



## upTOP ALPHA 5G 4Runner

**Effective 2023 we are making some changes to our products that might not be reflected in this guide. Major changes for 2023 include:**

- Removal of **lock washers** from hardware kits in some cases.
- Switching to through-bolt assembly on Alpha roof racks instead of rivet nuts.
- Revised slot array in grooveTEK on Alpha/Bravo roof racks.

Thank you for selecting upTOP™ as the choice for your vehicle. The Alpha roof rack designed for your platform requires competency with basic hand tools and assembly procedures. If you are not comfortable or you feel it is above your pay grade you are encouraged to seek professional installation of this product.

### TOOLS REQUIRED

- 5/32 Allen wrench
- 5mm Allen wrench
- 6mm Allen wrench
- 13mm wrench
- 1/2" wrench (2X)
- 7/16" wrench
- Silicone Sealant
- VibraTITE VC-3 Thread-locker (Included)

***The dynamic (moving) weight capacity of your roof rack far exceeds the specifications set forth by Toyota. Please follow manufacturer recommendations for the safe roof load capacity for the Toyota Tacoma. upTOP recommends keeping evenly distributed cargo loads of 300 pounds on the Toyota 4Runner. Static (parked) weight restrictions are limited to 1150 pounds.***

You will need adequate floor space to assemble your roof rack prior to installing it to your vehicle. An area 96x96" is recommended for this assembly.

You are encouraged to inspect the contents of your package prior to completing assembly and installation. For any missing/damaged parts email pictures and descriptions to [support@uptopoverland.com](mailto:support@uptopoverland.com) with your order number as reference in the subject line. A specialist will assist you with the process for field repair or component replacement.

***It is important to plan for any wiring that needs to be completed during the course of rack installation. Incorporate these tasks into the steps in this guide at points that reduce additional disassembly of the rack while it is installed on the vehicle.***

***These instructions supersede all documentation and/or video tutorials prior to Feb.1, 2021 and contain the latest information regarding component identification, design, and assembly/installation regarding the upTOP Alpha 5th Generation 4Runner.***

***Verified fitment for vehicle years 2009-Present***

## MAJOR COMPONENTS

Part #	Quantity	Description
1067.2	1	Driver Side grooveTEK
1068.2	1	Passenger Side grooveTEK
1165	1	Driver Side Armor
1166	1	Passenger Side Armor
2201-2212	1	Fairing
1309.2	2	Pressure Foot
1311.2	2	Middle Foot
1313.2	2	Rear Feet

*Additional components will be included with the kit not listed here. Handles, hardware, or any accessories shipped with order are not included in the major component list.*

### PREGAME

This rack system will assemble on the ground and install onto the vehicle as an assembly. The final assembled weight of the rack (without lighting) is 76 pounds.

You are encouraged to complete the assembly and installation of the roof rack with an additional person to assist in lifting, positioning and placing the roof rack onto the vehicle.

If your 5th Generation 4Runner is equipped with a factory roof rack you will need to remove that product before proceeding with installation of your new upTOP roof rack. Factory covers, hardware and cross bars will not be reused and should be catalogued and stored for reinstallation at a later date.

Unlike previous versions this kit includes spacers compatible with the nylon sleeves around the factory bolt locations on your vehicle. **DO NOT MODIFY OR TRIM** the nylon sleeves as they are used as a centering guide for spacer/bolt alignment for the supplied hardware.

The STEEL feet included with your kit have been finished in a three stage process to provide protection against oxidation and/or corrosion. The feet included with your rack are considered a low wear interface item and as such require no general maintenance over the course of ownership. If the feet are damaged/scratched beyond the powder coat/primer you should repair them in the same manner that you would repair the painted finish of your vehicle and ensure that bare steel surfaces are sealed from the elements.

Plan for any wiring that will be completed during rack installation and perform those tasks in conjunction with rack assembly and installation.

## STEP I FEET TO RACK

The supplied feet are location specific (Front/Middle/Rear) but are NOT indexed left and right meaning a rear foot can be used on either side of the rack, etc...

### GATHER THE FOLLOWING

- 1011.3 Driver Side grooveTEK
- 1012.3 Passenger Side grooveTEK
- 1309 (Pressure Foot QTY 2)
- 1311 (Middle Foot QTY 2)
- 1313 (Rear Foot QTY 2)
- 1/2" wrench (QTY 2)
- vibraTITE Thread compound
- Hardware Kit "Feet To Rack"



**Figure 1**  
**Foot Identification**  
**Driver Side (1011.3) Shown**

In this illustration the front of the rack is on the RIGHT hand side.

You will notice that the 1311/1313 feet are very similar in design. To discern the difference note the 1313 REAR FEET ARE SLIGHTLY LONGER THAN THE 1311 middle feet.

1313 REAR Foot Shown in **RED**.

1311 MIDDLE Foot Shown in **BLUE**.

1309 FRONT PRESSURE Foot Shown in **ORANGE**.

We will start with the 1309 FRONT PRESSURE FOOT and work backwards.

### THREAD COMPOUND

Apply a small amount of VC3 thread compound to each of the ten(10) fasteners used to attach the feet to the grooveTEK.

Allow this material to air dry for 10-15 minutes. The material will remain gummy but NOT liquid. This compound acts as a shock absorber for your fasteners and allows you to make adjustments to the fasteners without the need to reapply the compound.

The provided tube of VC3 MAY be slightly pressured due to the change in elevation during shipping from our location to yours. You are encouraged to complete this process in a well ventilated area away from children/pets.

**STEP 1 (CONT)**  
**1309 Front Pressure Foot**



**Figure 2**  
**1309 Pressure Foot**  
**Driver Side grooveTEK (1011.3) Shown**

The Pressure Foot arrives to you preassembled with the rubber contact pad installed. When placed on the vehicle the rubber contact pad will align with the front weather stripping to prevent damage to the finish of your vehicle.

After the rack is installed ,with the help from another person, you will push up on the front of the rack while pushing down on the pressure foot and tighten the hardware into place. When properly adjusted the foot will apply upward force on the rack assembly against the weather stripping to support the front of the rack without the need to drill additional holes during installation.

Install a 5/16-18 HEX BOLT/washer through the hole in the grooveTEK as pictured above. Align the slot in the 1309 over the threaded studs and complete the fastener with an additional washer, lock washer and nut.

Snug the fasteners but DO NOT fully tighten as these will need to be readjusted after rack installation.

*Repeat the process for the remaining 1309 on the Passenger Side grooveTEK (1012.3).*

Final Torque Specification is **40 Inch Pounds**.

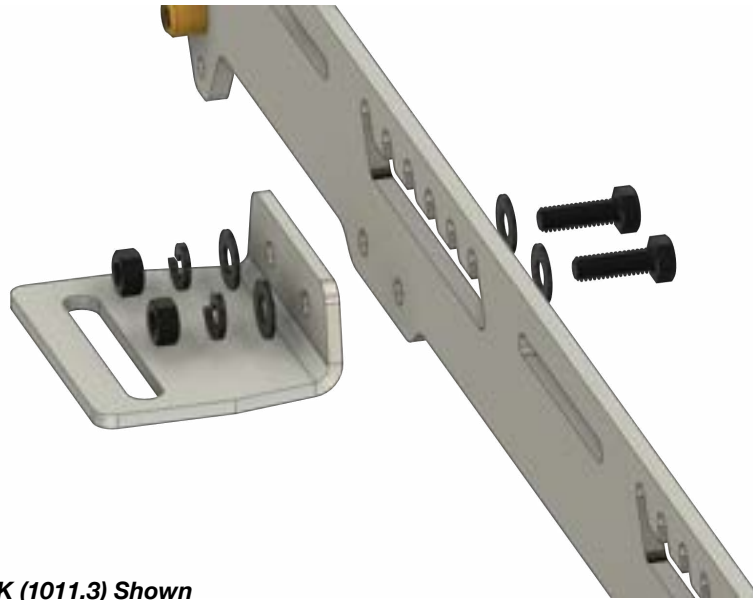
*If you would like a drill kit for the front feet please contact customer support and we can provide one for you.*

**CONTACT PAD ADJUSTMENT (IF NEEDED)**

If minor adjustment is needed to align the rubber contact pad to your weather stripping you will need:  
3mm Allen wrench  
8mm Wrench

Loosen the hardware. Align the rubber contact pads to the weather stripping on your vehicle. Tighten the fasteners back to **15 Inch Pounds**.

**STEP I (CONT)**  
**1311 Middle Feet**



**Figure 3**  
**1311 Middle Foot**  
**Driver Side grooveTEK (1011.3) Shown**

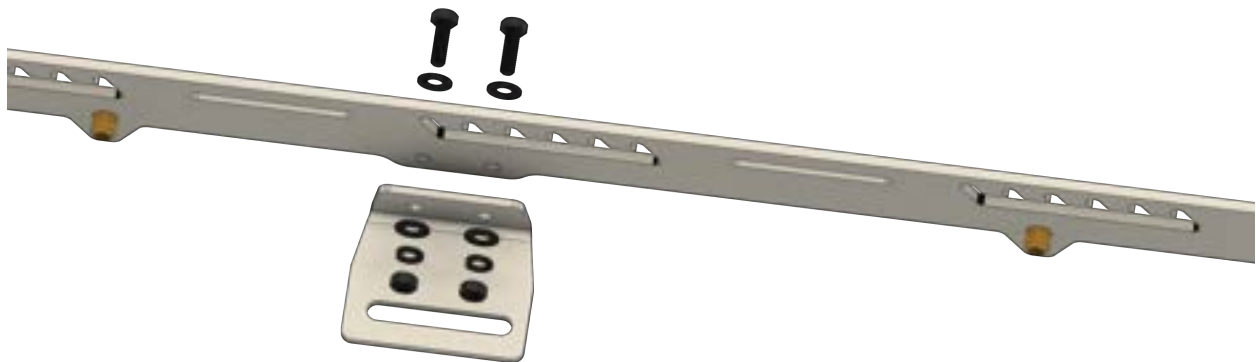
Locate the two (2) holes near the middle of the grooveTEK that align with the holes in the 1311 Middle Feet.

Slide a HEX Bolt/Washer through each of the holes. Align the 1311 Middle Foot onto the studs of the bolts. Finish the assembly with the flat washers, lock washers and nuts.

Using a pair of 1/2" wrenches tighten the fasteners to **40 Inch Pounds**.

Repeat the process on the Passenger Side grooveTEK (1012.3) with the remaining 1311 Middle Foot.

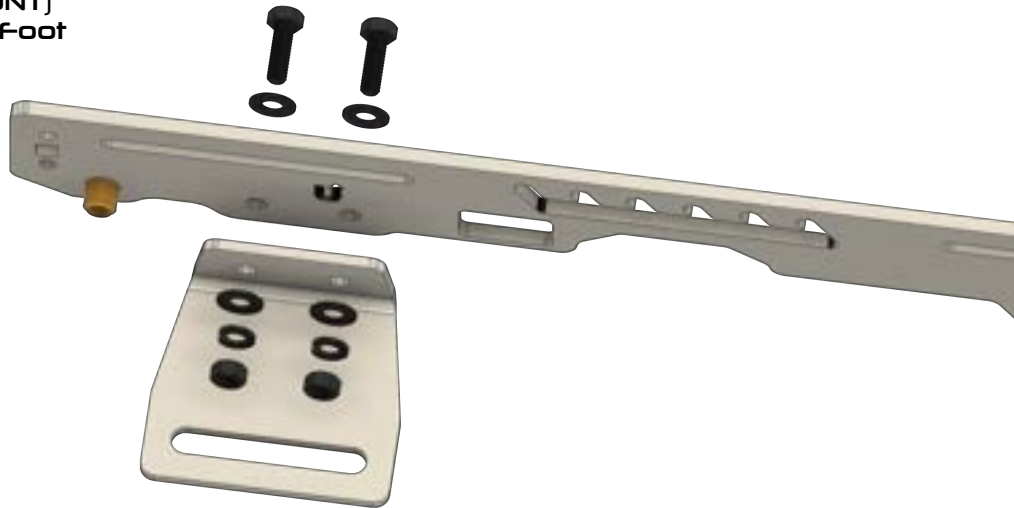
To discern the difference between 1311 and 1313 feet you can sit them on top of one another. The foot with the longer protrusion (slot further away from the bend ) is the 1313 REAR FOOT.



**Figure 4**  
**1311 Middle Foot**  
**Driver Side grooveTEK (1011.3) Shown**

Larger illustration for locating position of 1311 Middle Foot.

**STEP 1 (CONT)**  
**1313 Rear Foot**



**Figure 5**  
**1313 Rear Foot**  
**Driver Side grooveTEK (1011.3) Shown**

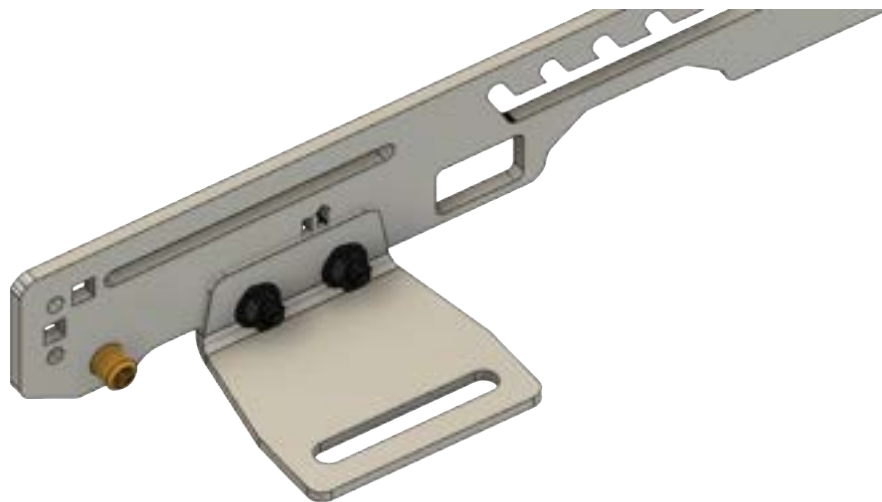
Locate the two (2) holes along the bottom of the grooveTEK at the rear of the piece as shown above.

Slide a HEX Bolt/Washer through each of the holes. Slide the 1313 Rear Foot onto the studs of the bolts.

Complete the assembly with a flat washer, lock washer, and nut.

Using a pair of 1/2" wrenches tighten the bolts to **40 inch pounds**.

Repeat the process with the remaining 1313 Foot on the Passenger Side grooveTEK (1012.3).



**Figure 6**  
**1313 Rear Foot**  
**Driver Side grooveTEK (1011.3) Shown**

**Installed hardware of 1313 Foot.**

## STEP 2 LOAD BARS

The grooveTEK components are machined to allow for several different orientations of the FRONT and REAR Load Bar. Given the extended production cycle of the 5th Generation 4Runner the roof mounted antennas locations have changed over the years with the evolution of technology.

To account for these different positions we've given you some options when mounting the REAR load bar to allow proper clearance for the roof mounted antenna without the need for additional parts or antenna body modification.

**If your 5th Generation 4Runner does not have a roof mounted antenna at the rear of the vehicle you can configure the rear load bar in any of the available slots/holes to suit your needs. If your vehicle DOES have an antenna on the roof at the REAR of the vehicle you will need to configure the REAR load bar according to Figure 8.**

In addition we've updated the FRONT load bar mounting options to allow for more lighting options/positions to help dial in the alignment of your optional light bar set ups for the front of your rack.

### NOTE

Great care was taken in design and testing to make the roof rack system as quiet as possible while driving. Given the multitude of lighting configurations and the adjustability of the FRONT load bar it is important to observe the following tip:

*When installing the roof rack without a light cut option it is important to ensure the FRONT load bar is mounted horizontally and pushed as far forward (as close to the wind screen) as possible. This allows the wind screen to split the oncoming air and diffuse the air before it can get trapped in the front slot on your FRONT load bar.*

*When installing auxiliary gear to the rack i.e. storage boxes, roof top tents, etc...you can adjust the FRONT load bar to any position that you see fit. The added gear will serve to break the oncoming wind and diffuse it in such a way that the front load bar location becomes less prone to oscillation from wind.*

The provided load bars are 50" Long x 2" Wide x 1" Tall and feature extrusion slots for gear attachment points along all four (4) sides. Each load bar is capable of supporting up to 90 pounds of direct contact weight at any point. It is common for the load bars to deflect (bow) slightly under intense weight loads and is not a cause for concern. The extrusion process commits the load bar shape to memory and they will spring back to their original shape when unloaded. This feature helps the load bar shoulder intense weight on the trail and acts as a suspension of sorts for heavy cargo.

upTOP offers proprietary drop-in and slide-in hardware for a variety of mounting options for all of your gear.

The included load bars are compatible with most Thule™, Yakima™ and certain Front Runner™ products. Contact our technical support team by emailing [support@uptooverland.com](mailto:support@uptooverland.com) for compatibility questions, additional mounting hardware, or additional load bars.

The ends of each load bar are tapped (threaded) 1/4-20 at a depth of 1.0" (25.4mm) . These threaded holes will serve as the mounting locations for the load bars.

### GATHER THE FOLLOWING

- Hardware Kit "Front/Rear Load Bars"
- Hardware Kit "Load Bars-All Others"
- 7/16" Wrench
- 5/32 Allen Wrench
- (8) Load Bars

**STEP 2 (CONT)  
LOAD BARS**



**Figure 7**  
**Rear Load Bar Configuration Option 1**  
**Driver Side grooveTEK (1011.3) Shown**

***NO ROOF MOUNTED ANTENNA ONLY***

The FRONT and REAR Load Bars will mount into position with HEX bolts. This fastener will allow adjustment of the load bar after rack is fully assembled/installed as the hardware for the FRONT and REAR load bars are concealed by the armor for your rack.

Configuration 1 uses the slot shown in the illustration above. The rear load bar can be mounted at any point along the provided slot to provide adjustment aiding in alignment for various pieces of gear you will carry on your rack.

Optional quickWIRE harness products or additional wiring can be passed through the load bar (between the hardware) and will be concealed/protected by the armor for your roof rack preventing trail damage and providing a clean installation by keeping the wiring hidden.

***This configuration can be utilized on vehicles without a roof mounted antenna. For vehicles with a roof mounted antenna proceed to Figure 8.***

***Each end of your load bar will receive the following:***

- (2) 1/4-20x.750”(19mm) Hex Bolts***
- (2) Lock Washers***
- (2) Flat Washers***

Install the rear load bar into position using a 7/16” wrench.

***Repeat the process on the passenger side grooveTEK (1012.3).***

Final Torque Specification for this fastener is **21 Inch Pounds**.



**STEP 2 (CONT)  
LOAD BARS**



**Figure 8**  
**Rear Load Bar Configuration Option 2**  
**Driver Side grooveTEK (1011.3) Shown**

**USE THIS CONFIGURATION IF YOU HAVE A ROOF MOUNTED ANTENNA.**

This option places the REAR load bar in a position that will fall behind the shark fin antenna mounted to the roof of your vehicle.

In this configuration the REAR Load Bar will use the rear of the slot for one bolt and the last upper hole at the rear of your grooveTEK.

The small square in between the bolts will serve as a pass through location for optional quickWIRE products or additional wiring to remain protected and hidden after your armor is installed.



**Figure 9**  
**Rear Load Bar**  
**Driver Side grooveTEK (1011.3)**

**The load bar here (shown in BLUE) in the proper orientation to provide antenna clearance.**

## STEP 2 (CONT) LOAD BARS

The FRONT Load bar has several mounting options for more versatile mounting of front lighting (if equipped) and can be installed vertically or horizontally using any combination of the slots/holes at the FRONT of your grooveTEK.

If you are installing heavier lighting options (LP6 Array, Rigid ADAPT, KC, etc...) you can flip the front load bar vertically to increase its load capacity and provide more surface area for mounting complex lighting products.



**Figure 10**  
**Front Load Bar (Standard Slot Configuration)**  
**Driver Side grooveTEK (1011.3) Shown**

In the standard configuration the FRONT load bar will install in the provided slot at the front of your grooveTEK. The load bar can be positioned along the slot anywhere you see fit in order to aid in alignment with pieces of gear added to your roof rack.\*

\*See the **NOTE** section on Page 7 for information on FRONT load bar position in an unloaded roof rack.

Each end of your load bar will receive the following:

- (2) 1/4-20x.750"(19mm) Hex Bolts
- (2) Lock Washers
- (2) Flat Washers

Install the rear load bar into position using a 7/16" wrench.

Repeat the process on the passenger side grooveTEK (1012.3).

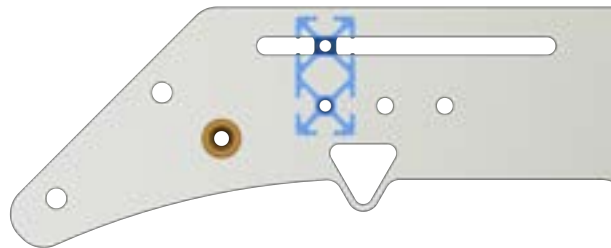
Final Torque Specification for this fastener is **21 Inch Pounds**.

**STEP 2 (CONT)  
LOAD BARS**

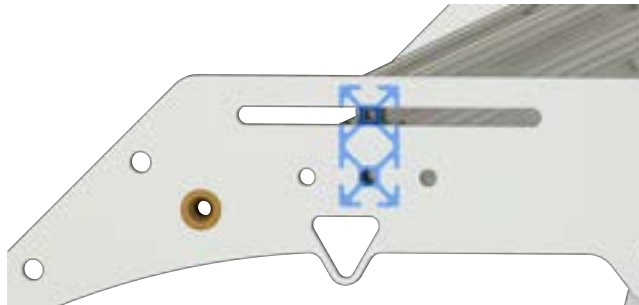
The following illustrations cover the three (3) vertical options for the FRONT load bar. You are provided with the different options to allow for depth adjustment to install your lighting into your rack assembly while keeping it as close a possible to the wind screen allowing it to do its job.

The same hardware (Hex Bolt/ Lock Washer/ Flat Washer) will be used in this configuration and the same torque specifications apply.

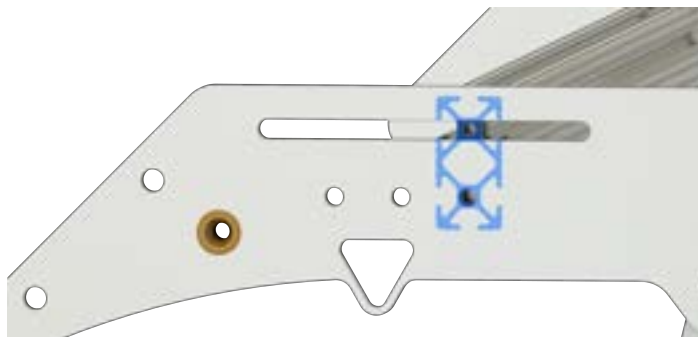
With the armor installed you will not be able to adjust the load bar position when using the vertical alignment option.



**Figure 11**  
**Forward Vertical**



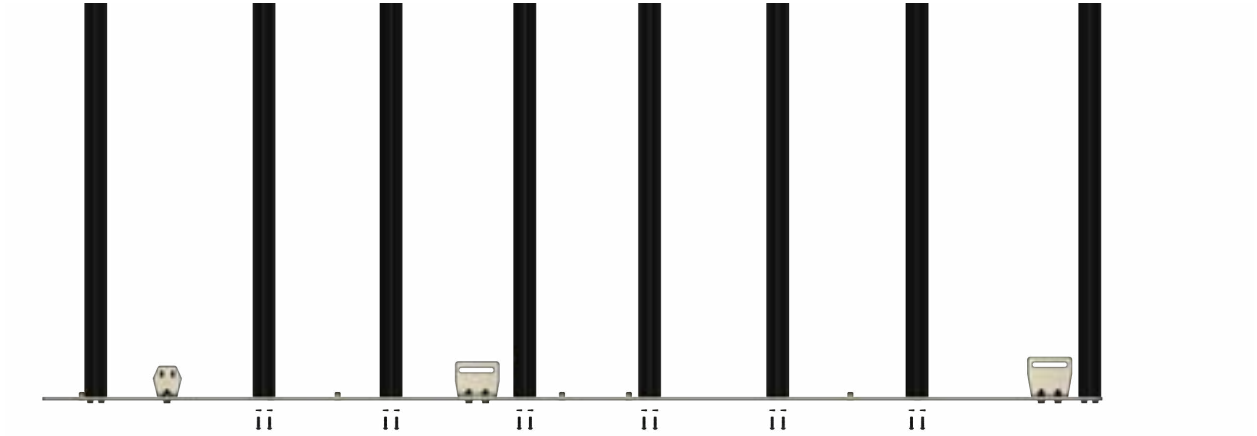
**Figure 12**  
**Middle Vertical**



**Figure 13**  
**Rear Vertical**

**STEP 2 (CONT)**  
**LOAD BARS**

The remaining load bars will install into the slots along the top of your grooveTEK. You can position the load bars at any position within the slots and these can be adjusted at any time.



**Figure 14**  
**Remaining Load Bars**  
**Driver Side grooveTEK (1011.3) Shown**  
**FRONT of rack at LEFT of Illustration**

The remaining six (6) load bars will use the following hardware at each end:  
(2) 1/4-20x1 (25.4mm) Button Head Bolts  
(2) Lock Washers



**Figure 14**  
**Remaining Load Bars**  
**Driver Side grooveTEK (1011.3) Shown**  
**Slot Alignment**

Install the load bars into the slots using a 5/32" Allen wrench.  
Repeat the process on the passenger side grooveTEK (1012.3).  
Final Torque Specification is **21 Inch Pounds**.

## STEP 2 (CONT) LOAD BARS



**Figure 15**  
**Remaining Load Bars**

Install the remaining load bars with the Button Head Hardware/Lock Washers.

Align the load bars in the slots and tighten with 5/32" Allen wrench. The load bars can be repositioned at any time within the slots once the rack is on the vehicle.

At this point you have the frame structure of the rack completed.

### **NOTE**

*If you are installing optional lighting (Front Bar, Rear Lighting, scenePODs, etc..) you should pause the assembly now and complete the wiring of the rack assembly before proceeding.*

*Completing wiring at this stage will be easier without the armor installed for routing cables.*

*Optional rack specific quickWIRE harnesses are available for purchase from our website. The quickWIRE harness features color coded wiring of appropriate gauge, waterproof connectors, specialized attachment points compatible with upTOP Alpha Roof Racks, and allow a quick, professional wiring job to be completed inside the rack assembly in a manner that both protects the wiring from damage on the trail as well as lending to a stealth appearance by keeping all wiring concealed inside the rack assembly.*

*If you have sourced your own wiring please ensure that it is oxygen free pure copper wire and of the appropriate gauge for the circuits in which they will be integrated.*

*Always use appropriate wire gauge, fuses to protect the circuit and wire sheathing to prevent chaffing of the wire insulation during heavy trail use.*

*Never route cable in high impact areas. Never place cables or harnesses in high heat environments without the proper sheathing and insulation using wiring that is rated for high temperature windows. Always use cable glands or grommets when passing wire/cables through metal bulk heads. Failure to adhere to these standards can result in electrical shorts causing product failure and/or fire hazards.*

## STEP 3 FAIRING/WIND SCREEN

### **WARNING**

*Fairings cut for specific light bars as well as universal 40 cuts will experience significant wind noise when installed into the rack assembly and driven at speed with the light bar absent from the assembly. Wind passes through the open holes and/or slot and is intercepted by the front slot on the load bars.*

*The fairings are designed with this in mind and the angles/openings are engineered to work in unison with the light bars to limit or eliminate noise/vibration.*

The fairing for your roof rack utilizes a splitter design that cuts through the air at speed and splits the wind. This patent pending design is the result of hundreds of hours of design, engineering and testing. The end result is a design that cuts through the air forcing air under the rack taking advantage of the aerodynamic signature of your vehicle as well as pushing air up and over the rack giving the roof rack a smaller aerodynamic profile that results in the least amount of wind noise possible with an aftermarket roof rack. The large upper face serves to cut air up and over any gear that you might have attached to it.

*If your fairing is cut for lighting you are encouraged to install the light bar(s) prior to installing the roof rack on the vehicle. This will add some weight during the process of lifting the roof rack onto the vehicle but it is far easier to install the light bars into the fairing whilst it is off the vehicle and at a good working height. **The rear of this guide contains information on mating a light bar to your fairing.***

*For more comprehensive information on fairing lighting options/mounting download the upTOP™ Lighting Guide from our website under the instructions tab.*

*Apply VC3 Thread locking compound to the threads of all eight (8) feet to rack bolts and allow to dry. 15-20 minutes. Compound will remain gummy.*

**STEP 3 (CONT)  
FAIRING/WIND SCREEN**



**Figure 16**  
**Fairing Installation**  
**Driver Side grooveTEK (1011.3) Shown**

*The fairing of your roof rack is designed to mate with the grooveTEK of your rack allowing your outer armor to be removed easily at any time for service, maintenance or upgrade without the need to remove the fairing/optional lighting. This design makes the rack serviceable without the aide of another person at any time with a 5mm Allen wrench.*

**GATHER THE FOLLOWING**

- Fairing/Wind Screen specified on your order
- Hardware Kit “Fairing”
- 5mm Allen wrench
- 13mm wrench
- VC3 Thread Locking Compound

Align the holes in the flange of the fairing to the holes located at the **FRONT** of your grooveTEK.

Slide the provided M8x1.25 25mm Button Head fasteners through the grooveTEK **AND** the holes in the **FAIRING**.

Repeat the process on the passenger side grooveTEK (1012.3).

Proceed to the next page for the completion of this step.

**STEP 3 (CONT)**  
**FAIRING/WIND SCREEN**



**Figure 17**  
**Fairing Hardware-OUTER**  
**Driver Side grooveTEK (1011.3) Shown**

With the M8x1.25 25mm Button Head Bolts inserted you will reach inside the rack assembly and install the provided flange nuts onto the studs of each bolt.



**Figure 18**  
**Fairing Hardware-INNER**  
**Driver Side grooveTEK (1011.3) Shown**

On the inside of the fairing (shown here with NO LIGHTING) you will access the studs of the bolts and install the M8x1.25 Flange Nuts onto the studs.



**STEP 3 (CONT)  
FAIRING/WIND SCREEN**



**Figure 19**  
**Fairing Hardware Completion-INNER SHOWN**  
**Driver Side grooveTEK (1011.3) Shown**

Using a 5mm Allen wrench and a 13mm open end wrench tighten the fasteners.

*Repeat the process on the passenger side (1012.3).*

*Final torque specifications for these fasteners is **40 Inch Pounds**.*

If you are installing lighting into the fairing now is a good time to complete that task.

If you are using the FRONT load bar in a vertical mounting position it will be easy now to relocate the load bar with the lighting installed to ensure that the lighting is nested as close as possible to the fairing.

If at a later time you wish to adjust the load bar (vertical position only) it is required that you remove the armor to gain access to the HEX bolts securing the FRONT load bar for adjustment.

There is no adjustment built into the fairing of your roof rack in order to maintain the proper angles for best wind noise rejection. **DO NOT** attempt to alter the position or angle of the fairing in any way and do not install in a manner inconsistent with the intended design.

## STEP 4 GRAB HANDLE TYING

### TOOLS REQUIRED

- Needle Nose Pliers
- Lighter
- Crimp Tool
- Side Cutting Pliers

As the grab handles are installed to the rack as a completed assembly the next step is to tie and complete the safety wire installation for the grab handles of your rack. The installation of the armor to your roof rack requires the grab handle lace plate as part of the final attachment.

The grab handles and their required components are packaged by themselves. Locate the bag and proceed with tying the handles.

**Our process for handle tying is outlined in a video on our website under the instructions tab and linked below.**

Feel free to follow our method or get creative with your paracord knots and go your own route. The kits are shipped with standard black 550 paracord but you can order any color that you like from paracord planet or other online sources.

The included safety wire and crimp replacements are available on our website or by calling our technical support Monday-Friday from 8am-4pm MST.

Once you've tied all included handles you can proceed to step 5: Armor attachment.

If you are viewing this guide on a mobile device or laptop computer you can access the video directly by clicking the link below:



## **STEP 5 ARMOR**

The armor provided with your roof rack is contoured to match the profile of the exterior of your vehicle lending to the low profile appearance while providing channels for wiring, attachment points for your grab handles, hiding the mounting feet of your roof rack and allowing for optional scenePODs™ to be flush mounted for a discrete lighting option for trail sides or camp sites.

If your armor has been ordered color matched to your vehicle you should maintain and care for it in the same manner that you maintain and care for the exterior of your vehicle. **DO NOT** use harsh detergents, thinners, or abrasive pads to clean the surface.

The powder coated finishes we offer have been engineered to be as close to factory paint match as possible. Understand that the powder coating process is cured by heat and is actually a plastic polymer, **NOT PAINT**.

As such the color, pearl/flake consistency, or sheen may differ slightly from your vehicles exterior. We've tried very hard to ensure a satisfactory match of color and sheen but older vehicles which have been subjected to years of UV degradation can be difficult if not impossible to match. We appreciate your understanding for color match variance on vehicles older than 5 years.

Color matched products are non-repairable with automotive touch up paints. The chemical compound will result in a distinct mismatch of color between your powder coated parts and any automotive grade touch up paint. If severe damage occurs to colored powder coated components replacement parts can be ordered by contacting our customer support.

Stealth Black powder finishes are textured and should be cleaned with soap/water. Scratches/Scuffs that occur during use can be touched up with SEM TRIM BLACK Spray Dye available at most auto parts outlets or ordered online.

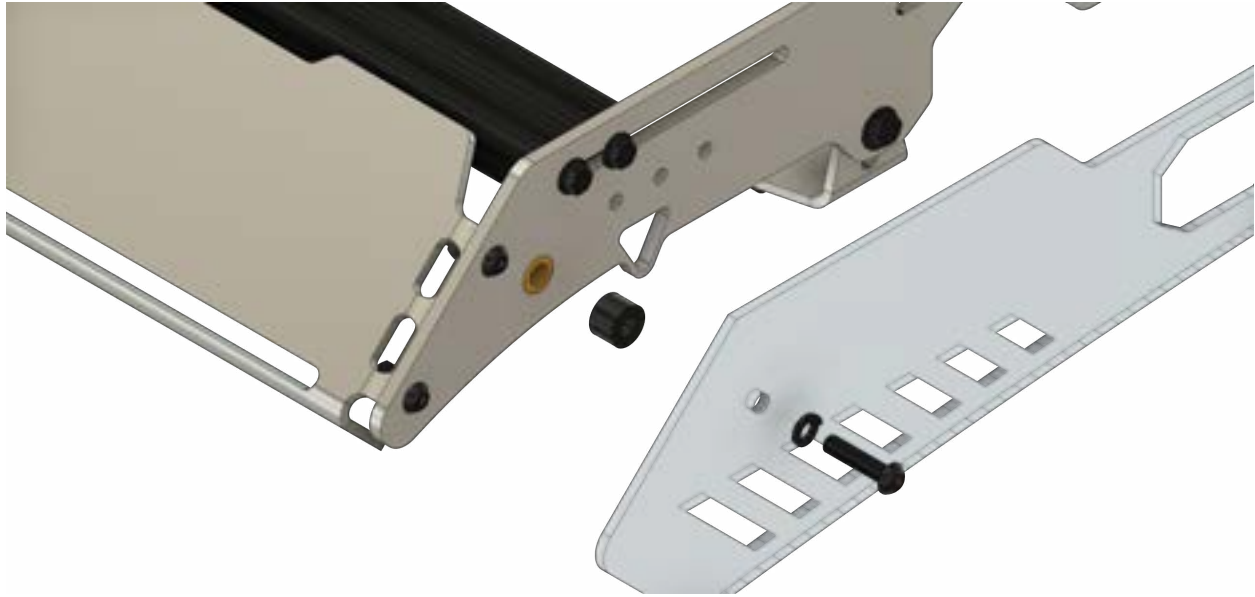
### **NOTE**

*If you are installing our optional scenPOD lighting into your rack assembly you will want to trim the knockouts **PRIOR TO INSTALLING THE ARMOR TO YOUR RACK ASSEMBLY**. Instructions for scenePOD installation can be downloaded from our website under the instructions tab.*

### **GATHER THE FOLLOWING**

- *Driver Side Armor 1111*
- *Passenger Side Armor 1112*
- *Hardware Kit "Armor to grooveTEK"*
- *Hardware Kit "Grab Handles"*
- *5mm Allen wrench*

**STEP 5**  
**Armor**



**Figure 20**  
**Armor Attachment-FRONT**  
**Driver Side (1111) Shown**

The armor will attach to the grooveTEK into the installed M8x1.25 rivNUTS. These are pre-installed prior to shipment with a pneumatic tool that properly crimps the fastener into place and backs out of the rivNUT in reverse verifying the thread integrity of the rivNUT.

If at any time you encounter resistance installing fasteners into the rivNUTS STOP and inspect the threads. If need be repair the threads with an M8x1.25 Tap. DO NOT FORCE a fastener into a rivNUT as you can damage the threads or cause the rivNUT to “spin” in place making the stuck fastener very hard to remove without damaging the grooveTEK of your rack assembly.

At each connection point you will place a plastic spacer between the armor and the grooveTEK. This plastic spacer provides the channel for wiring and is responsible for the proper offset ensuring that your armor fits the profile of your vehicle properly without coming into contact with the painted surface.

Start at the FRONT of the grooveTEK and align the forward most hole in your armor to the FRONT rivNUT.

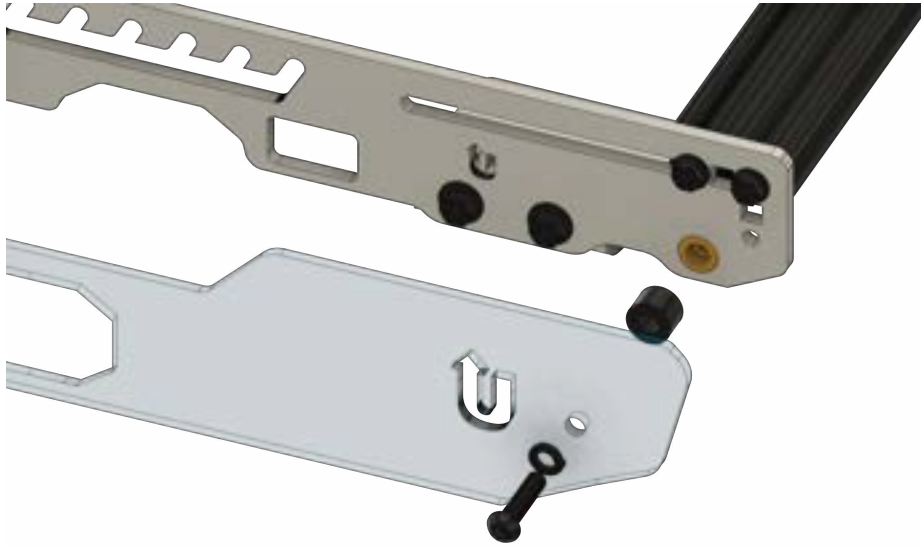
Assemble an M8x1.25x35mm Button Head Bolt/ Lock Washer and pass it through the armor.

Place a spacer between the armor and grooveTEK and guide the bolt through the spacer and start the bolt into the rivNUT with a 5mm Allen wrench.

**NEVER USE POWER TOOLS FOR THIS PROCESS.**

*Repeat the process on the passenger side (1112) at the FRONT of the rack.*

**STEP 6 (CONT)**  
**ARMOR**



**Figure 21**  
**Armor Attachment-REAR**  
**Driver Side (1111) Shown**

Using the same assembly order install the REAR armor attachment point hardware.

Repeat the process on the passenger side armor (1112).

Final torque specification for the FRONT and REAR fasteners is **35 Inch Pounds**.

**STEP 6 (CONT)  
ARMOR**



**Figure 22**  
**Armor Attachment-GRAB HANDLES**  
**Driver Side (1111) Shown**

Using the M8x1.25x55mm Button Head Bolts/Lock Washers align the grab handles in the remaining holes in the armor.

Slide a plastic spacer between the grab handle and the armor at each bolt location.

Insert the exposed threads through the armor.

Install a SECOND spacer over the threads to rest between the armor and the grooveTEK.

Using a 5mm Allen wrench tighten the fasteners into place.

Repeat the process until all six(6) grab handles are installed (three (3) per side).

Final torque specification for the grab handle fasteners is **35 Inch Pounds**.

## STEP 7 VEHICLE PREPERATION

If your vehicle is equipped with a factory roof rack you will need to remove that prior to proceeding with installation of your upTOP roof rack.

The factory roof rack is secured to the truck with eight (8) 12mm bolts that are concealed under plastic trim caps at the front and rear of the factory rack.

Using a pry tool GENTLY work the plastic covers out of the way to gain access to the bolt locations.

WITH HAND TOOLS carefully remove the eight (8) factory bolts and sit them aside. They will not be reused.

Clean the areas around the factory bolt locations to remove debris and provide a clean surface for your sealant.

### GATHER THE FOLLOWING

- Silicone Sealant
- Hardware Kit "Spacers"

You will find that each bolt location has a nylon sleeve in place around the threaded hole. DO NOT REMOVE those nylon sleeves. The spacers provided in your kit are gauged to slide over them and they are used to center the spacers over the factory holes and ensure proper alignment.

With the areas clean and dry apply sealant into the threaded holes and work your way out forming a puddle approximately .750" (19mm) in diameter around the nylon sleeve to create a sealant base for the space3r to sit in. This ensures a proper seal.

### NOTE

*An exterior grade pure silicone sealant is required (NOT INCLUDED) for this step. DAP, 3M, PermaTEX, etc.. are brand names. Ensure that the product you've purchased is a PURE SILICONE SELANT rated for EXTERIOR USE. This product is available at most hardware stores as well as online and can be purchased in press tube (tool/gun required) as well as squeeze tube (no tools required). You will require approximately 3.5-4 ounces of sealant to complete this process.*

With the sealant applied install one (1) spacer into location by sliding them onto the nylon sleeves and centering over the factory threaded holes.

### NOTE

There are multiple videos online about removing the factory roof rack from your 4Runner. We recommend searching BY MODEL YEAR and proceeding with the video that best covers your specific year. Year model changes , copyright rules, and links that expire or get removed make it difficult for us to provide video links Specific to this task however the information is easy to find with a simple Google search.

Remove any obstructions from around the vehicle to ensure a safe work area free of trip hazards. Children, bicycles, pets, skateboards, etc...should be removed form the immediate area while lifting the roof rack onto the vehicle.

Fold the side view mirrors for more clearance around the vehicle.

## STEP 8 RACK TO ROOF

### GATHER THE FOLLOWING

- Hardware Kit "Rack to Roof"
- 6mm Allen wrench
- A friend that will help you lift this exceptionally large piece of roof rack art onto the roof of your beloved 4Runner

### NOTE

We recommend that you take the roof rack onto the vehicle from the **FRONT** as it is easier to clear the hood first and then gently sit the rack into position over the spacers installed in **STEP 7**.

This is a **TWO PERSON** task. **DO NOT ATTEMPT** to lift this roof rack onto your vehicle alone. Damage to the vehicle, injury to yourself or both will likely occur.

- Lift the roof rack into the air with a person on both the **DRIVER AND PASSENGER SIDE** of the rack.
- Slowly raise the rack up over your head and walk it onto the vehicle.
- **GENTLY** sit the rack down into position aligning the feet with the spacers.
- Have your lift buddy hold the rack in position while you gather the hardware/Allen wrench.



**Figure 23**

*Driver Side Rear Foot (1313) Shown*

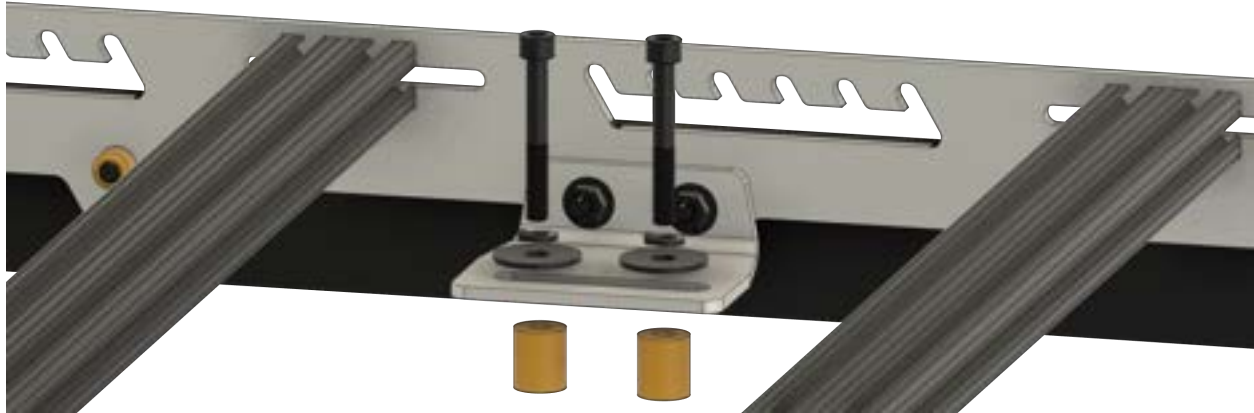
Each bolt location will receive the following:

- (1) M8x1.25x55mm Cap Bolt
- (1) Lock Washer
- (1) Fender Washer

**BY HAND** with the Allen wrench start each fastener for both (Driver/Passenger) rear feet. **DO NOT FULLY TIGHTEN ANY FASTENER AT THIS TIME.**



**STEP 8 (CONT)  
RACK TO ROOF**



**Figure 24**  
**Driver Side Middle Foot (1311) Shown**

Each bolt location will receive the following:

- (1) M8x1.25x55mm Cap Bolt
- (1) Lock Washer
- (1) Fender Washer

**BY HAND** with the Allen wrench start each fastener for both (Driver/Passenger) middle feet.

Once all eight (8) bolts are started tighten them into place with the 6mm Allen wrench.

If at anytime you encounter resistance in the threads **STOP** and inspect the threads. If necessary repair the threads with an M8x1.25 tap.

Final torque specification for these fasteners is **65 inch pounds**.



**Figure 25**  
**Completed Rack Assembly**

**STEP 9**  
**PRESSURE FOOT ADJUSTMENT**

With the rack assembly tightened to the vehicle you can now set the pressure foot (1309) tension and tighten the bolts for them.

Have your lift buddy push up on the front of the rack (towards the sky).

Push the pressure foot (1309) down until it is in contact with the rubber weather seal on your vehicle.

Using two (2) 1/2" wrenches tighten the hardware for the front pressure foot.

Repeat the process on both sides of the vehicle at the **FRONT** of the rack.

If you encounter wind noise or vibration at highway speeds at any time check the tension on the pressure feet and adjust as needed.

## upTOP finePRINT

- It is recommended to inspect the rack hardware at regular intervals to ensure fasteners are tight. If the rack ever needs to be removed and reinstalled you will need to repeat the silicone sealant steps before reinstallation of the rack to roof hardware.
- The powder coated finish on your rack uses a chemical compound to maintain UV stability for years to come. Wash the roof rack at regular intervals to keep the load bar channels, drip rails and mounting components free of dirt and debris. Foreign objects (mud) can dry and cause noise and vibration.
- If your color matched components are painted care for them in the same manner as you care for the exterior finish of your vehicle.
- Repair or replace worn parts with expediency. All hardware is available for purchase by calling our technical support line at 720.730.6381 Monday-Friday 8am to 4pm MDT or by email 24/7 364 (we don't answer email on Christmas-get over it) support@uptopverland.com
- It is the responsibility of the end user to ensure all electrical connections are secured and fused properly for the circuit load they are carrying.
- upTOP Roof Rack dynamic (moving) weight capacity can often exceed the OEM vehicle manufacturers specification. In all cases the OEM specifications supersede the upTOP dynamic rated load capacity.
- DO NOT use the upTOP product in a manner inconsistent with its design intention. This will void your warranty.
- DO NOT modify or alter structural components of upTOP roof rack assemblies. This will void your warranty.
- Excessive speeds over rough terrain can exceed dynamic weight loads causing structural fatigue or failure of aluminum and steel components. Use your best judgement and common sense before committing to full send with an overloaded rack product.
- Component damage or failure due to negligence will result in voided warranty claims. Any failed component must be returned to upTOP with a properly submitted RMA request. Any product received without authorized RMA request will be returned to sender at their expense.
- Leave. No. Trace. Our planet is fragile. Some parts of it have been undisturbed for generations. Stay on trails and designated routes. DO NOT LITTER. Pack it in Pack it out. Basically be a decent human and protect our culture, wild lands and ecosystems.