

4th Gen Chevy Silverado 1500

# PRINSU ROOF RACK



## **Applications** installation instructions

These installation instructions apply to the following Prinsu products

– **Chevy Silverado 1500** Prinsu Roof Rack | 2019-2023

### **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

<b>4th Gen Chevy Silverado 1500 Roof Rack</b>	
<b>Chevy Silverado Roof Rack Mounting Hardware</b>	
DESCRIPTION	QTY
0.319"ID-3/4"OD x 7/8" Long Aluminum Spacer	12
1/4"-20 0.020" - 0.280" Grip Range Yellow Zinc Flat 1"Length Steel Sherex™ CPB Rivet Nut	12
1/4" x 1-1/4" x 0.125" Steel Fender Washer	14
1/4"-20 x 1-3/4" Steel Hex Cap Screw Zinc	14
<b>Crossbar Hardware</b> (for 7- 54" Cross Bars, 1- 44" Clear Extrusion, 1- Antenna Bracket )	
DESCRIPTION	QTY
1/4"-20 x 1" Steel 6-Lobe Pan Machine Screw Black Zinc	36
Vibra-Tite 111 Low Strength Threadlocker Pack of 3 Tubes	1
1/4" x .557" - .567" x .044" - .052" Steel Flat Washer	36
1/4"-20 Steel Nylon Insert Black Zinc	4

## Tools Required/Material

- T-30 Torque driver
- 7/16" Wrench/socket
- Phillips Head Screwdriver
- Side Cutting Pliers
- Cutting Tool (sawzall, cutoff wheel)
- Drill Bit set
- Drill
- 1/2" Wrench
- RTV Black Silicone
- Double side adhesive tape if desired

### Note for Dealers and Installers:

It is your responsibility to ensure instructions are given to the end user or client.

## **IMPORTANT!**

If your Prinsu product comes as unpainted, bare steel or aluminum. You will want to either powder coat or paint prior to final installation, however it is very important to PRE-INSTALL the unpainted product first, following these instructions, BEFORE painting or powder coating any of the components! This will ensure that all parts are correct and any incidental trimming or drilling will have been done prior to coating. Also, it will give you a practice run to familiarize yourself with the process, to lessen the likelihood of damaging the finish during final installation.

Prinsu is NOT RESPONSIBLE for paint or powder coating costs, damage to paint or powder coating, or costs associated with inadvertently painting or powder coating components that are defective or were shipped or assembled in error. It is the customer's responsibility to pre-install and verify that all parts are correct prior to paint or powder coat

## SEQUENCE OF STEPS

### Unbox Prinsu Rack and Layout parts

Verify you have two side rails, one wind deflector, 7 black cross bars, 1 gray cross bar, 1 strip of noise reducing trim, and a bag of hardware. Most importantly STICKERS!

#### **Prep all Hardware**

- Apply a black washer to all T-30 Torque drive bolts
- Apply a black washer to all Phillips head bolts
- Apply a zinc washer to all the zinc bolts
- Apply a small amount of Vibra-tite on the end of all the bolts.

### Partially Assemble Prinsu Rack

- Lay out the side rails with the mounting feet facing in and opposing each other.
- Install three cross bars one towards the front, one in the middle, and one at the end. This doesn't have to be exact. All we are doing right now is using the three cross bars to hold the rack square while we mark the holes to be drilled on the truck. The cross bars will install in the smaller slots in the side rails. Make sure to have the drop in points facing up and use the T-30 Torque drive bolts to secure them in place. Always start hardware by hand and be careful not to overtighten.

### Time to Drill

- Remove the weather stripping from both sides on top of the roof. You will need a flat head screwdriver prying upward. There are retaining clips along the weatherstripping holding it in place, once you locate them you will want to pry close to the clip to pop it out, be careful not to break these clips.
- Measure back from the windshield 8 3/16" and make a mark in the cutter of the roof as shown in the picture.

### **Pro Tips For Drilling!**

- Use sharp drill bits
- Start small 1/16" or 1/8" and work your way up gradually to a 3/8" final size
- Keep the drill on slow speed to prevent burning up drill bits and the roof metal itself
- Use cutting lubricant
- Only drill about 1" deep, don't force the drill bit to deep and risk coming through the headliner or another component of the vehicle
- Use a small magnet to retrieve metal shavings out of the hole once complete.



### Plus nut install

- Use the longer 1/4" hex head bolt out of your hardware kit, slide a washer onto it, slide the hex coupler onto the bolt, now slide another washer onto the bolt and thread on a plus nut. Make sure that the plus nut is tightened snugly against the washer.
- Apply some black RTV silicone to the lip of the plus nut and insert it into the hole.
- Hold the Hex coupler with a 1/2" wrench and tighten the hex head with a 7/16 wrench or socket. Make sure that the plus nut is flat against the roof.
- Tighten to 20 inch pounds, and loosen the hex head bolt. The plus nut is now compressed to the roof.
- Repeat this process on the other side.

### Mark and drill the rest of the holes

- Place the partially assembled rack onto the truck, start a bolt in the front holes on both sides of the rack.
- Ensure the rack is straight on the vehicle and mark the remaining holes.
- Remove the rack, drill the holes, and install the remaining plus nuts.

### Sealing the Plus nuts

- Apply a quarter sized hershey kiss shaped amount of RTV silicone over the plus nut.
- Now press the spacers down over the hershey kisses and place the rack onto the spacers.

### Finish Installation

- Start all the mounting bolts
- Ensure rack is straight on the vehicle and tighten down mounting bolts with 7/16 wrench or socket
- Insert the T-nuts into the slots in the silver cross bar
- Line up T nuts with the holes in the wind deflector and start the phillips head bolts with a washer on.
- Once all the bolts have been started tighten them down
- Place the noise reducing trim on the bottom of the wind deflector and trim off the excess.
- Install remaining cross bars!



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