

## PREPARING YOUR VEHICLE FOR INSTALLATION

Please read all instructions prior to beginning installation. Various steps may relate directly to previous or future parts of the installation process. PrInSu Design Studio is not liable for damages caused to your vehicle during the installation process. If you do not feel comfortable with the processes outlined in this manual please seek professional installation assistance. Pictures may vary slightly by model but the steps are the same.



Use a knife, flathead screwdriver or other flat rigid object to pry the covers off the stock roof rack. Place a rag or paper towel over the paint so you can pry against the vehicle without scratching the paint.



The covers are held by 3-4 clips along the edge so pry in multiple locations until the cover pops off.



Remove the hex bolts holding the factory roof rack to the vehicle. Once all 8 bolts are removed (4 front, 4 back) gently lift the factory rack and remove it.



With the bare roof exposed you prepare the mounting holes for the installation of the new PRINSU rack.



Clean out the areas around the mounting holes and make sure there is not debris in the area. You can also clean the area where the factory rack contacted the roof.



Add a glob of silicone or RTV sealant right over the top of the holes and then place the spacers into the silicone. The vehicle is now ready for you to install the rack.

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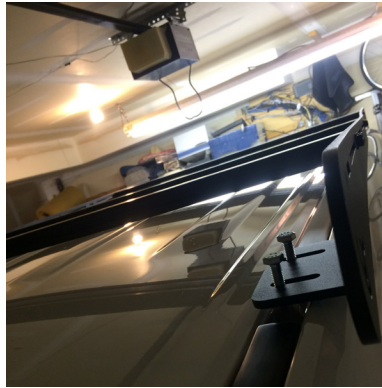
Be smart, use good judgement, don't overload your vehicle to the point of inferior handling and maneuverability!

## MARKING AND DRILLING THE FRONT MOUNTING POINT

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To mark the front mounting hole you will first need to semi assemble the rack. Do this by bolting in three crossbars as shown on page 3 in the locations shown above. Once this step is complete. Place the rack on the vehicle's roof resting it on the spacers.



With the rack in place on the roof resting on the spacers loosely thread the 4 rear bolts and 4 middle bolts into place and center the rack to the best of your ability.



Using a marker. Mark the location of the slot using a horizontal line across the roof channel where the front mounting point will be.



After marking the hole with a center punch, use a step drill bit to begin drilling (You will drill till the 3/8" level pierces the top of the roof). MEASURE TWICE, DRILL ONCE! You need to make sure you drill the hole far enough from the sides of the channel for the spacer to fit.



Once you have finished drilling through the roof to the 3/8" with the step bit, finish the hole with a standard 3/8" bit to make sure the hole is even all the way through. Use some touch up paint to cover the exposed metal as much as possible. Repeat this step on the other side of the vehicle.



Once you have the holes drilled and prepared. Install the plusnuts as shown in our intro to plusnuts insutructions. Once the plusnuts are installed. Place the rack on the roof to check fitment.

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## ASSEMBLING THE RACK

We recommend assembling the rack completely on a level surface prior to installation on the vehicle. This will help certify that all parts are properly aligned and even. Assembling the rack on the vehicle or the roof may cause unsatisfactory results which may cause wind noise or rack failure.



Layout all the parts including accessories you may be installing such as a lightbar, or other hardware to attach accessories



Start by connecting the crossbars to the side rails. Install the front, rear, and middle crossbars first to ensure that the rack is square. Tighten all crossbars loosely as shown in the picture and then go around and tighten them in even increments.

Once the crossbars are all installed and tight, check the rack to make sure it is square. You can do this by comparing diagonal measurements from corner to corner. Once the rack is tight and square move on to the next steps and assemble the wind deflector.

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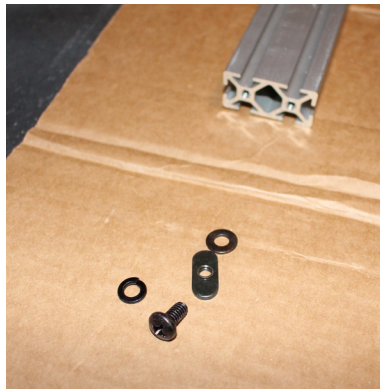
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## ASSEMBLING THE WIND DEFLECTOR

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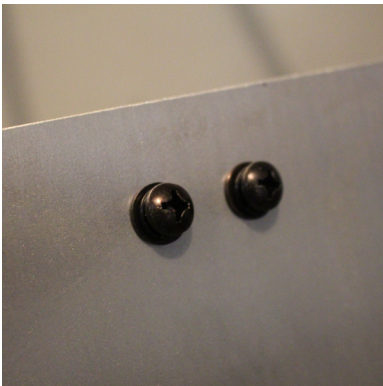
Locate the correct hardware bag containing (10) nuts, lock washers, flat washers, and phillips machine screws.



Locate the clear anodized crossmember that will be used as the support for your wind deflector. (Some models may have a black anodized bar)



Install the hardware from step 1 through the wind deflector as shown in steps 3 and 4. The screws should just barely thread into the nuts.



Complete step 3 for all ten mounting holes on the the wind deflector. The correct order is screw, lock washer, flat washer, deflector, nut. The screw should be loosely threaded into the nut.



Lay the deflector on a flat surface so that the nuts are facing up. From one end start sliding the extrusion bar so that the nuts feed into the channel. The fit is tight but if everything is lined up properly it will slide right on



Once all nuts have been fed into the channel and the extrusion bar and deflector are flush on both ends, turn the assembly over and tighten the screws till the lock washers are compressed. The defelctor can now be bolted to the rack.

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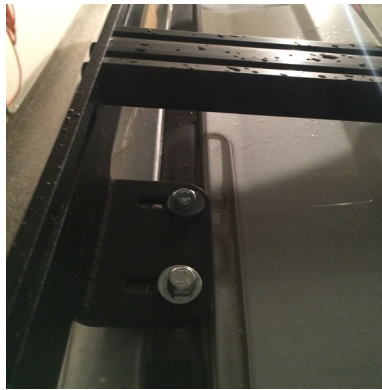
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## INSTALLING THE RACK

Please see the help of another individual when lifting the rack onto your vehicle. Attempting to place the rack on your vehicle without additional help may result in personal injury or damage to your vehicle or rack. PrInSu Design Studio is not liable for any personal or property damage resulting from improper installation.



Place the rack on the spacers that were placed in silicone during the vehicle prep. It is best to have someone help lift the rack onto the truck.



Secure the rack to the truck by using the 8M x 1.25 Hex bolts, lock washers and flat washers. Make sure to attach the rack loosely at all points before tightening any.



Make sure the rack is centered and loosely secured at all mounting points. Once the rack is in the desired location. Tighten each bolt till the lock washer is fully compressed and spacer is firmly seated against the roof.



In some cases due to minor changes in the roof lines extra fender washers may be needed to level the rack at the mounting points.



The rearmost crossbar will have to be in the furthest back hole to clear the shark fin antenna.



Weather strips in the front can be cut with tin snips to the correct length to fit around the spacers for the front mounting points.

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## ACCESSORIES AND ADD-ONS

The universal nature of the TSLOTS aluminum extrusion crossbars allows for the attachment of various accessories. Because we cannot control how or what accessories are installed we do not take any responsibility for their performance or use. Please use good judgement when outfitting your roof rack. Below are shown some basic uses we have found suitable for the PrInSu Design Studio Roof Racks.



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