upTOP
eX
Alpha / Bravo

Thank you for selecting upTOP™ as the choice for your roof top storage solution. Our modular design allows for fitment across a vast range of vehicle platforms and is also capable of fitting toppers as well as mating directly to our TRUSS bed rack systems providing more storage space than any other solution on the market.

This guide covers all of the current applications for all make/model variants of the eX rack platform. The illustrations in this guide will provide step by step directions for assembling any Alpha or Bravo roof rack from upTOP overland.

Assembly and installation of this rack system requires competency in basic hand tools, measuring, and following an epic set of instructions. If you do not feel comfortable with this process or feel it is above your pay grade you are strongly encouraged to source professional installation of this product.

TOOLS REQUIRED

- **5/32 Allen wrench**
- **5mm Allen wrench**
- **4mm Allen wrench**
- **7/16” wrench**
- **Tape Measure/Ruler**
- **VibraTITE VC-3 Thread locker (Included)**

The dynamic/static load of your roof rack will depend on the structure that it is mounted to. Never exceed manufacturer recommendation for weight capacity on any structure that this product will be installed upon. upTOP certified weight restrictions are available in this guide by rack make/model.

You will need adequate floor space to assemble your roof rack prior to installing it to your vehicle. An area 80x80” is recommended for this assembly.

WEIGHT RESTRICTIONS

CHART 1
Dynamic Weight Load Restrictions

Product	Dynamic Load	Static Load
Bravo eXSB	250 Pounds	700 Pounds
Bravo eX6	250 Pounds	700 Pounds
Alpha eXSB	300 Pounds	750 Pounds
Alpha eX6	300 Pounds	750 Pounds
Alpha eX65	350 Pounds	400 Pounds
Alpha eX8	350 Pounds	400 Pounds
Alpha eXJT5	300 Pounds	350 Pounds

- ***Dynamic loads are specific to vehicle in motion and classify the maximum load capacity underway.***
- ***Static loads are specified to vehicle in parked location and classify the maximum load capacity of a stationary vehicle.***
- ***Weight load restrictions assume evenly distributed cargo across entire surface of rack.***
- ***Load bar deflection maximum allowable variance +/- .270" @ center on 50.00" Span.***

INSTALLATION REQUIREMENTS

Topper compatibility requires installation of third party cargo attachment tracks (not included) with this kit. The length of the cargo track needs to be 80% of the length of available surface length of your topper to ensure adequate spacing of the included mating system to evenly distribute cargo loads across the surface of your topper.

Third party options for these tracks include but are not limited to:
- **Thule TOP TRACKS**
- **Yakima Track w/ CAPNUTS**

The M6x1.00 threaded inserts that are provided with your kit have verified compatibility with the two brands mentioned above. Other brands may or may not accept the provided inserts and you are encouraged to source M6x1.00 threaded inserts that are compatible with any brand other than those mentioned above. These are custom produced fasteners proprietary to upTOP overland and at this time we DO NOT stock or offer additional sizes.

Under no circumstances are you encouraged to forego the cargo track attachments and mount any upTOP product directly to a fiberglass topper. The fiberglass toppers are inadequate for transferring stress from the contact points of the mating system without the third party cargo tracks and can cause damage and or failure of the roof of your topper. It is the sole responsibility of the end user to verify that the topper for the vehicle can support the weight capacities listed in the chart on this page prior to installation of any eX rack system.

Questions about topper compatibility with cargo track systems should be directed to the manufacturer of the topper you have for your vehicle. upTOP overland does not maintain a working knowledge of topper manufacturer specifications outside of toppers that are used for beta design, prototyping and field testing.

ASSEMBLY NOTES

The eX line of products are designed around a common assembly procedure that utilize the same hardware assortments and although the quantities vary based on the physical size of the rack the assembly methods and tools required across all Alphas will be identical. The Bravo line of products will also follow this same pattern.

Illustrations in this guide feature the Alpha/Bravo eXSB product. Charts are provided outlining the MAJOR COMPONENT numbers for each rack assembly listed in Chart 1.

TRUSS mating instructions are found in the rear of this guide and are rack model specific for aligning the load bars to complete the mating process. If you are installing your eX system to a TRUSS bed rack complete the assembly instructions located in this guide and then consult the rear of this manual to find your rack model number and detailed instructions for this process.

COMPONENT CHARTS

Use the charts below to identify the components that make up your rack system. If you are not sure which product you have refer to your order/packing slip. These are the major components required to assemble your rack. There could be other peripheral components (grab handles, scenePODS, etc..included with your order that for simplicity are not listed on these charts.

BRAVO eXSB

Part #	Description	Quantity
2023	Driver Side Plate	1
2024	Passenger Side Plate	1
LB50	Load Bar 50 Inch	7
4008	eX Foot Black SS CB*	4
7002	Hardware Kit	1

NOT SHIPPED IF ORDER REQUESTED FOR TRUSS COMPATIBILITY. Source Kit # 9001 for TRUSS mating. Assembly illustrations in rear of guide.

BRAVO eX6

Part #	Description	Quantity
2007	Driver Side Plate	1
2008	Passenger Side Plate	1
LB50	Load Bar 50 Inch	7
4008	eX Foot Black SS CB*	4
7003	Hardware Kit	1

NOT SHIPPED IF ORDER REQUESTED FOR TRUSS COMPATIBILITY. Source Kit # 9002 for TRUSS mating. Assembly illustrations in rear of guide.

ALPHA eX5B

Part #	Description	Quantity
1021	Driver Side grooveTEK	1
1022	Passenger Side grooveTEK	1
1119	Driver Side Armor	1
1120	Passenger Side Armor	1
LB50	Load Bar 50 Inch	7
4008	eX Foot Black SS CB*	4
8002	Hardware Kit	1

NOT SHIPPED IF ORDER REQUESTED FOR TRUSS COMPATIBILITY. Source Kit # 9002 for TRUSS mating.

ALPHA eX6

Part #	Description	Quantity
1023	Driver Side grooveTEK	1
1024	Passenger Side grooveTEK	1
1121	Driver Side Armor	1
1122	Passenger Side Armor	1
LB50	Load Bar 50 Inch	7
4008	eX Foot Black SS CB*	4
8003	Hardware Kit	1

NOT SHIPPED IF ORDER REQUESTED FOR TRUSS COMPATIBILITY. Source Kit # 9002 for TRUSS mating.

ALPHA eX65

Part #	Description	Quantity
1007	Driver Side grooveTEK	1
1008	Passenger Side grooveTEK	1
1107	Driver Side Armor	1
1108	Passenger Side Armor	1
LB54.5	Load Bar 54 Inch	7
4008	eX Foot Black SS CB*	6
8004	Hardware Kit	1

NOT SHIPPED IF ORDER REQUESTED FOR TRUSS COMPATIBILITY. Source Kit # 9002 for TRUSS mating.

ALPHA eX8 (RELEASE DATE Q2 2021)

Part #	Description	Quantity
	Driver Side grooveTEK	1
	Passenger Side grooveTEK	1
	Driver Side Armor	1
	Passenger Side Armor	1
	Load Bar XX Inch	
4008	eX Foot Black SS CB*	6
8005	Hardware Kit	1

NOT SHIPPED IF ORDER REQUESTED FOR TRUSS COMPATIBILITY. Source Kit # 9002 for TRUSS mating.

ALPHA eXJT5

Part #	Description	Quantity
1051	Driver Side grooveTEK	1
1052	Passenger Side grooveTEK	1
1151	Driver Side Armor	1
1152	Passenger Side Armor	1
LB57	Load Bar 57 Inch	7
4008	eX Foot Black SS CB*	6
8006	Hardware Kit	1

NOT SHIPPED IF ORDER REQUESTED FOR TRUSS COMPATIBILITY. Source Kit # 9002 for TRUSS mating. FIXED LOAD BAR POSITIONS ALIGN TO TRUSS SYSTEM. NO ADJUSTMENT AVAILABLE.

ALPHA ASSEMBLY

Refer to the component charts and gather the major components for your rack. Following illustrations for:

eXSB Alpha

GATHER THE FOLLOWING:

- **7/16” Wrench**
- **5/32” Allen wrench**
- **Load Bars) (quantity will vary)**
- **Driver grooveTEK**
- **Passenger grooveTEK**
- **eX Foot Kit**
- **Tape measure**
- **Hardware “Front/Rear Load Bar”**
- **Hardware “All other load bars”**

STEP 1
FRONT/REAR LOAD BARS

Start with the FRONT and REAR load bar. The HEX bolts will be used for attaching these load bars to the grooveTEK. This is so that you can access the hardware when the armor is installed to adjust the load bar position.

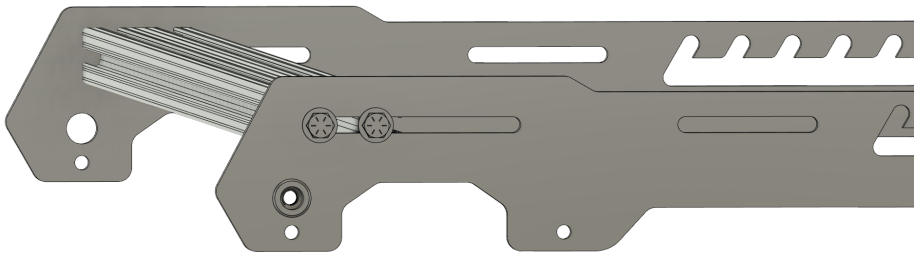

Figure 1
Alpha eXSB Referenced
Driver Side Front Shown

- **Pre-Assemble each hex bolt with a lock washer and flat washer. The FLAT washer will contact the grooveTEK.**
- **Note that the front load bar needs to be FULLY SEATED in the slot. This is to help keep the rack square during assembly and installation. Once the rack is installed this load bar can be adjusted to any position within the slot.**
- **Tighten the bolt assemblies with the 7/16” wrench. Torque specification is 25 inch pounds.**
- **Repeat the process for the passenger side.**

STEP 1 (CONT)
FRONT/REAR LOAD BARS

The rear load bar can be mounted horizontally (matching the front load bar) or vertically. The orientation makes no difference to rack performance or load capacity but it does allow for more surface area facing backwards at the rear of the rack for gear attachment.

Pass through holes for optional quickWIRE™ harnesses are machined in for the vertical orientation. In the horizontal orientation you simply pass the wiring through the slot that the load bar is mounted into.

Reference quickWIRE installation instructions available for download on our website for further detail.

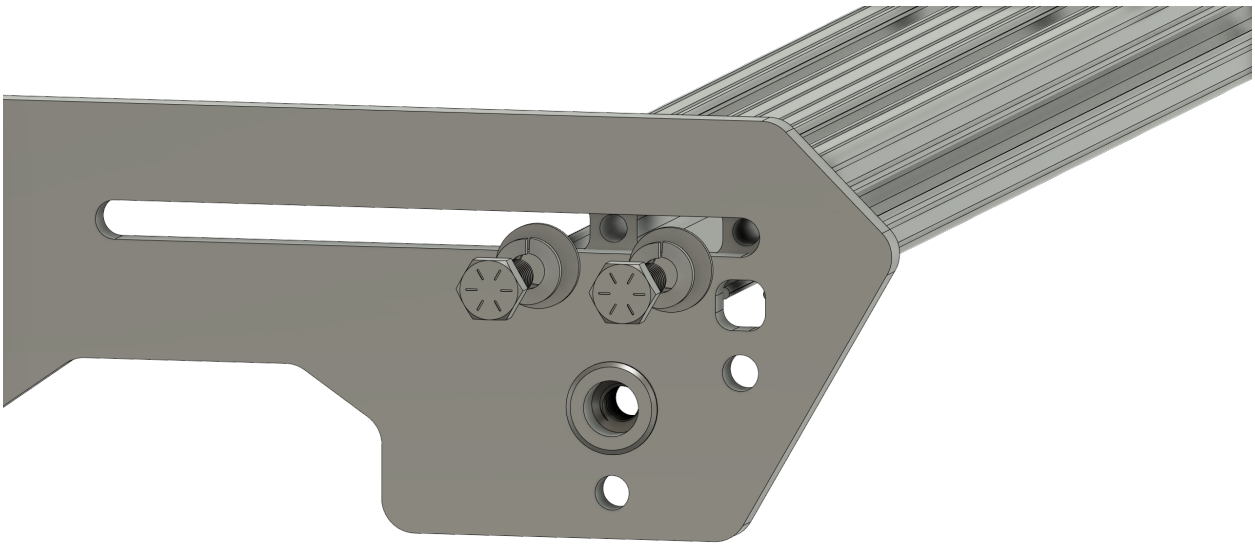

Figure 2
Alpha eXSB Referenced
Driver Side Rear Shown
HORIZONTAL ORIENTATION

- **Pre-Assemble each hex bolt with a lock washer and flat washer. The FLAT washer will contact the grooveTEK.**
- **Note that the REAR load bar needs to be FULLY SEATED in the slot. This is to help keep the rack square during assembly and installation. Once the rack is installed this load bar can be adjusted to any position within the slot.**
- **Tighten the bolt assemblies with the 7/16” wrench. Torque specification is 25 inch pounds.**
- **Repeat the process for the passenger side.**

STEP 1 (CONT)
FRONT/REAR LOAD BARS

This portion is only if you are going to mount the REAR load bar in the VERTICAL orientation. If you completed this step with horizontal orientation proceed to step 3-LOAD BARS ALL OTHER.

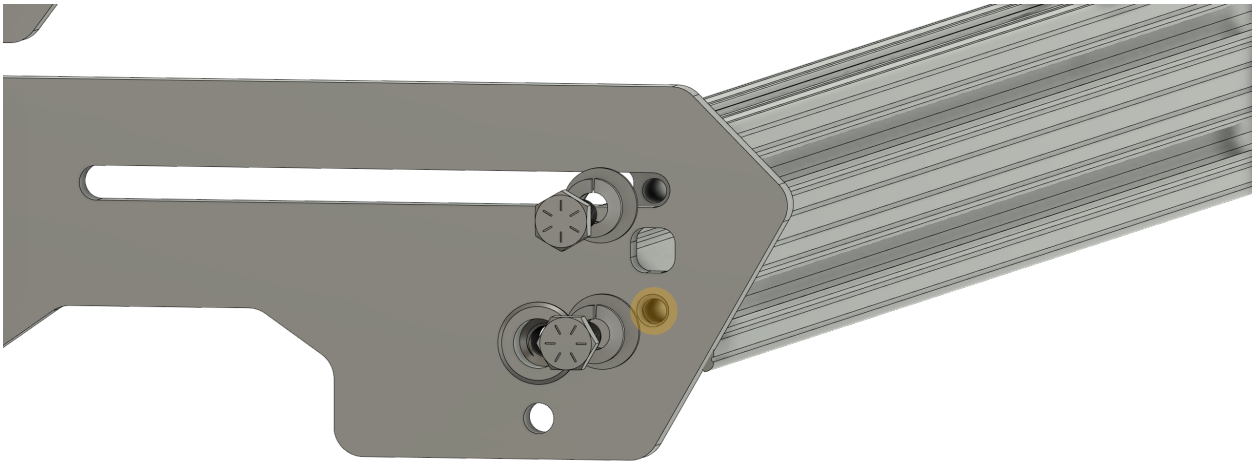

Figure 3
Alpha eXSB Referenced
Driver Side Rear Shown
HORIZONTAL ORIENTATION

- **Pre-Assemble each hex bolt with a lock washer and flat washer. The FLAT washer will contact the grooveTEK.**
- **In the VERTICAL orientation the REAR load bar will have no adjustability. The TOP bolt will align at the rear of the slot and the BOTTOM bolt will align with the smaller hole below the wire pass slot highlighted here in ORANGE.**
- **Tighten the bolt assemblies with the 7/16" wrench. Torque specification is 25 inch pounds.**
- **Repeat the process for the passenger side.**

This orientation allows you to have two (2) hardware slots facing the rear of your vehicle for gear attachment, lighting options, grab handles, etc…This can be changed at any time by removing the side armor plates from both sides of the rack assembly and moving the load bar to the HORIZONTAL orientation.

STEP 2
FEET TO LOAD BAR

The next step requires measuring the cargo tracks on your topper to determine the mounting feet locations.

As a general rule of thumb you want the mounting feet as far apart from one another (in respect to the front/ back of the topper) to distribute the cargo weight loads evenly from the rack to your topper. This facilitates higher load bearing limitations and provides a more stable load platform on top of your truck.

IF YOU ARE MATING your eX rack to your TRUSS system you can skip this step entirely as the feet (4008) won't be used. Instead you will be using 3206 or 3211 TRUSS matePLATE products and this step is covered later in this guide.

You will need to obtain two measurements from the cargo tracks installed on your topper before inserting the remaining load bars into your rack assembly.

First you need to measure the distance center to center of your cargo tracks. Take this measurement close to the front of the topper as well as the rear of the topper to ensure they are even. If they are not you will need to account for this variance. Take these measurements and record them here for reference. If you are viewing this as a PDF record the measurements on scratch paper.

A.) FRONT MEASURMENT CENTER TO CENTER:_____

B.) REAR MEASUREMENT CENTER TO CENTER:_____

The next measurement is for the total length of your cargo track. This will help to set the load bars that the feet are attached to into the rack assembly in the proper locations keeping the mounting feet as far apart as possible. Take this measurement and record it here for reference. If you are viewing this as a PDF record the measurement on scratch paper.

C.) TOTAL LENGTH OF CARGO TRACK:_____

REFER TO THE MAJOR COMPONENT CHARTS TO DETERMINE THE NUMBER OF 4008 FEET SHIPPED WITH YOUR RACK. THIS PROCESS WILL OUTLINE THE INSTALLATION FOR FOUR (4) FOOT RACK DESIGNS. FOR RACKS THAT SHIP WITH SIX (6) OR (8) FEET YOU WILL NEED TO REPEAT THIS PROCESS FOR EACH ADDITIONAL PAIR OF FEET (4008) AND LOAD BAR.

You will find in your kit some machined aluminum spacers. These will be used in later steps as additional lift between the 4008 foot and your cargo track in instances where you are trying to level your eX to an existing roof rack. They can also be used to gain additional clearance away from the painted surfaces of your topper.

Topper designs vary in regards to the "dome" of the roof. Some are flat. Some have an extreme dome effect. This can affect the proximity of your armor in relation to the structure of the topper. We recommend NO LESS THAN .250" of space between any edge of your rack and your topper. The spacers can be installed to dial that distance in for a close fit that leaves the desired buffer sone between the rack and the topper to prevent damage.

The overall height of your rack when it installed is directly affected by the distance between your cargo tracks oil your topper. The closer they are together the higher the rack will sit. The further apart they are the lower the rack will sit. This is because of the dome effect and there is little that can be done to change the outcome unless you move the tracks.

The spacers were designed with this particular problem in mind and allow adjustability for a perfect fit on any topper. Additional spacers are available for purchase by contacting our support team.

STEP 2 (CONT)
FEET TO LOAD BAR

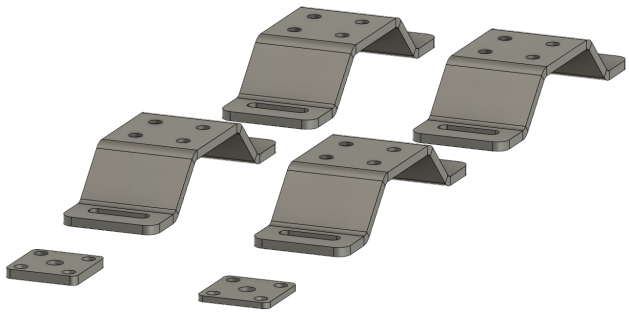

Figure 4
4008 eX Mounting System
4 Piece Kit Components Shown

The stainless steel feet are cnc bent and the final height of the foot is .750" (19mm). Four (4) are shown. If your rack is longer than 65" (165cm) you will have more of the 4008 feet and spacers. This is to evenly distribute the weight of the longer rack systems to longer toppers. You will simply repeat the following steps to install them into the load bars until you've depleted your pile of parts. Sit the spacers aside until mating the eX to your topper. Image shows one of each spacer. You have been shipped multiples of each type to allow adjustability in setting your rack to the perfect height.

The spacers are referred to as follows:

5H125: 1/8" (3.175mm) 5 Hole Spacer
5H190: 3/16" (4.7625mm) 5 Hole Spacer

The raw aluminum is suitable for outdoor environments without the need for a finish to be applied. If you wish to paint them you are free to do so at your discretion. Use a self etching primer/paint and apply in a well ventilated area. Observe all safety precautions as listed on the materials you use.

Additionally you will find an assortment of hardware for using the spacers.

We have tried to supply an assortment of different length bolts that will cover the majority of installation needs. Should you need to source a different length piece of hardware you will need to source:

M6x1.00 Button Head Stainless Steel. Grade 18-8

The tool required for tightening is: 4mm Allen wrench

The torque specification for the hardware SUPPLIED WITH YOUR KIT is : 21 Inch Pounds

You are encouraged to research the torque specification for any hardware that you source independently as it may vary from the hardware that shipped with your kit.

STEP 2 (CONT)
FEET TO LOAD BAR

GATHER THE FOLLOWING:
- **Load Bars (Quantity will vary) 2 Minimum**
  4008 Qty / 2 = Load Bar Quantity
- **Hardware Kit “Feet to Load Bars”**
- **5/32” Allen wrench**
- **VibraTITE VC3 Thread Locking Compound**

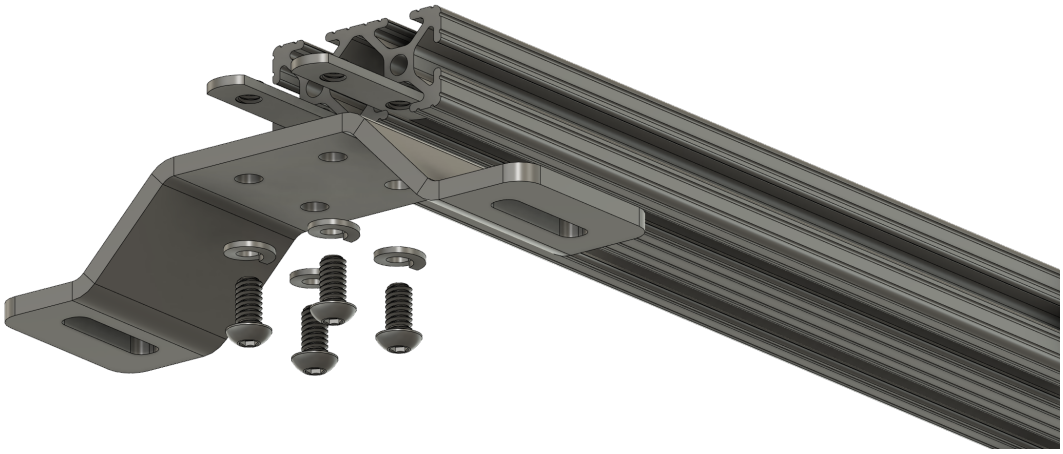

Figure 5
4008 Foot to Rack

APPLY VC3 thread compound to each bolt and allow to air dry for 15 minutes. Material will remain gummy when cured. DO NOT INSTALL FASTENERS until the compound goes from liquid to gummy. This material acts as a shock absorber for your hardware.

- **Install one of the 2X threaded inserts into each load bar hardware channel as shown above.**
- **Sit a foot in place and align the four holes in the foot to the holes in the inserts.**
- **Assemble a lock washer/bolt and install into each hole with 5/32” Allen wrench.**
- ***SNUG THE ASSEMBLIES BUT DO NOT FULLY TIGHTEN. You will need to be able to slide these and adjust them to align on the load bars in relation to the center to center measurements you completed earlier.***
- ***Repeat this process until all of the foot assemblies are completed.***

EACH LOAD BAR USED WILL RECEIVE TWO FEET.

STEP 2 (CONT)
FEET TO LOAD BARS

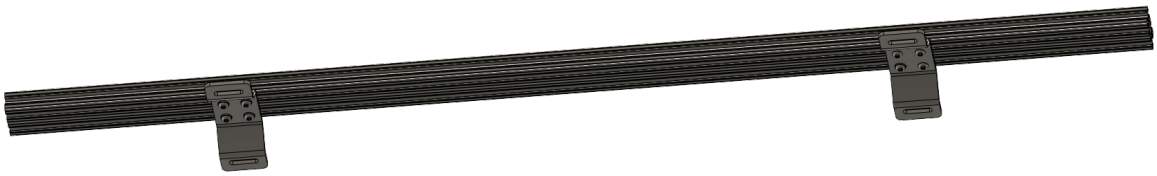

Figure 6
4008 Feet Attached

- **Use the measurements gathered for center to center of your cargo track. (A & B)**
- **Align the feet along the load bar to match those numbers.**
- **You are centering the feet to the load bars to match the center measurements of your cargo track.**
- **The 4008 feet feature a 1" slot to allow for a little misalignment (it happens to the best of us).**
- **Confirm your measurements and tighten the hardware.**
- **Torque Specification is: 21 Inch Pounds**
- **Repeat the process for all remaining feet/load bars.**

For rack assemblies that will use more than two (2) pair of 4008 feet you will place them evenly spaced from one another in step 3. Although the set distance apart is not a given number it is good practice to understand that the further apart they are the more weight you can carry.

STEP 3
ALL OTHER LOAD BAR INSTALLATION

Use the measurement obtained of your overall cargo track length to determine load bar placement. We want the load bars with the feet as far apart as they can be to provide rack stability and distribute the weight loads placed on the rack to the cargo tracks which will in turn distribute that weight to your topper.

GATHER THE FOLLOWING:
- **5/32 Allen wrench**
- **Hardware Kit "All other load bars"**
- **Remaining load bars (this will include the load bars connected to feet in step 2 as well as the other load bars that do not/will not have feet attached to them.**

The remaining load bars will bolt into the rack assembly with button head bolts as opposed to the HEX bolts used on the front and rear load bar. This is because they are easily accessed anytime with the rack installed for adjusting the position of the load bars.

NOTE
You will not be able to adjust the position of a load bar with a 4008 foot attached to it after installation unless you also loosen the hardware that attaches the 4008 foot to your cargo track. We mention this because it is impossible to remember which load bars the feet are attached two six months after installation and you can seldom see the connection points from the ground. If you attempt to adjust a load bar and it doesn't want to slide be sure that it doesn't have a foot attached to it hidden by all the cool gear you have attached to your rack.

STEP 3 (CONT)
ALL OTHER LOAD BARS

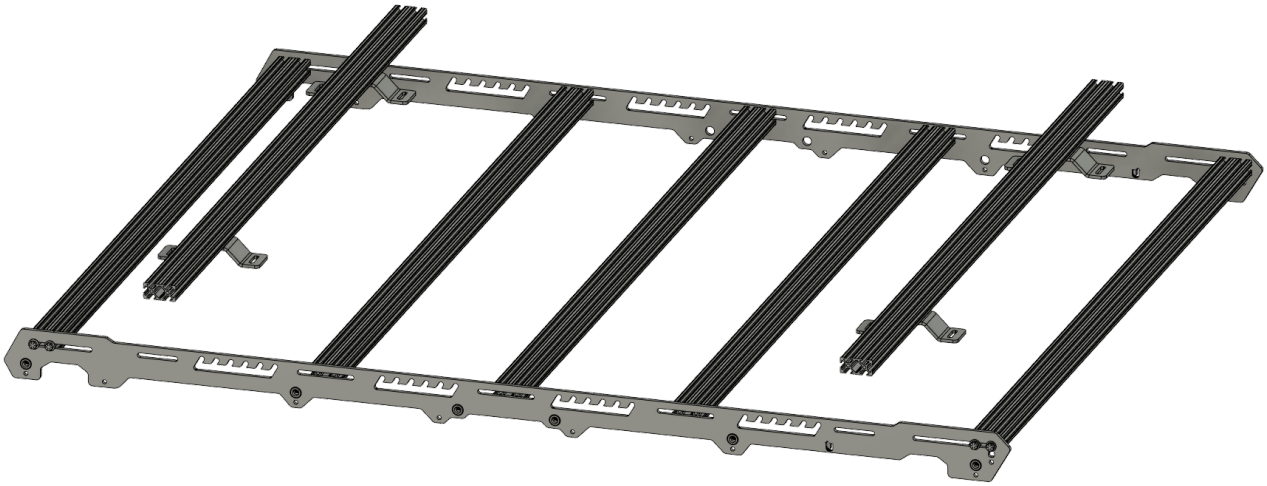

Figure 7
Alpha eXSB Referenced
Driver Side Shown

In this illustration notice the location selected for the load bars with the 4008 feet attached to them. We've kept them as far apart as we could without using the front or rear load bar. Typically the geometry of the topper isn't compatible with the front and rear load bar as an attachment point for a mounting foot.

Use the measurement of your cargo track length © to determine the location for the load bars with the 4008 feet attached to them.

Since the orientation of the rear load bar can be rotated between vertical/horizontal it makes the rear load bar a poor choice for 4008 attachment.

The load bars used in this step will vary in quantity based on the make/model of your rack. The hardware used will be the same for each of the remaining load bars. Each load bar will require four (4) of the following

- **1/4-20x1 Button Head Bolts**
- **1/4" Lock Washers**

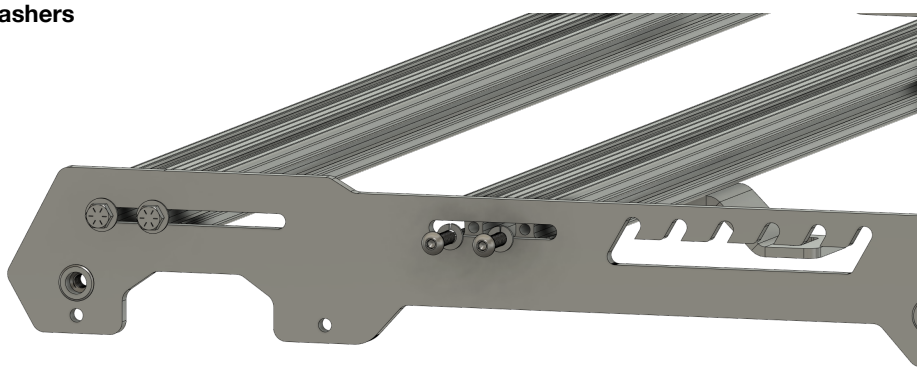

Figure 8
Alpha eXSB Referenced
Driver Side Shown

This illustration shows the difference between the hardware for the front/rear load bar in comparison to the hardware used for all the remaining lot bars.

STEP 3 (CONT)
ALL OTHER LOAD BARS

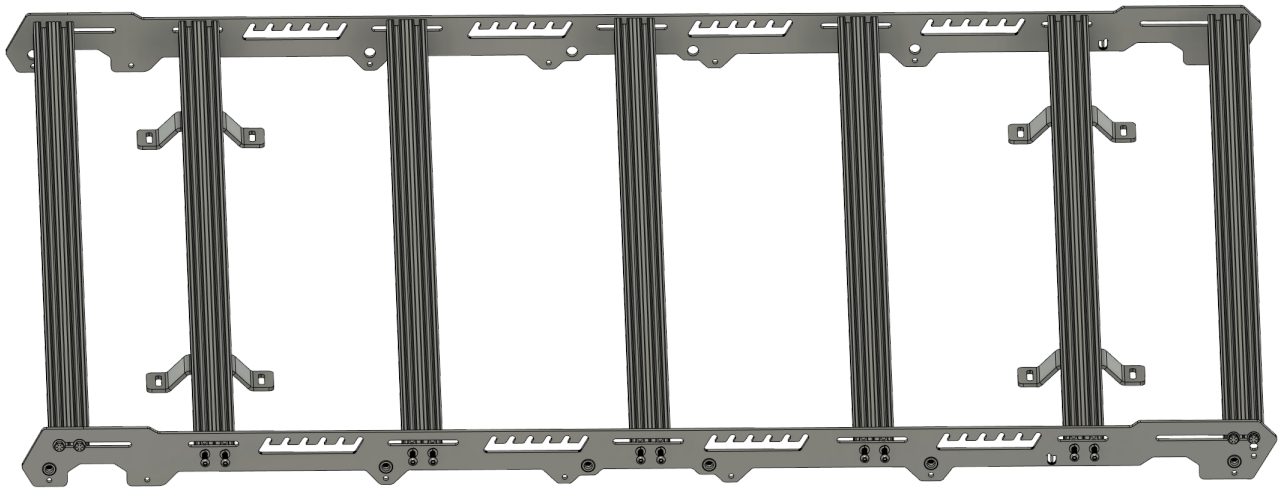

Figure 9
Alpha eXSB Referenced
Driver Side Shown

- **Install the remaining load bars into the rack assembly.**
- **Torque Specification is: 21 Inch Pounds**
- **Repeat the process for the hardware on the passenger side.**

NOTE
Your rack assembly may have more load bars/4008 feet than this illustration. The steps, hardware and torque specifications are IDENTICAL for all Alpha eX products just keep the additional 4008 equipped load bars evenly spaced.

If you are mating your eX rack to a TRUSS bed rack system you will not use the 4008 feet. The 3206/3211 feet used for this process are outlined in the rear of the guide in the section that covers TRUSS MATING.

STEP 4
GRAB HANDLES

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.

STEP 5
ARMOR ATTACHMENT

The armor included with your Alpha eX is designed tp provide the aesthetics that match your Alpha roof rack (if equipped). It also strengthens the subframe of your rack assembly increasing your load capacity over a Bravo platform. In addition to those awesome features it is the reason that you can integrate lighting and grab handles seamlessly while concealing the wiring and connections safely inside the rack assembly keeping a clean look that is protected from trail damage.

All armor attachment points for Alpha eX racks are Zinc plated M8x1.25 rivnuts that are field serviceable and treated to resist corrosion that happens from pairing dissimilar metals such as stainless steel and aluminum. This also results in a stronger attachment point from previous versions that feature tapped aluminum holes.

Each connection point will use a 35mm M8x1.25 Stainless Steel button head bolt with a lock washer. In addition each connection point will use a black plastic spacer to provide space between the armor and grooveTEK™ for wiring chases.

The fasteners for the grab handles are the longer 55mm M8x1.25 Bolts to isolate the safety wire crimps from the armor of your rack.

If you are installing optional quickWIRE harnesses or scenePODS™ you are encouraged to reference the installation guides for those products and perform those steps before proceeding with armor attachment.

GATHER THE FOLLOWING:

- **5mm Allen wrench**
- **Hardware Kit " Armor to grooveTEK" (35mm)**
- **Hardware Kit "Grab Handles" (55mm)**
- **Driver side Armor**
- **Passenger Side Armor**

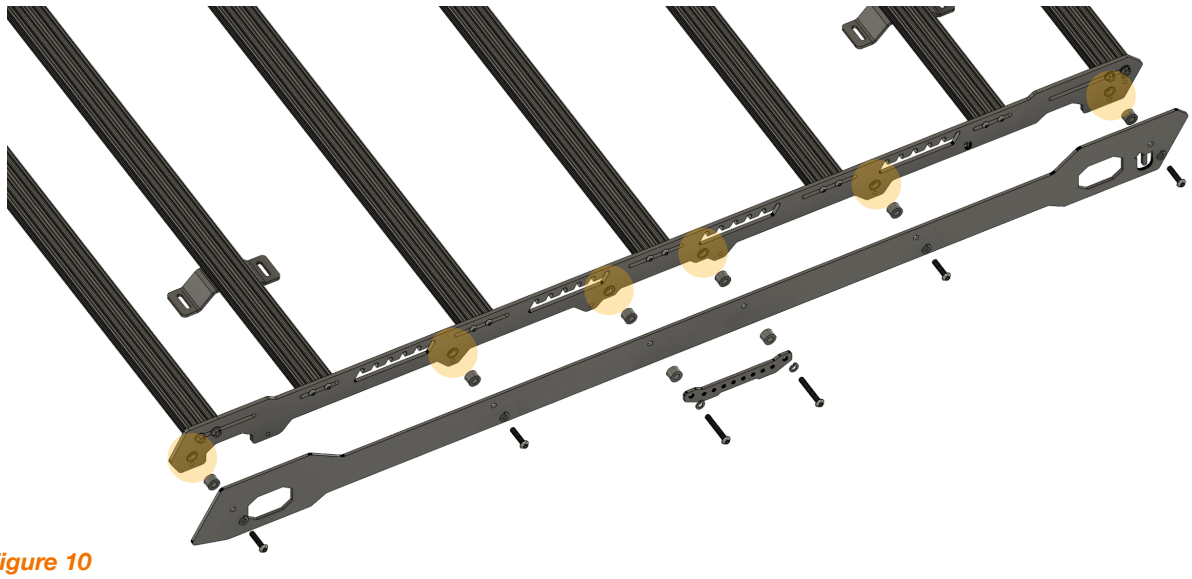

Figure 10
Alpha eXSB Referenced
Driver Side Shown

Follow the assembly order in the illustration and attach the armor to your grooveTEK. Align to the rivnuts shown here in orange.

The smaller untapped holes are anchor points for optional quickWIRE harness kits.

STEP 6
TOPPER MATING

If you are mating your eX to a TRUSS bed rack system SKIP THIS STEP.

PRe-INSTALLATION STEPS

You will need to install the provided threaded slide into your cargo tracks prior to lifting the rack up onto your topper.

Some toppers have caps or covers attached at the ends of the tracks. These will need to be removed to allow the threaded inserts to slide into your cargo tracks. Refer to the make/model of your cargo tracks for information on removing these caps. You can re-install them once the installation is completed.

GATHER THE FOLLOWING

- **Tools required for removing caps or covers on your cargo tracks (if equipped).**
- **Hardware Kit "Rack to Tracks" (You will only dig out the threaded inserts for now. Sit the hardware and spacers aside and come back for them during final installation.**

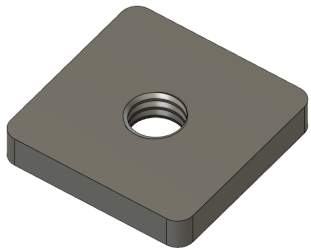

Figure 11
Cargo Track Insert

Your kit contains the zinc plated threaded inserts used for attaching the upTOP rack to your cargo tracks. These inserts are verified to fit Thule™ and Yakima™ cargo tracks. If you require a different size you will need to source them from the manufacturer of your cargo track. We do not source or stock additional attachment hardware at this time.

The threaded inserts are tapped M6x1.00 and any additional cargo track inserts you are required to obtain must match this thread pitch or the hardware shipped for this step will NOT be compatible.

- **Slide the threaded inserts into your cargo track. The quantity required will vary but you need two threaded inserts per foot inserted into each cargo track.**
- **The position of the threaded inserts is not important as they can be slid into position in relation to the position of the rack when lifted onto your topper.**
- **A small pick tool or screwdriver can be helpful in sliding/pushing the inserts into position under each of the slots in the 4008 feet.**
- **Be sure that before you install any hardware into the threaded inserts that you have one in place under each slot. It would be less than optimal to seat the hardware and find out that you've blocked the cargo track from sliding other inserts into position.**

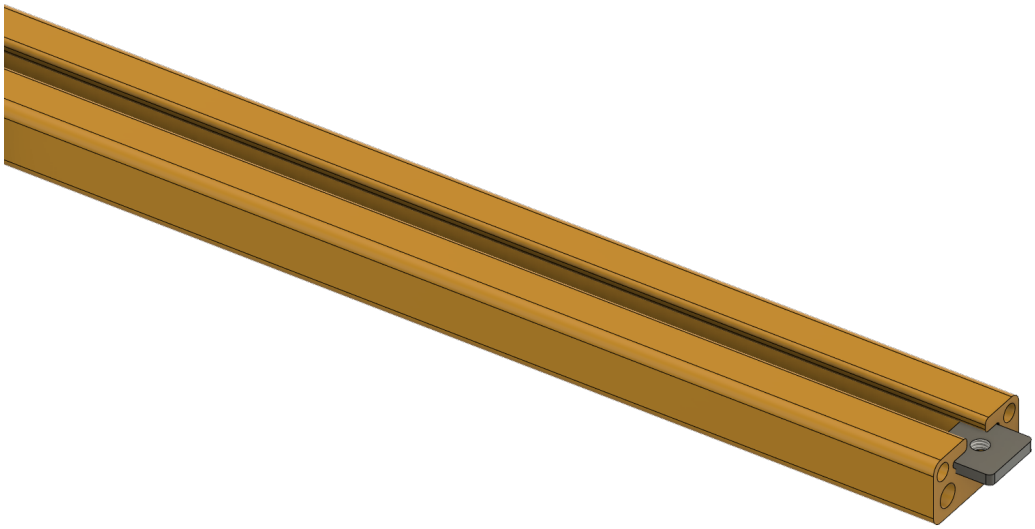

Figure 12
Cargo Track Threaded Insert

- ***Insert the appropriate amount of threaded inserts into the cargo track (shown here in yellow)***
  4008 x 2 = Number of inserts per cargo track.

NOTE

The threaded inserts provided to you for cargo tracks are sized to fit inside Thule™ and Yakima™ track products. They should freely slide into the track and to any position of the track without forcing them to move.

In some cases the hardware that attaches the cargo track to the roof the fasteners have not been fully tightened causing the head of the fasteners to protrude into the channel that the threaded inserts are designed to travel.

If you encounter this you will need to rectify that issue or insert the threaded inserts from the opposite end of the track if you can in order to slide them into place.

Forcing the threaded inserts into position can cause damage to the extruded channel in your cargo track causing the threaded inserts to wedge into position and become stuck.

If you are using ANY OTHER BRAND of cargo track you will need to source threaded inserts specific to your track system if the ones provided to you do not fit, fit loosely, or fail to grab inside the extruded channel.

The threaded inserts were developed for the two most popular cargo track systems installed by topper manufacturers and we DO NOT stock or provide any other size threaded insert for completing this task.

If you are sourcing threaded inserts for your cargo tracks you will need to ensure the thread pitch is compatible with the provided hardware.

The provided hardware is M6x1.00.

STEP 7
RACK TO ROOF

You are encouraged to perform this step with assistance from another person. Although the rack is light weight it is an awkward lift overhead to the the rack into position on your cargo tracks.

GATHER THE FOLLOWING

- **4mm Allen wrench**
- **Hardware Kit “Rack to Tracks”**
  - **This will include the 5H spacers discussed earlier in the guide**

- **Lift the eX Rack assembly up onto the topper of your truck.**
- **Align so that the 4008 feet rest on the cargo track channels.**
- **Center the rack on the topper (front to back).**
- **If you have a roof rack attached to your truck as well you want at least .750” (3/4”) between the armor of your eX rack and the armor at the rear of your roof rack. This will allow proper clearance as the frame of the truck articulates in off road environments.**
- **Failure to provide the proper clearance can cause the eX to collide with roof racks causing damage to the rack.**

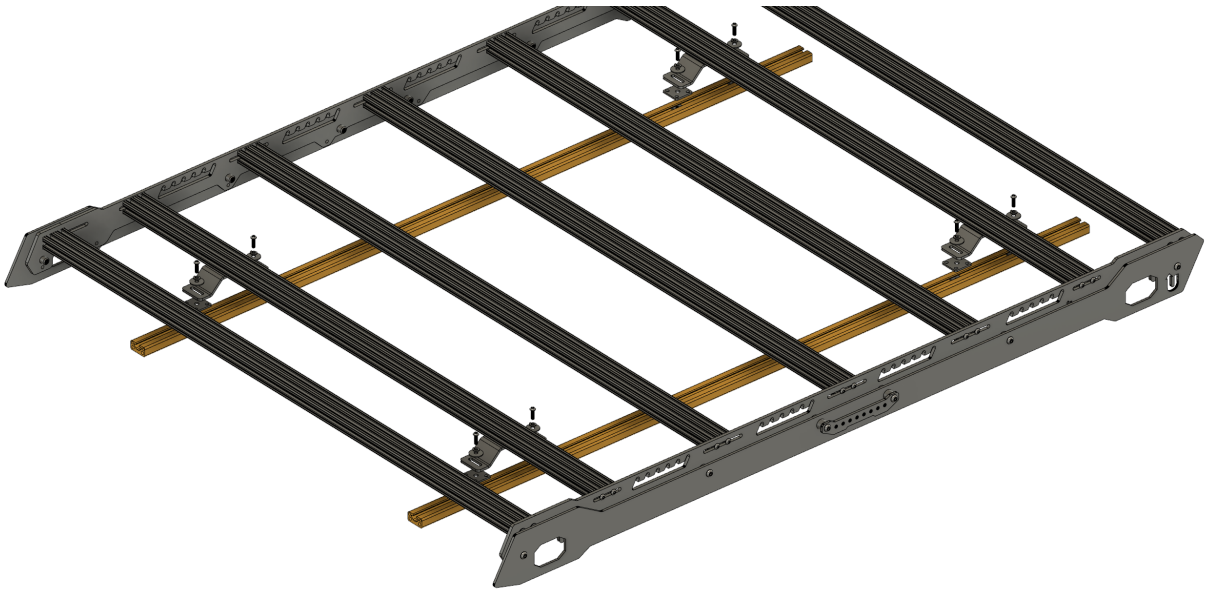

Figure 12
Alpha eXSB Referenced
Driver Side Shown

In this illustration the 4008 foot location can be seen in proper alignment with the cargo tracks. Note how far apart the 4008 feet are from one another. This will provide the most stable platform for cargo weight distribution.

Longer rack assemblies will have more 4008 locations. They should be evenly spaced to provide a better cargo weight distribution.

The 5 Hole spacers pictured will be covered in the next step.

STEP 7 (CONT)
RACK TO ROOF

The included 5 Hole spacers are to be employed when leveling an eX rack to an existing roof rack product. In addition to this purpose they can also be installed to provide more clearance between armor and the painted surfaces of your topper.

We've included a kit that contains the following (quantities will vary based on rack length):

- **5H 125 .125" (1/8") Aluminum spacer**
- **5H 190 .190" (3/16" Aluminum spacer**
- **16mm M6x1.00 Hardware Proper Length for NO 5H Spacers**
- **20mm M6x1.00 Hardware**
- **25mm M6x1.00 Hardware**
- **30mm M6x1.00 Hardware**

The varying length hardware can be substituted based on the amount of spacers that you use in any given 4008 location to attain proper alignment and a level platform.

This system was designed to provide a degree of "universal" in-field eX mating to account for variance in track height, track placement, and topper bow all of which can influence the final resting height of your eX rack system.

To align the load bars of your eX to an existing roof rack you will need to obtain a measurement from your roof rack load bars.

Figure 13
Alpha Roof Rack/eXSB Referenced

- ***Place a straight Edge across the load bars of the roof rack and extend out over the load bars of the eX.***
- ***Measure the distance between the bottom of the straight edge and the eX load bar (shown here in ORANGE).***
- ***Stack the 5H Spacers (any combination of the 5H 125/5H 190 to equals the gap you've just measured.***
- ***This will become the assortment of spacers that go BETWEEN THE 4008 foot and YOUR CARGO TRACK at each location.***

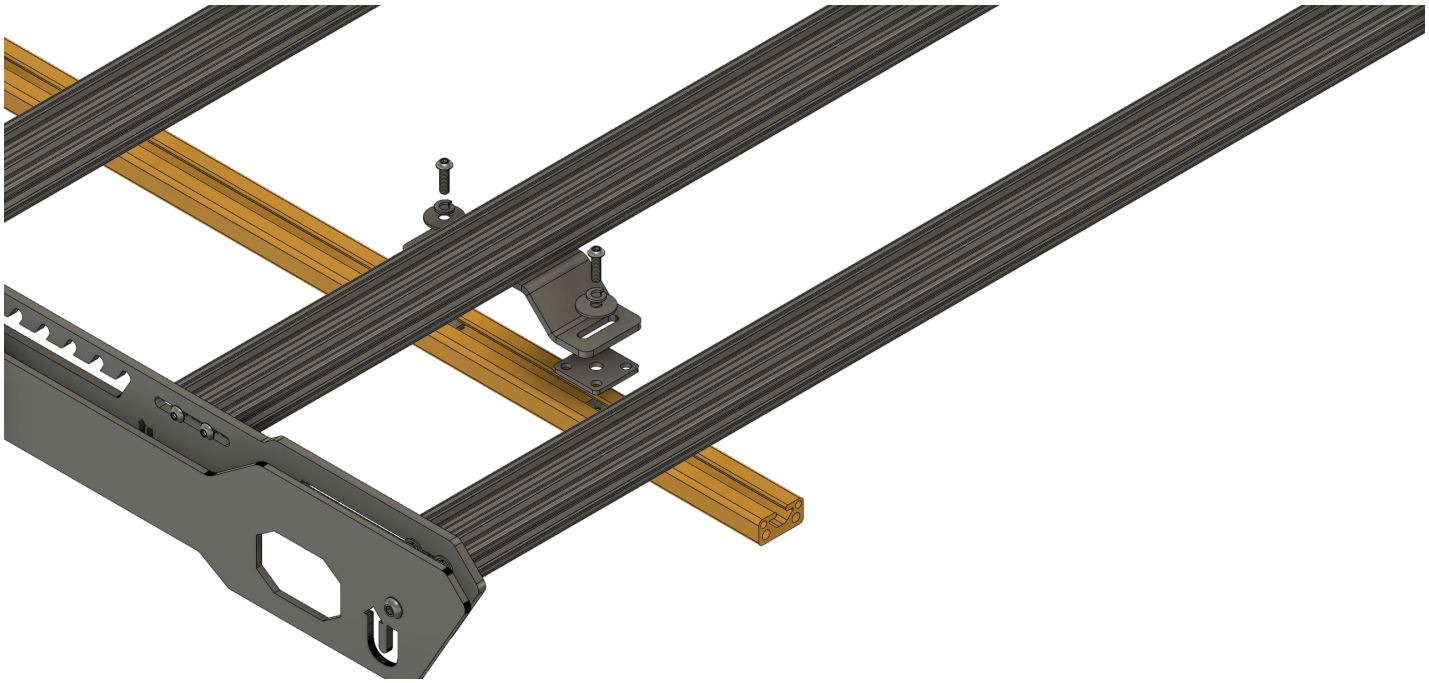

Figure 14
Alpha eXSB Referenced
5H Spacer Installation

- **Apply VC3 thread compound to each fastener and allow to dry.**
- **Install the hardware with the appropriate amount of spacers as shown in the illustration (*Figure 14).***
- ***Repeat the process for all remaining 4008 feet.***
- ***Using the correct length M6x1.00 Bolt ensure that each fastener is seated (not bottomed out) and tightened. Torque specification for cargo track bolt(s): 21 Inch Pounds***

If needed additional spacers can be purchased by calling technical support M-F 8am-4pm MDT.

Periodically inspect all hardware assemblies to ensure they are within specification.

BRAVO

eXSB/eX6

This portion of the guide covers only the EXPLODED diagrams for the assembly/components of the Bravo line of products.

For the Major Component Chart see PAGE 3

For mounting the 4008 feet to the load bars can be found on PAGE 12-13

For Installing the rack to the topper cargo tracks see PAGE 18-22

NOTE

Bravo Rack assembly for Load bars to Rack Sides requires only 1/4-20x1 Button Head Bolts/Lock Washers. Hex bolts are only used in assembly of Alpha Series racks.

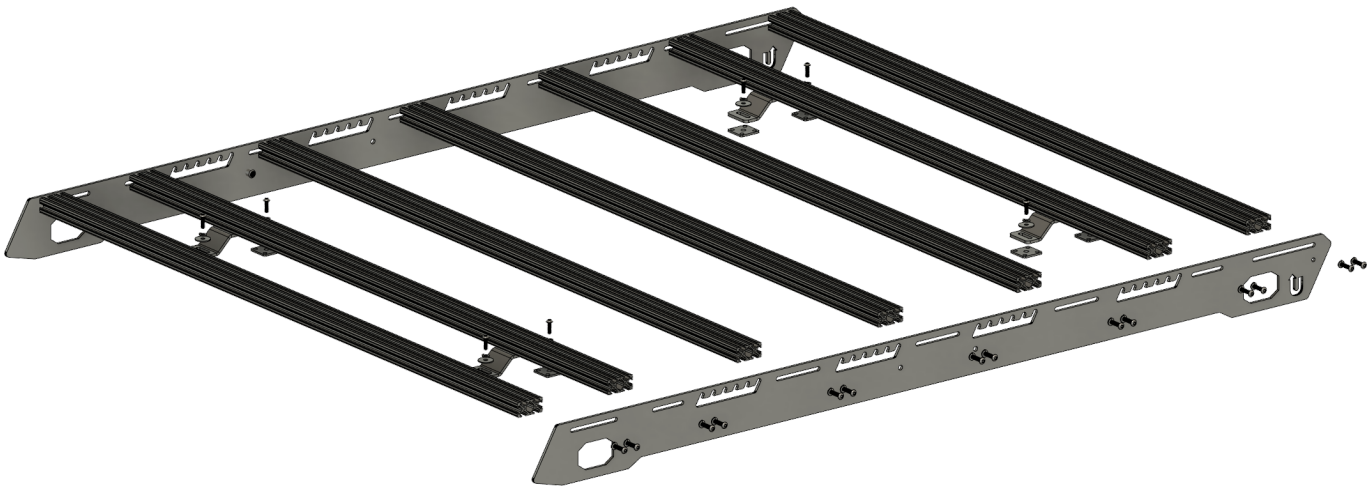

Figure 15
Bravo eXSB Shown

Shown here exploded with the major components and hardware.
Note that all seven (7) load bars require the same 1/4-20x1 Button head bolts and lock washers.
• Refer to PAGES 12-13 of this guide for 4008 foot installation.
• Refer to PAGES 18-22 of this guide for mating the eX Bravo to your truck.
• With the 4008 feet installed using a 5/32” Allen wrench install all seven (7) load bars into the assembly.

The BRAVO racks are the same physical size as their Alpha counterparts. The assembly procedure varies in that the BRAVO racks utilize a one piece side design whereas the Alpha racks have the two piece grooveTEK/ Armor design. The major difference between the eXSB and eX6 Bravo rack will be the additional load bar in the eX6 chassis for a total of eight (8).

TRUSS MATING

One of the proprietary features of the upTOP overland rack system is the ability to couple an eX rack to the TRUSS bed rack system (sold separately) for additional load capacity, grab handles, scenePOD lighting options and a multitude of panel mounting options for todays popular overland gear.

Task specific instructions for the TRUSS bed rack systems can be located on our website and ARE NOT COVERED in this section of the guide.

The following material only covers the mating and attachment methods for coupling an eX rack to a TRUSS bed rack system assuming that the TRUSS bed rack system is already assembled and installed onto your vehicle.

Figure 16
TRUSS Full Height Shown with Alpha eXSB

The optional TRUSS bed rack system (seen here in gold) can be fitted with an eX rack system at any point during ownership. Mild disassembly will have to be undertaken of the TRUSS bed rack system in order to install some mating hardware into the load bars of the TRUSS.

The position of this hardware will be specific to each eX rack assembly as the load bar positions vary on the eX products. These positions will be outlined for each eX model at the rear of this guide.

The following steps pertain to the hardware locations, mating hardware/brackets, and assembly order for successful alignment and installation of an Alpha eXSB rack system to a FULL HEIGHT (19.00") TRUSS onto a Toyota Tacoma truck.

We have developed an entire system of mating connectors for attaching TRUSS systems to eX racks to attain a level load platform that is parallel with a matching upTOP overland roof rack.

These are vehicle specific and further information can be obtained by contacting our support team.

Unless otherwise specified on your order or ordered at the same time as the TRUSS bed Rack system, Roof rack and peripherals all mating hardware shipped will be PN#3211 and the height align will be perfect for Toyota Tacoma trucks.

Locate your eX rack system in the chart below. It will serve as reference for the load bars that you need to interface with to align to an upTOP TRUSS Bed Rack System.

eX Rack System	TRUSS System	Load Bar(s)	Mating Connector
Alpha eXSB	MH, FH	2,6	3211
Alpha eX6	MH, FH	2,6	3211
Alpha eX65	MH, FH	2,6	3211
Bravo eXSB	MH, FH	2,6	3211
Bravo eX6	MH, FH	2,6	3211

Load bar numbers identified in sequential order from FRONT position. FRONT position is the load bar nearest the cab. FRONT position referred to as LOAD BAR 1.

Level platform alignment is NOT available on reTRAX or softTOPPER TRUSS systems. The design will NOT permit the platforms to align.

There are currently no mating designs available for eX8 models (Alpha/Bravo).

MH = MID HEIGHT FH = FULL HEIGHT

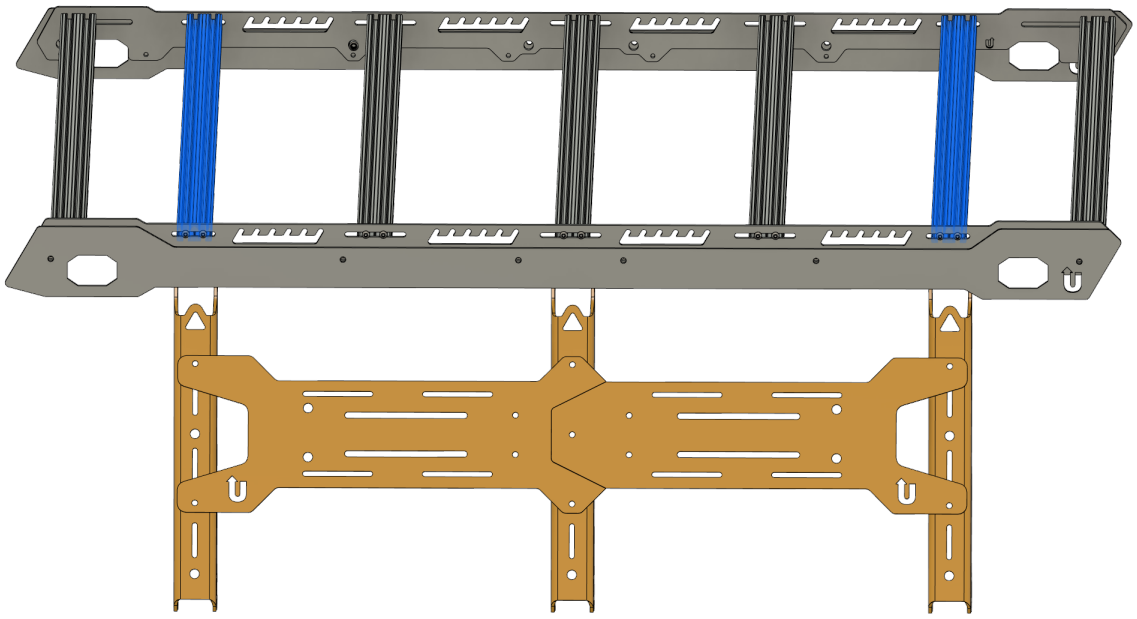

Figure 16
Alpha eXSB Referenced

This image shows how we reference load bars 2 and 6 on an eXSB shown here in BLUE.

Notice the alignment over the fixed dimensions of the TRUSS legs.

Front of rack (Load Bar 1) is at LEFT of this image.

TRUSS MATING (CONT)
THREADED INSERTS

The system we have designed incorporates the load bars of your TRUSS system and couples them to the load bars (shown on page 25) in your eX rack system at two attachment points per load bar that is used resulting in an assembly capable of supporting a tremendous amount of weight while providing the integrated cosmetic look that upTOP products are known for.

GATHER THE FOLLOWING

- **5/32” Allen wrench**
- **3211 Mating plate kit with hardware**

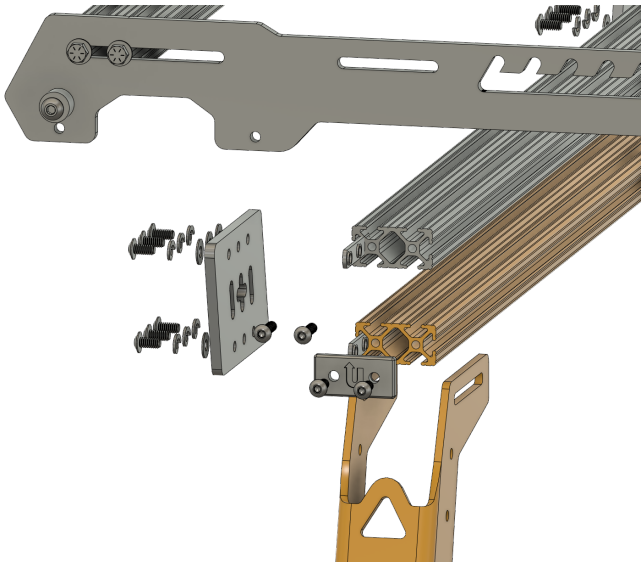

Figure 17
Alpha eXSB Shown (Armor removed for clarity-NOT REQUIRED)
FRONT TRUSS LEG SHOWN-Driver Side

This exploded illustration details how the included mating hardware couples the TRUSS load bars to the eX load bars.

APPLY VC3 thread compound and allow to dry to ALL fasteners used in this process.

The MIDDLE leg of a TRUSS system is never used in this assembly. It should remain installed in the TRUSS bed rack system to provide center stability to the middle legs of the TRUSS but you will NEVER connect any eX mating hardware to the middle load bar of the TRUSS. Only the FRONT and REAR load bars will be interfaced with. All the following steps are 5/32” Allen wrench unless specified otherwise.

- **Start by removing the end caps (logo plates) on the FRONT and REAR TRUSS leg. You only need to do this on one side. You will be able to feed the hardware through one end to reach both sides of the truck.**
- **Remove the three (3) hardware assemblies that currently mount the load bar into your front TRUSS LEG nearest the cab and rear TRUSS LEG from the side nearest your tailgate.**
- **Slide the existing threaded insert (black with three threaded holes) towards the center of the roof rack.**
- **Slide an additional new one into that same slot and push it PAST the truss leg attachment points.**
- **Finally slide in a second new one and stop it where the TRUSS legs attach to those load bars.**
- **Re-install the three (3) bolt assemblies that attach the truss leg to its load bar.**
- **Remove the hardware securing the 2nd and 6th load bar and insert two (2) of the threaded inserts into the channel as identified above. You will be installing two (2) into each load bar.**
- **Re-Install the hardware to secure both load bars back into the eX rack assembly.**

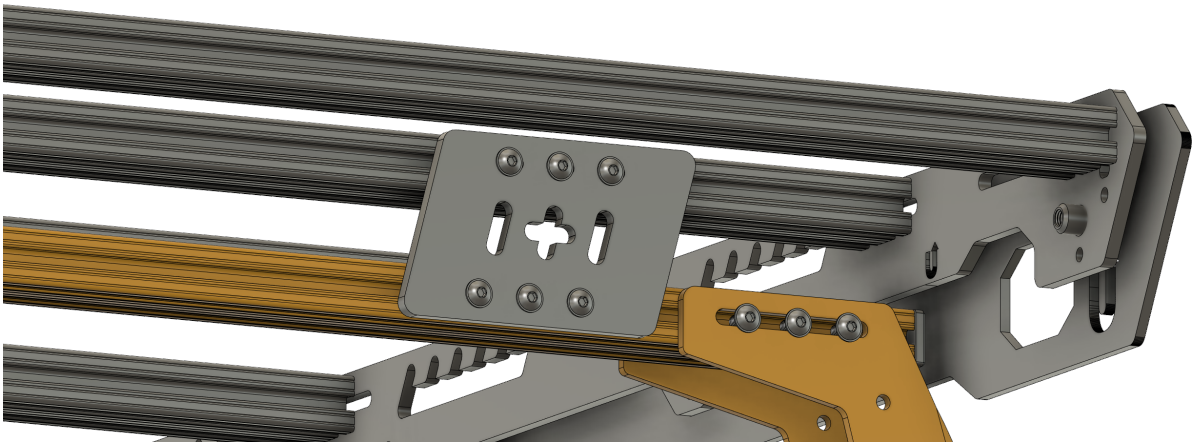

Figure 18
Alpha eXSB Referenced
Passenger Rear Corner Shown

This is a close up of the properly assembled 3211 plate mating the load bar of the TRUSS bed rack system to the 6th load bar of an Alpha eXSB.

Note the spacing and additional slots for attachments machined into the 3211. Use these slots for lighting or tool mounts as needed.

This illustration shows one (1) of the four (4) attachments you will make using the 3211 mating plate and associated hardware. There are two (2) attachment points per load bar used.

Additional 3211 plates can be purchased separately if you choose.

Figure 19
Alpha eXSB Referenced

Shown from rear of truck.

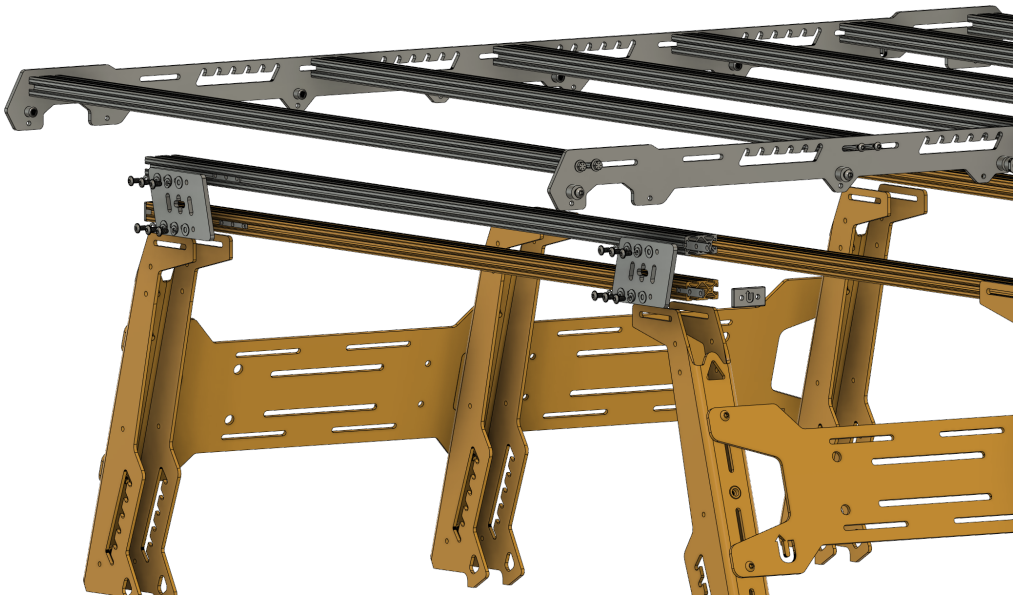

Figure 20
Alpha eXSB Referenced

Front TRUSS load bar connection points shown.

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.**