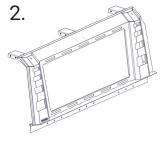


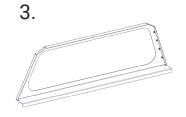
## Ascend Rack Toyota Tundra

Part # RT298506

## **Components and Hardware:**

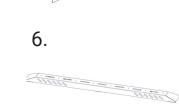




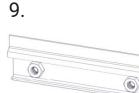


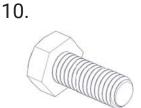




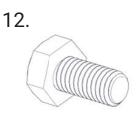












13.

### **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. Bed Wall Mount Bracket(6)
10. M8 X 1.25 X 20mm Bolt
11. M8 Washers
12. M8 X 1.25 X 16mm Bolt(8)
13. Rubber Seal(Roll)
14. RT298516-3 - 3rd Brake Light and Wiring Kit(1)



### **Tools for Installation:**

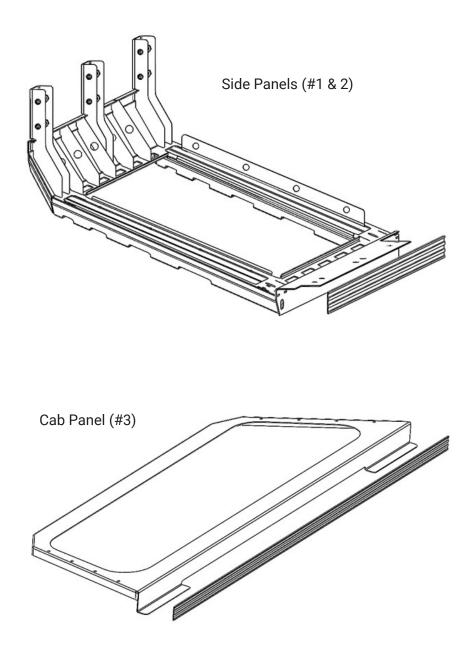
- Wire Snips
- Pliers
- 13mm Wrench
- Scissors or Cutting Tool
- Mild Soap
- Glass Cleaner
- Denatured Alcohol
- Cleaning Rags



### **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.





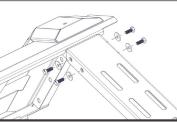
### Ascend Rack

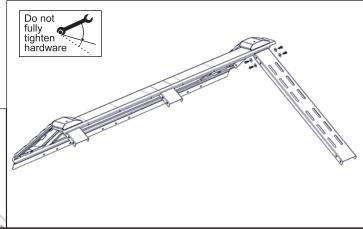


This installation recommends two people for lifting and assembly

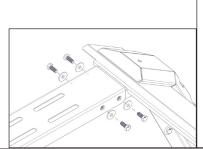
#### **Assembling Ascend Rack**

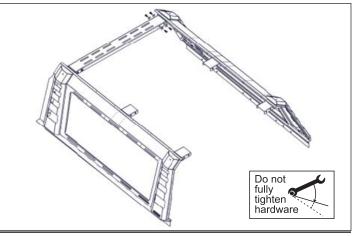
1. Starting in the front/cab, install Crossmember, Cab End (#4) to Side Panel, Driver Side (#1) with 2 M8 x 1.25 x 20mm Bolts (#10) and 2 M8 Washers (#11). Loosely fasten.





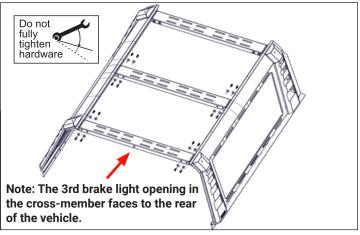
2. Install Side Panel, Passenger Side (#2) to Crossmember, Cab End from Step 1 with 2 M8 x 1.25 x 20mm Bolts (#10) and 2 M8 Washers (#11). Loosely Fasten.





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 Note: You must tighten the hardware loosely the bolts on the front side secured. 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

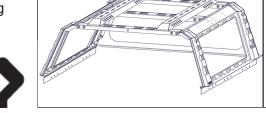
Clean the truck and rear window of the cab and the truck's bed rails to remove all dirt and grime. To help protect the truck's bed finish, lay a piece of carpet or carboard down during installation. It is also recommended that you tape off areas of the truck that could be impacted by the rack during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

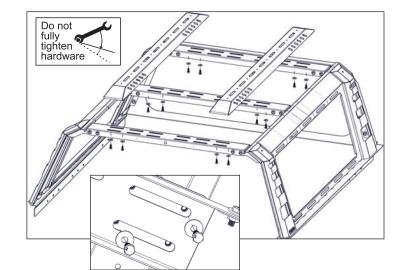
#### Installing the Ascend Rack on the Truck Bed

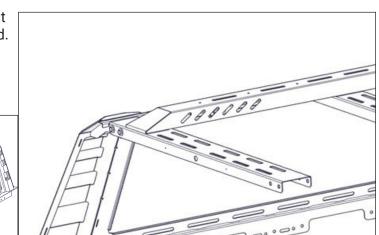
6. Once the main shell is put together, it is recommended that you and another person lift the whole shell onto the truck bed. Make sure the flange at the bottom of the Cab Panel (#3) is over the front of the bulkhead behind the cab and the flange at the bottom of the Side Panel, Driver Side (#1) and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

each side. Do not tighten anything down yet.





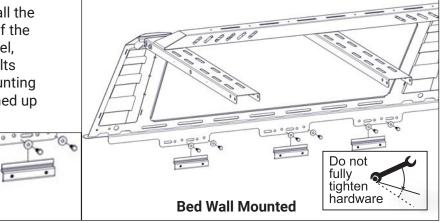




### **Ascend Rack**

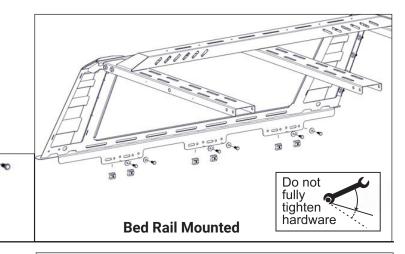
#### 7A. Bed Wall Mounting

Once the main shell is on top of the truck bed, 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.



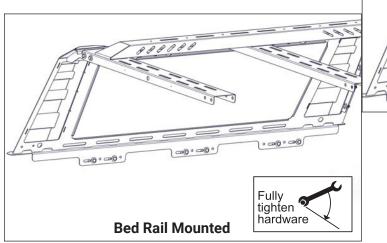
#### 7B. Bed Rail Mounting

Once the main shell is on top of the truck bed, slide the 6 Factory T-nuts into the rail. Space the T-nuts 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.



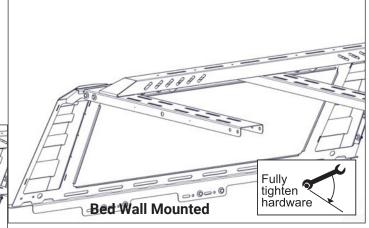
#### **Final Adjustments**

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.



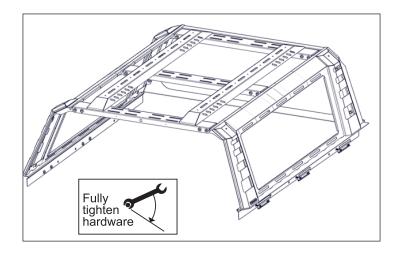
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### **Ascend Rack**

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



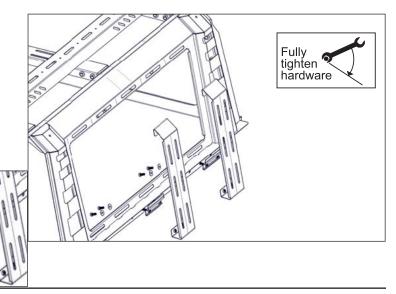
#### Installing Side Accessory Brackets

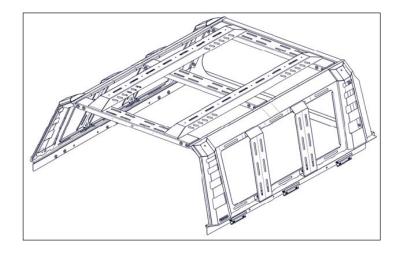
10. Install the 2 Side Accessory Bracket, Driver Side (#7) and 2 Side Accessory Bracket, Passenger Side (#8) to the Side Panels (#1 & 2) using 2 M8 x 1.25 x 16mm Bolts (#12) and 2 M8 Washers (#11) at the top. Use 2 M8 x 1.25 x 20mm Bolts (#10) and 2 M8 Washers (#11) at the bottom of each Side Accessory Bracket, Driver (#7) and

Passenger Sides (#8). Fully tighten hardware.

Recommended torque is 14 ft lbs.

11. Install Complete.





### **Ascend Rack**

#### 22+ 3rd Brake Light Wire Harness Installaion

12. Begin install under driver's side of the dashboard.

Locate phillips head screw on the trim panel above the pedals, near the center console.



13. Remove the screw, then unclip the 3 clips across the top of the panel.



14.Carefully remove the trim panel.

Navigate to the top of the brake pedal and locate the stoplight switch.



### **Ascend Rack**

15. Remove the stoplight from the mount by rotating the switch 1/4 turn counter clockwise.

Remove the plug from the stoplight switch.

Set the stoplight switch to the side for later re-installation.

Plug the stoplight plug into the corresponding plug on the provided T-harness.

Plug the provided T-harness onto the stoplight switch.



16. Re-install the stoplight switch by turning the switch 1/4 turn clockwise into the mount.

Check the plunger to insure it can move 1.2 to 2.5mm.

#### **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.

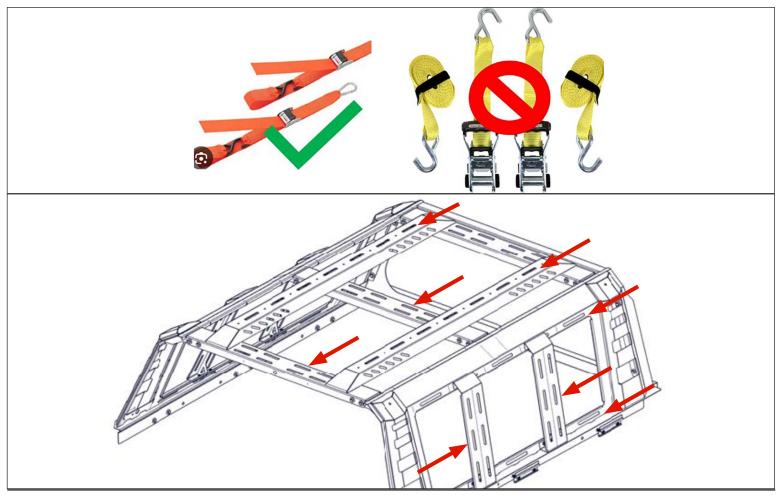
Route the CHMSL extension harness up to the provided T-harness and connect the white 3-pin connectors.

Following Steps 12-14 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.