

3rd Gen Tundra

PRINSU PRO RACK



Applications

installation instructions

These installation instructions apply to the following Prinsu products

– **3rd Gen Tundra** Prinsu PRO Rack | 2022-Present

IMPORTANT!

THANK YOU for purchasing this Prinsu product. Please read through this entire document before proceeding with installation. If you are not confident in your mechanical skills, please seek the help of a professional to perform the installation. Check your packages immediately upon arrival to ensure that everything listed is included, and to check for damage during shipping. ***If anything is missing or damaged, or if you need technical assistance with any aspect of this installation, call Prinsu at (208) 528-0664 as soon as possible.***

Hardware Included

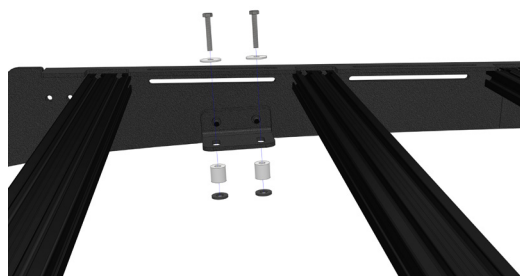
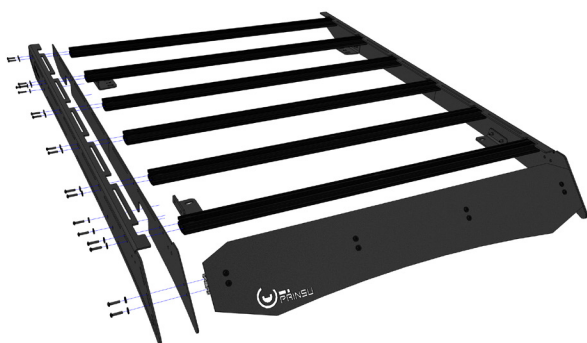
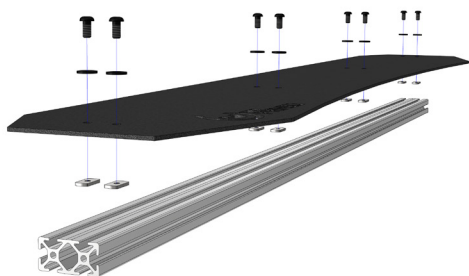
3rd Gen Toyota Tundra CrewMax Roof Rack Mounting Hardware		
DESCRIPTION	QTY	TORQ
0.319"ID-3/4"OD x 5/8" Long Aluminum Spacer	8	N/A
3/8" x 13/16" x 3/32" EPDM Washer	8	N/A
1/4"-20 0.020" - 0.280" Grip Range Yellow Zinc Flat 1"Length Steel Sherex™ CPB Rivet Nut	8	N/A
1/4"-20 x 2" Steel Hex Cap Screw Zinc	8	N/A
1/4" x .734" x .062" Steel Flat Washer	8	N/A
3rd Gen Toyota Tundra CrewMax Roof Rack Mounting Feet Hardware		
1/4"-20 x 1" Stainless Steel Button Head Socket Black Oxide	18	8 ft-lbs
1/4" x .625" x .0625" Stainless Steel Flat Black Oxide Washer	18	N/A
Prinsu Plus Nut Install kit		
1/4"-20 x 2-1/4" Steel Tap Bolt Zinc	1	8 ft-lbs
1/4" x .625" x .062" Steel Flat Washer	2	N/A
5/16"-18 x 1-1/8" Steel Coupling Nut Zinc	1	N/A
1/4"-20 0.020" - 0.280" Grip Range Yellow Zinc Flat 1"Length Steel Sherex™ CPB Rivet Nut	1	N/A
Crossbar Hardware (For 8 Cross Bars, 7 Pro and 1 Clear) 51"		
1/4"-20 x 1" Stainless Steel Button Head Socket Black Oxide	34	8 ft-lbs
1/4" x .625" x .0625" Stainless Steel Flat Black Oxide Washer	34	N/A
Vibra-Tite 111 Low Strength Threadlocker Pack of 3 Tubes	1	N/A
Wind Deflector Hardware		
1/4"-20 x 1/2" Stainless Steel Button Head Socket Black Oxide	10	8 ft-lbs
1/4" x .625" x .0625" Stainless Steel Flat Black Oxide Washer	10	N/A
1/4"-20 Stainless Steel Dual Tab Spot Weld Nut N/A	10	N/A



WEIGHT CAPACITY:
 600lbs dynamic load capacity and 1,000lbs static load capacity

Tools Required

- Tape Measure
- 5/32 Allen
- 1/2 wrench
- 7/16 wrench/socket
- Drill and Sharp Drill bits
- 7/8 hole saw (optional)
- Utility Knife
- Side cutting pliers
- Flat Head Screwdriver



IMPORTANT!

All products built and designed by Prinsu Design Studio are intended for off-road use and should be assembled, installed, and used according to Prinsu Design Studio's recommendations. Prinsu Design Studio products should be used safely with good judgment towards others and the environment. By installing Prinsu Design Studio Products on your vehicle you assume all liability. Prinsu Design Studio will not be held liable for damages or loss associated with the installation or use of its products.

Be smart, use good judgement, don't overload your vehicle to the point of inferior handling and maneuverability!

*** WARNING ***

Neither the seller nor the manufacturer will be liable for any loss, damage, or injury directly or indirectly arising from the use of or inability to determine the use of these products. Before using, the user shall determine the suitability of the product(s) for its intended use(s), and the user shall assume all responsibility and risk in connection therewith.



** Use the video link below only for the Drilling and Mounting step under Sequence of steps: Step 3



Sequence of Steps

1. Un pack Prinsu box and prep hardware and brackets

- Lay out a moving blanket on the floor and start laying out all your Prinsu parts.
- Verify you have 2 outer side rails, 2 inner rear side rails, 2 inner front side rails, 7 Pro crossbars, 1 silver cross bar, 1 wind deflector, noise reducing trim, and several hardware bags.
- Empty out the hardware bags, but keep them sorted and organized
- Put a washer on every bolt and a dab of vibra tite thread locker on the end of each bolt. Prepping all this hardware will make for a much smoother install.

2. Partially assemble Prinsu rack

- Use your $\frac{3}{4}$ long black bolts to attach the mounting bracket to the side rails. The mounting feet are all the same so location is not specific.
- Install a crossbar in the front, one in the middle, and one in the rear of the rack. Cross bars are meant to be installed in the smaller slots in the side rail, make sure that you install the inner side rail between the outer side rail and the cross bar. Also don't install a cross bar over a mounting bracket just yet, you will need access to the mounting bracket to bolt the rack to the truck.

3. Measure and drill rear mounting holes.

- Now on the rear of the cab you will measure 1 $\frac{1}{4}$ inches forward from the black colored trim. You can reference our install video on Youtube for the Regular Prinsu rack, the drilling is in the same location as the Pro Rack. Like posted below https://www.youtube.com/watch?v=rIp_SjEIsdI&t=152s
- Once you make your 1 $\frac{1}{4}$ inch marks on each side of the vehicle, you can place one of the black aluminum spacers centered over your 7 inch marks and trace around the spacer. You can use your utility knife to cut out the foam type material until you get down to metal. You'll need to have a nice clean surface for the Pro rack to seal properly so make sure to remove all the foam material for the spacer to sit flush to the cab of the truck.
- The other option is to take a $\frac{7}{8}$ hole saw and drill on your 1 $\frac{1}{4}$ inch mark, this is an EXTREME CAUTION situation, the hole saw bit is only designed to remove the foam NOT drill through the roof with a $\frac{7}{8}$ hole. This will cause irreparable damage! I prefer to use this method because it has a really clean look and a spacer fits in the $\frac{7}{8}$ foam cutout perfectly you just have to be very careful.
- Once this is accomplished on both sides of the vehicle transfer your 1 $\frac{1}{4}$ inch mark to the metal surface of the roof.
- When drilling your 1 $\frac{1}{4}$ inch mark, start small and gradually get larger bit involved until you reach our final size of $\frac{3}{4}$. Drill slowly and be careful not to drill too deep into the roof.

4. Plus nut installation

- Grab your hardware bag with one plus nut, one bolt, a hex, coupler, and a couple of washers in it.
- Take the bolt, slider a washer on, the hex coupler, another washer, and thread the plus nut on tight up against the washer.
- Apply a small amount of RTV Silicone around the hole on the truck.
- Put the plus nut into the hole until the lip is all the way against the truck.
- To compress the plus nut, hold the hex coupler with a ½ wrench and tighten the bolt head with a 7/16 wrench or socket. Do NOT use an impact to compress the plus nut. Tighten to 26 inch lbs. Now remove the bolt and the plus nut is securely installed!
- Repeat this process on the other side of the vehicle.

5. Set Pro rack on vehicle.

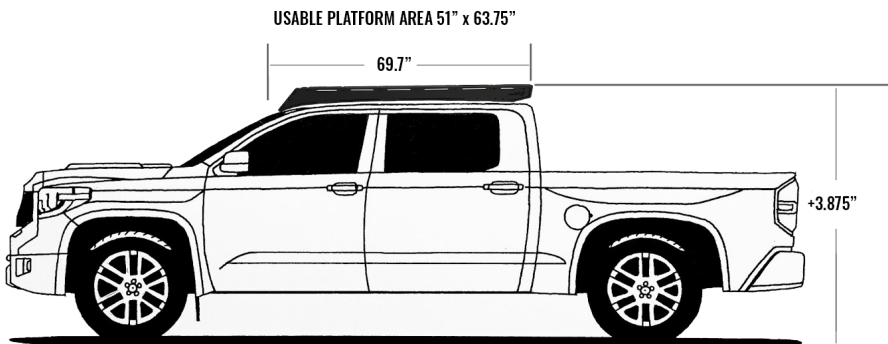
- Next step is to set the Pro rack on the vehicle and mark the remaining holes.
- Line up the rear holes and start a bolt in each side of the rear mounting brackets to ensure the rack is properly aligned.
- Now mark the remaining mounting holes to be drilled on the truck.
- Remove the rack and install the remaining plus nuts.
- You guessed it! The rack comes off and the drilling continues.
- Make sure to remove the foam around the holes in the same fashion as before.
- Drill using the same techniques, start small and work your way up to ¾ inch.
- Install the remaining plus nuts using RTV and torquing to 26 inch Lbs.

6. Install the Pro Rack to the truck

- Line up the Pro rack on the truck
- Lift one side at a time and place the rubber washer flat against the roof over the plus nut and a spacer on top of the rubber washer. The washer has to be installed on a clean metal surface or the rack will not properly seal!
- Fill the inside of the spacer with RTV silicone and start threading bolts in. The spacers are the same size so they can go over any hole.
- Once all the mounting bolts are started go ahead and tighten them all down.

7. Install wind deflector and remaining cross bars

- Lay the silver cross bar and wind deflector flat on the ground and slide 5 of the silver T nuts in each of the slots. You can use a screwdriver to slide them into place and align them with the wind deflector.
- Once the T nuts are aligned with the wind deflector start the shorter black bolts in the holes. Once all the bolts are started and the wind deflector is flush on each end of the silver cross bar, snug them up with a 5/32 allen.
- Apply the noise reducing trim to the wind deflector and trim off the excess with some side cutting pliers.
- Install the remaining cross bars, You may have to loosen the crossbars on either side of the cross bar you're trying to install in order for it to fit properly.
- That's all folks!



WEIGHT CAPACITY:

600lbs dynamic load capacity and 1,000lbs static load capacity

WARRANTY

PRINSU DESIGN STUDIO will warranty all PRINSU DESIGN STUDIO manufactured parts for a LIFETIME of use. This limited Lifetime Warranty is effective for as long as the original retail purchaser owns the product. This warranty terminates when the original retail purchaser sells or otherwise transfers the product to any other person. Each manufactured product must be installed following PRINSU DESIGN STUDIO'S recommended fitment and installation procedures. Any customization or modification to the original product design, functionality, or use, either by said customer or by PRINSU DESIGN STUDIO voids all warranty eligibility. It is the sole discretion of CBI Offroad to determine warranty eligibility. Subject to the limitations and exclusions described in this warranty, PRINSU DESIGN STUDIO will remedy defects in materials or workmanship by repairing or replacing, at its option, a defective product without charge for parts. In addition, PRINSU DESIGN STUDIO may elect, at its option, not to repair or replace a defective product but rather issue to a purchaser a refund equal to the purchase price paid for the product or a credit to be used toward the purchase of a new PRINSU DESIGN STUDIO product. No warranty is given for defects caused by normal wear and tear, cosmetic rust, scratches, accidents, unlawful vehicle operation, products used for racing or competition, or modification of, or any types of repair of, a PRINSU DESIGN STUDIO manufactured product. The PRINSU DESIGN STUDIO Warranty does not include the powder coated finish. No warranty is given for defects resulting from conditions beyond PRINSU DESIGN STUDIO'S control including, but not limited to, misuse, neglect, overloading, improperly maintained or failure to assemble, mount or use the product in accordance with PRINSU DESIGN STUDIO'S written instructions or guidelines included with the product or implied use made available to the purchaser.

DISCLAIMER OF LIABILITY REPAIR OR REPLACEMENT OF A DEFECTIVE PRODUCT OR THE ISSUANCE OF A REFUND OR CREDIT (AS DETERMINED BY PRINSU DESIGN STUDIO) IS A PURCHASER'S EXCLUSIVE REMEDY UNDER THIS WARRANTY.

DAMAGE TO A PURCHASER'S VEHICLE, CARGO AND/OR TO ANY OTHER PERSON OR PROPERTY IS EXCLUDED. THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. PRINSU DESIGN STUDIO'S SOLE LIABILITY TO ANY PURCHASER IS LIMITED TO THE REMEDY SET FORTH ABOVE. IN NO EVENT WILL PRINSU DESIGN STUDIO BE LIABLE FOR ANY LOST PROFITS, LOST SALES, OR FOR ANY CONSEQUENTIAL, DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES OR FOR ANY OTHER DAMAGES OF ANY KIND OR NATURE



792 E Iona Rd.
Idaho Falls, ID 83274
cbioffroadfab.com
208.528.0664