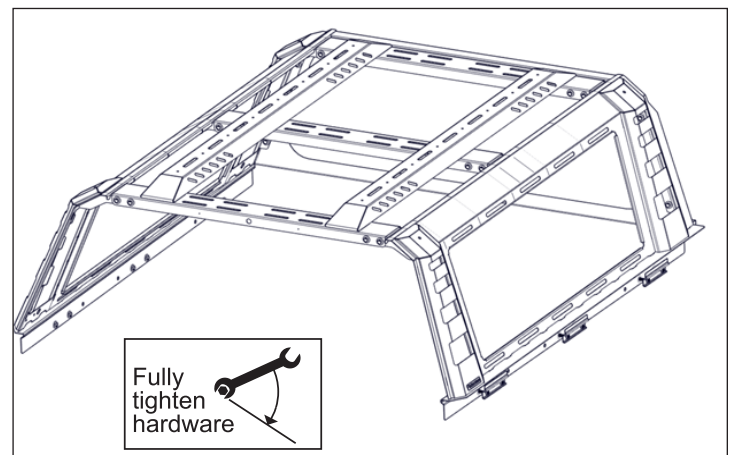


Final Adjustments

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



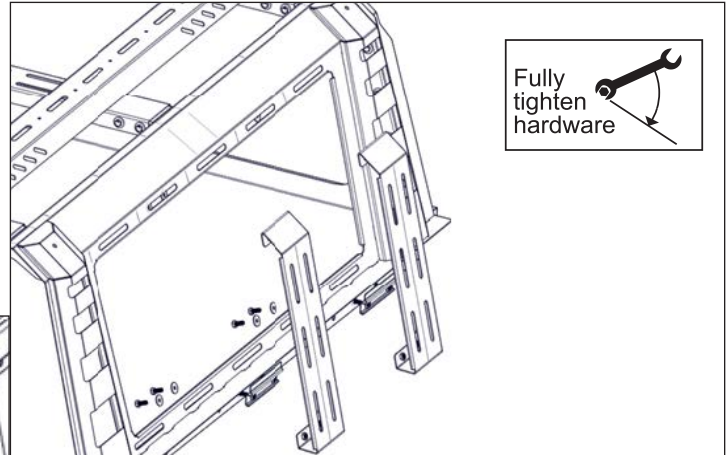
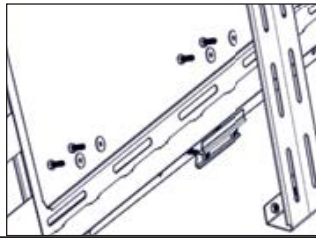
9. Fully tighten all hardware on main rack. Recommended torque is 14 ft lbs.



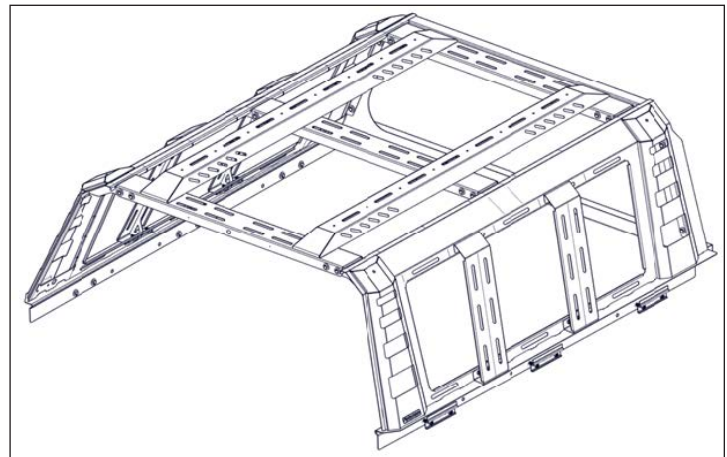
Ascend Rack

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.



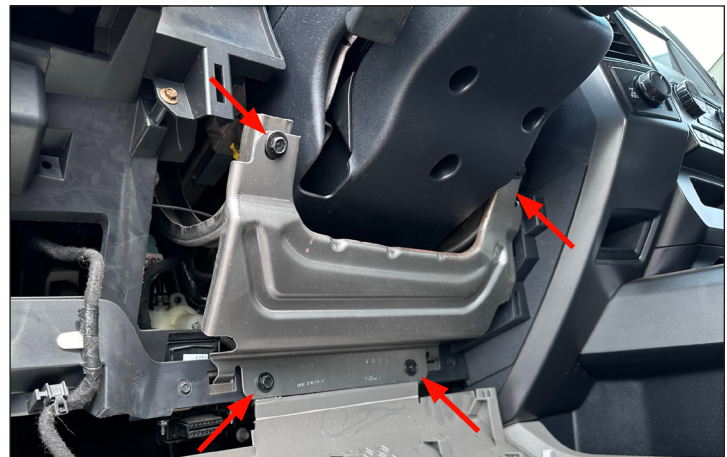
11. Install Complete.



2015-2020 - 3rd Brake Light Wire Harness Installation

12. Carefully pull down on the trim below the steering column. The plastic trim piece will rotate down as the clips disengage in the dash.

Once the plastic trim is removed, locate the 4 10mm bolts on the metal plate. Remove the bolts and the metal plate.



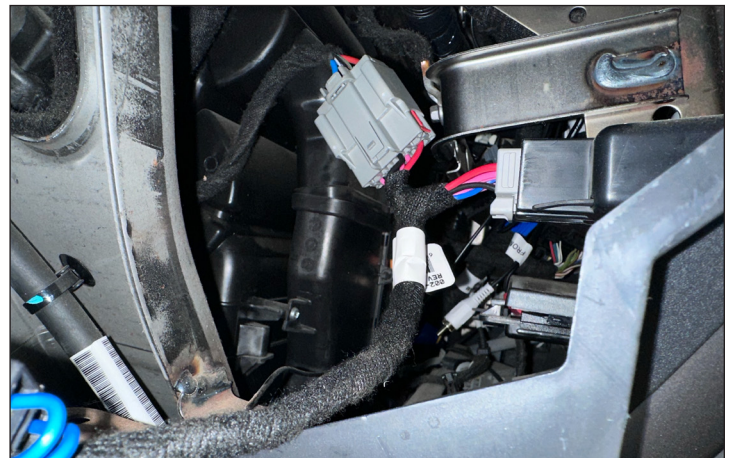
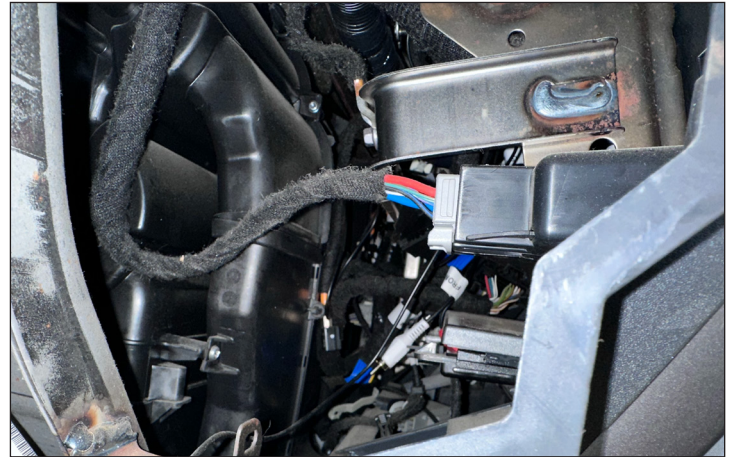
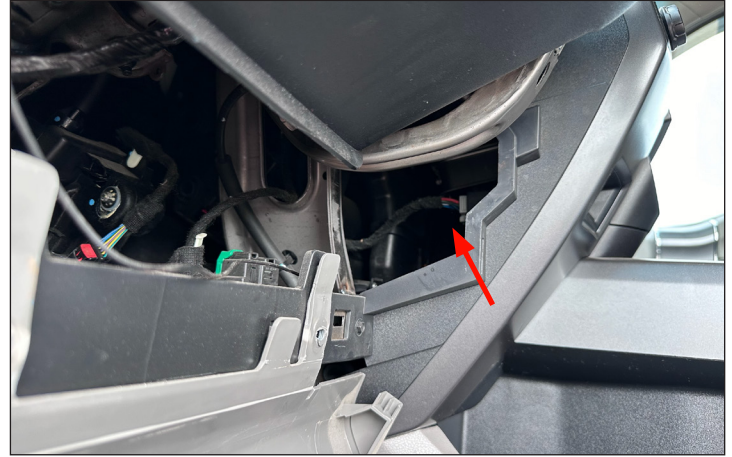
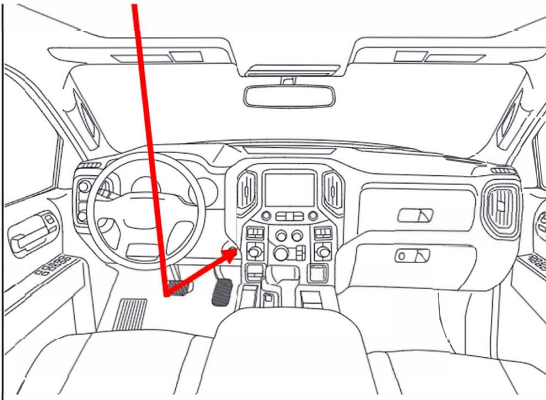
Ascend Rack

13. If the truck is equipped with a trailer brake from the factory, you will need to reach behind the center section of the dash and find the back of the trailer brake controller. Remove the plug from the rear the controller. If it does not have a trailer brake controller, find the plug for the uninstalled trailer brake in the cavity behind the dash.

The plug removed from the trailer brake plugs into the corresponding plug on the provided T-harness.

The other large plug on the T-harness plugs into the trailer brake controller, in the same orientation as the original plug.

Trailer Brake Controller
Behind Dash Here



14. 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 the open plug on the T-harness.

Replace all panels and components following steps 12-13 in reverse.

Ascend Rack

2020+ 3rd Brake Light Wire Harness Installation

15. Begin intall under the driver's side of the dashboard.

Locate the gray connector near the firewall passthrough grommet.

Remove the gray connector and plug into the corresponding plug on the provided T-harness.

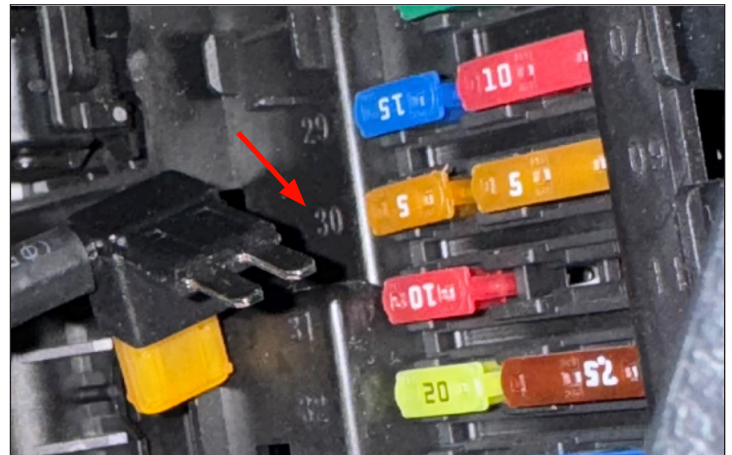
Plug the T-harness back into the vehicle socket under the dash harness.



16. Using an 8mm Socket, remove the side trim panel on the center console. The bolt is located under the dash, to the right of the accelerator pedal.



17. On the passenger kick panel, remove the fuse block cover. Using the fuse plug on the provided extension harness, remove the 5 amp fuse in slot 30. Plug this fuse into the provided fuse plug harness if fuse is not pre-installed.



Ascend Rack

18. Plug the fuse plug harness back into slot 30 in the fuse block.



19. Route the extension harness across the front of the cab floor, through the opened center column, and to the provided T-harness.

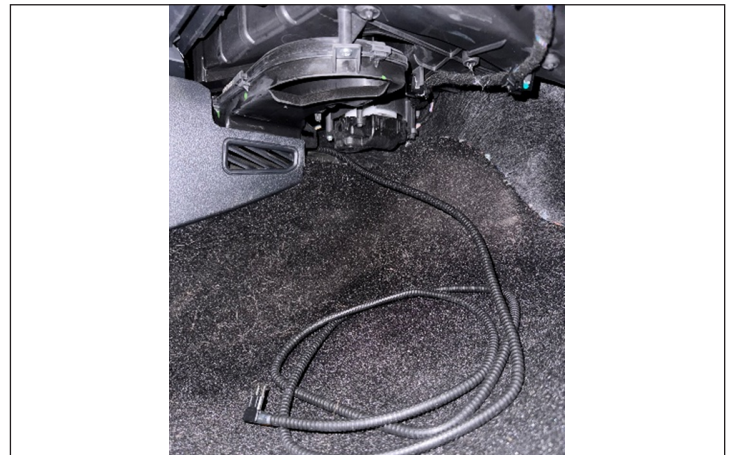
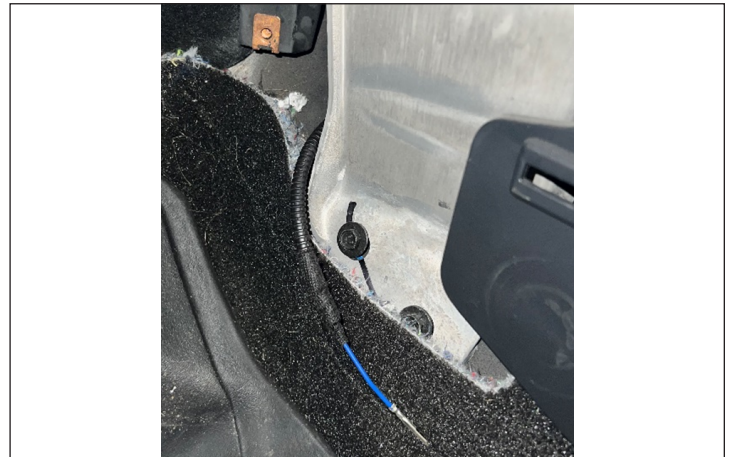
Plug the provided fuse extension harness into the provided T-harness. This requires putting the raw pin on the extension harness into the open slot in the 3-pin connector on the T-harness.

Optional CHMSL Extension Harness Routing

From the bottom of the truck cab, locate the rubber grommet into the cabin. Using a hobby knife, slice a hole into the grommet and feed the CHMSL extension harness into the passenger cabin.

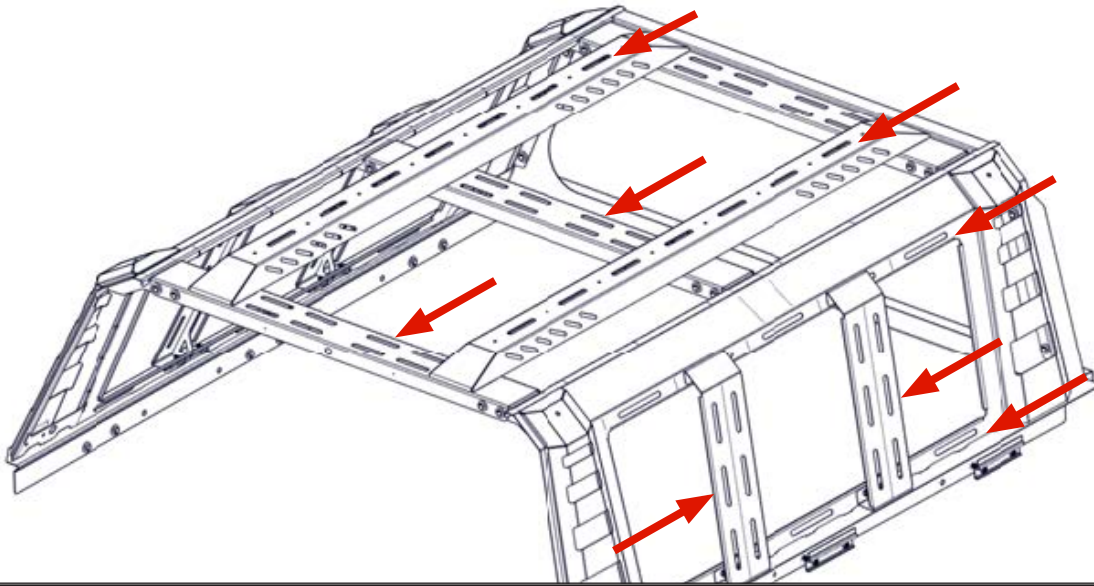
Route the CHMSL extension harness up to the provided T-harness and connect the white 3-pin connectors.

Following steps 17-18 in reverse order, replace all interior panels.



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.