CALI RAISED

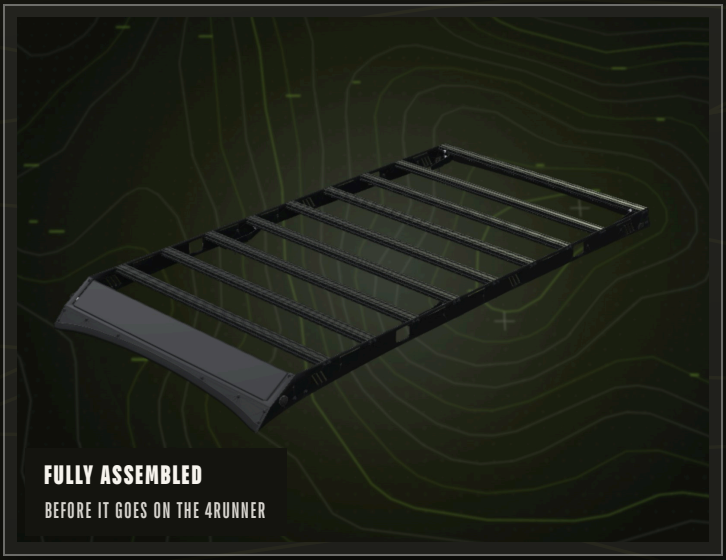
PART CR2836

REV A · 2026-11-12

INSTALLATION GUIDE

2010–2024 4RUNNER PREMIUM ROOF RACK

2010–2024 TOYOTA 4RUNNER · 5TH GEN · 8 STEPS



FULLY ASSEMBLED
BEFORE IT GOES ON THE 4RUNNER

A low-profile, bolt-on roof rack for the 2010–2024 4Runner, with an adjustable wind visor up front.

- Bolts to the factory roof rack mounting points with the factory bolts. No drilling.
- 500 lb dynamic · 1,000 lb static.
- Four mounts on the T-slot rails, eight roof mounting points.
- Wind visor tilts to cut wind noise and hide a light bar.

PLAN FOR

Two people to lift the rack onto the 4Runner. You build the whole rack on the ground first (steps 1–6).

MOUNTS	TOOLS	DRILLING
8 FACTORY POINTS	5/32" ALLEN · 7/16" · 9/16" · 12 MM	NONE

INSTALL VIDEO & PRODUCT PAGE

Scan for the install video, specs and help.

FABRICATED IN-HOUSE IN FORT WORTH, TEXAS

CALIRAISEDLED.COM

HARDWARE + TOOLS

BOLTS

4	**1/4" x 1/2" button-head bolts**	Rear valance
10	**1/4" x 5/8" button-head bolts**	Front valance, L-brackets
8	**1/4" x 3/4" button-head bolts**	Front mounts, side panels, L-brackets
36	**1/4" x 1" button-head bolts**	Rail ends
6	**1/4" x 3/4" carriage bolts**	Middle + rear mounts
2	**3/8" x 1-1/4" hex bolts**	Wind visor pivots

SPACERS + MORE

8	**3/8" ID x 3/4" aluminum spacers**	Roof mounting points
2	**1/4" x 29/32" aluminum spacers**	Visor knob pins
2	**Knobs**	Wind visor angle
4	**Threaded bump stops**	Under the front mounts
1	**Weather strip**	Front valance edge

NUTS + WASHERS

68	**1/4" black washers**	With every 1/4" bolt
16	**1/4" locknuts**	Mounts, front valance, bump stops, L-brackets
4	**1/4" T-slot nuts**	Rear valance
2	**3/8" washers**	Visor pivots
4	**3/8" bronze oil bearing washers**	Visor pivots
2	**3/8" locknuts**	Visor pivots

TOOLS YOU SUPPLY

5/32" Allen key	1/4" button-head bolts
7/16" wrench	1/4" locknuts
9/16" wrench + socket	Visor pivot bolts
12 mm socket	Factory roof rack bolts (reused)
Plastic pry tool	Factory roof rack covers
Tape measure	Center the rack on the roof
Silicone sealant	Roof mounting points. Not included
Cutters	Trim the weather strip

READ THIS FIRST

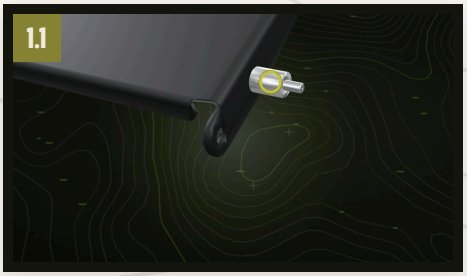
Build the whole rack on the ground, then put it on the 4Runner with two people. Snug the hardware as you go. You tighten the frame in step 6, and the four rail mounts and the roof bolts last, in step 8, after the rack is centered.

Keep the factory roof rack bolts. The 8 bolts that hold the factory roof rack are reused to bolt the rack down. There are no roof bolts in the kit.

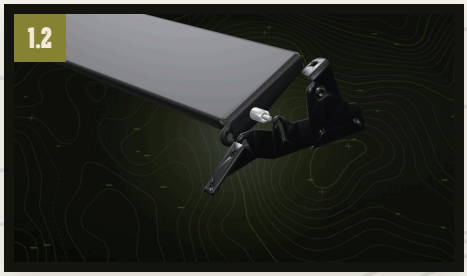
DRIVER SIDE, THEN PASSENGER · 9/16"

1 WIND VISOR ON THE FRONT MOUNTS

Pivot bolts only get snug. Don't fully tighten them. The visor has to move.



Aluminum spacer (1/4" x 29/32") onto the knob pin.



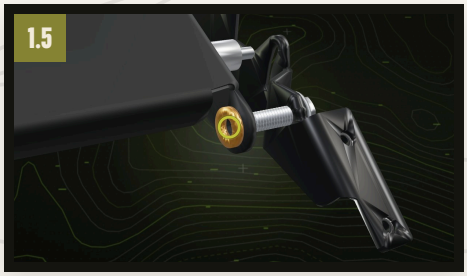
Front mount over the pin, the pin through its slot.



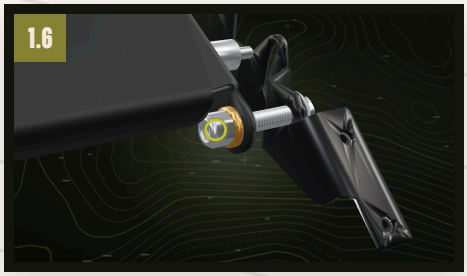
3/8" hex bolt + 3/8" washer start it through the mount from outside.



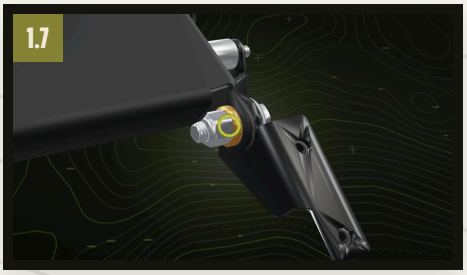
Bronze oil bearing washer in the gap between the mount and the visor.



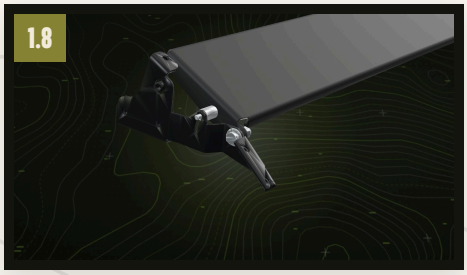
2nd bronze oil bearing washer against the inside of the visor.



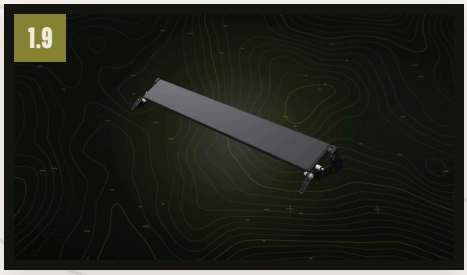
3/8" locknut hold it on the washer.



Bolt through the visor and washer into the locknut. 9/16" wrench, snug.



Passenger side same stack, same order.

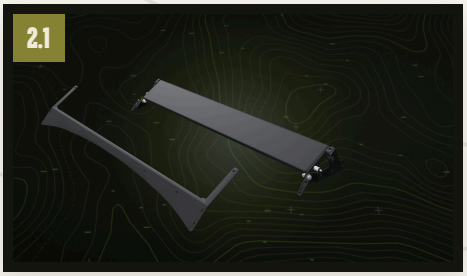


Check: both pivots snug, the visor still moves.

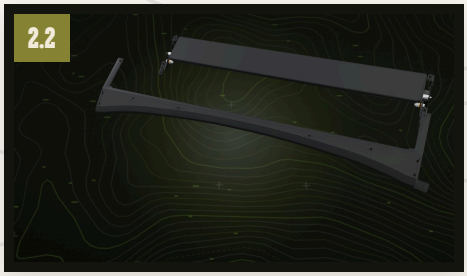
2 FRONT VALANCE

WEATHER STRIP · VALANCE SUPPORT · BUMP STOPS · 5/32" · 7/16"

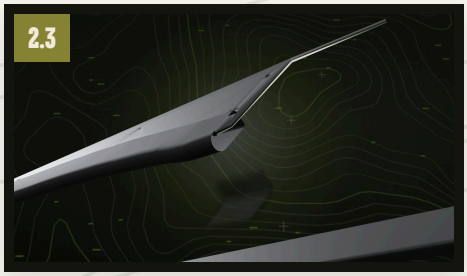
Tighten all the black hardware on the front assembly, then set it aside.



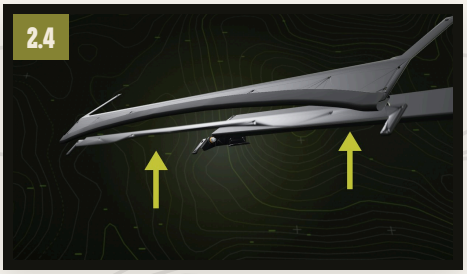
Front lower valance on the bench.



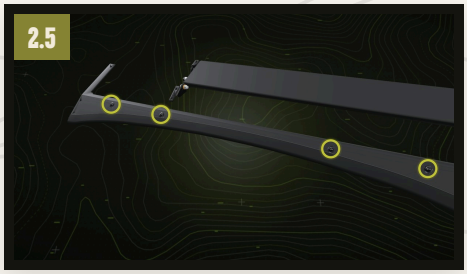
Weather strip pushes onto the bottom edge, rubber cushion down.



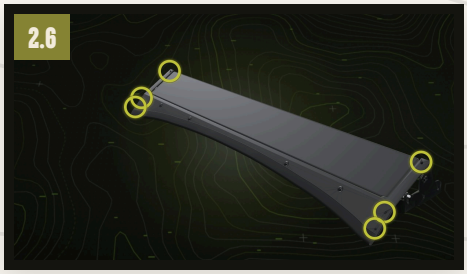
Trim the extra flush with the edge.



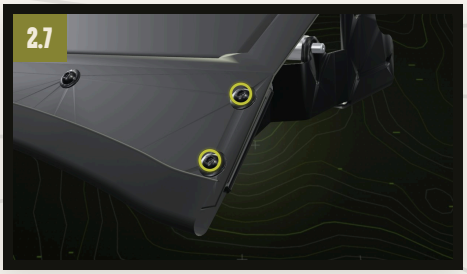
Valance support comes up behind the valance, against its back side, flange down.



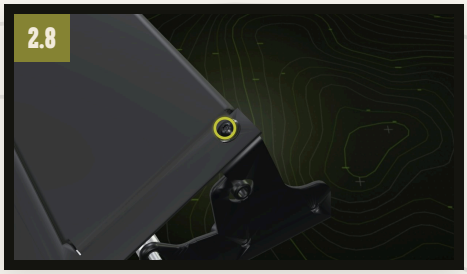
4 x 5/8" button-heads + washers through the valance into the support's PEM nuts.



Valance between the front mounts, holes lined up.



Driver end: 2 x 5/8" button-heads + washers into the mount.



3/4" button-head on top: washer above, washer + locknut below.



Passenger end: repeat 2.7–2.8 (2 end bolts, top bolt).



2 bump stops up through the driver front mount. Washer + locknut on top.

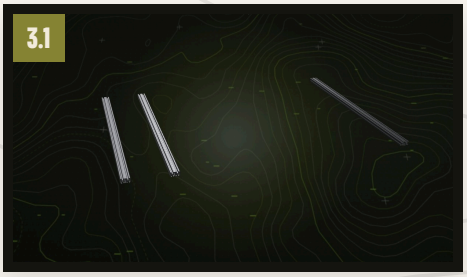


Passenger mount: 2 more bump stops, washer + locknut on top.

3 MOUNTS ON THE T-SLOT RAILS

CROSSBARS 3, 4 + 9 · 4 MOUNTS · 6 CARRIAGE BOLTS · 7/16"

Don't fully tighten the mounts. They slide to line up with the roof and get tightened in step 8.



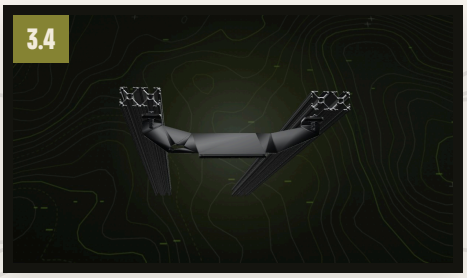
Crossbars 3, 4 and 9 get the mounts, counting from the front.



1/4" x 3/4" carriage bolts: 1 in crossbar 3 and 1 in crossbar 4, bottom slot.



Mount 1 of 4: middle mount over both bolts. It joins crossbars 3 and 4.



Open side of the C faces out, toward the side panel.



1/4" washer + locknut on each bolt. 7/16" wrench.



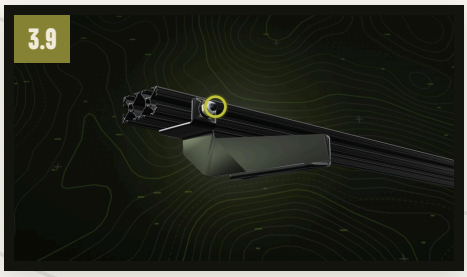
Snug only. The mounts slide to line up with the roof.



Mount 2 of 4: rear mount on crossbar 9. 1 carriage bolt in the front slot, washer + locknut.



Mount 3 of 4, passenger middle: repeat 3.2–3.6.



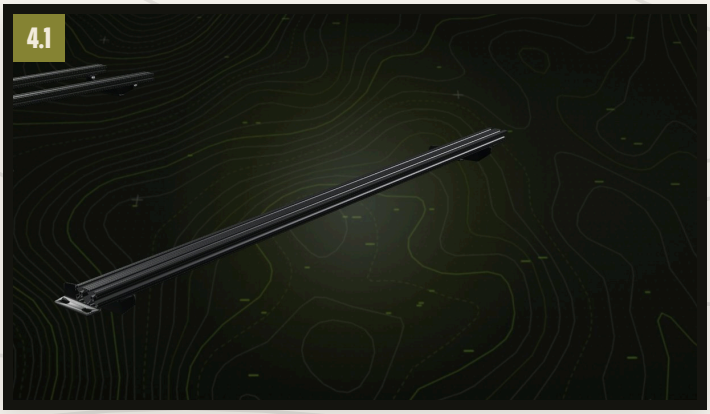
Mount 4 of 4, passenger rear: 1 carriage bolt, washer + locknut, same as 3.7.



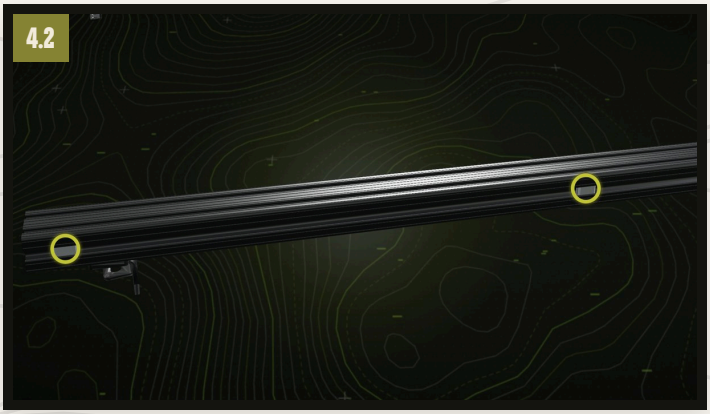
All 4 mounts on. Don't fully tighten.

CROSSBAR 9 · 4 T-NUTS · 5/32"

4 REAR VALANCE



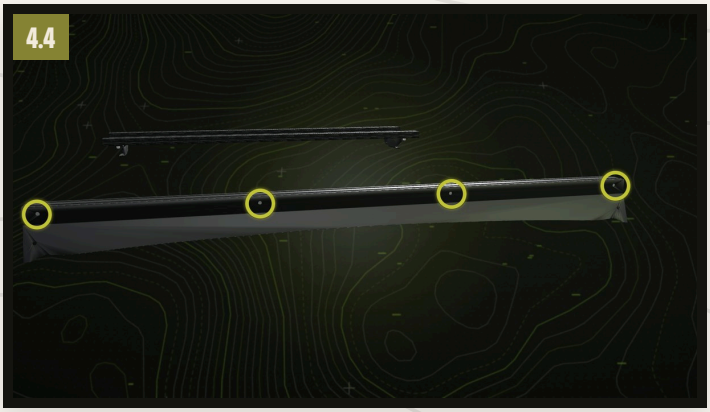
Crossbar 9 again. The rear valance goes on its rear track.



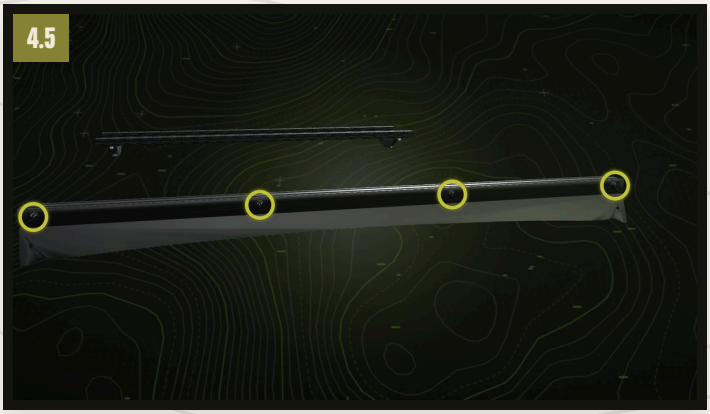
2 T-nuts into the rear track from the driver end.



2 more T-nuts from the passenger end. 4 total.



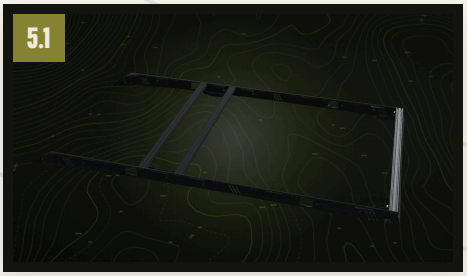
Rear valance over the T-nuts.



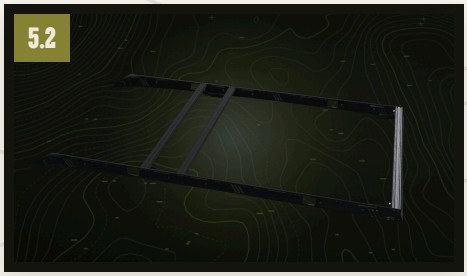
4 x 1/2" button-heads + washers, one into each T-nut.

BOTH SIDES · 36 RAIL-END BOLTS · 5/32"

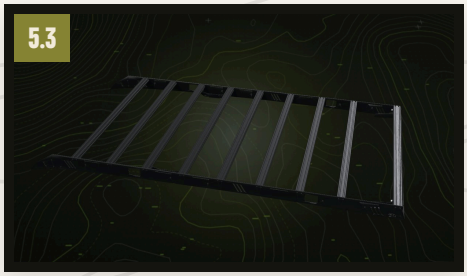
5 RAILS + SIDE PANELS



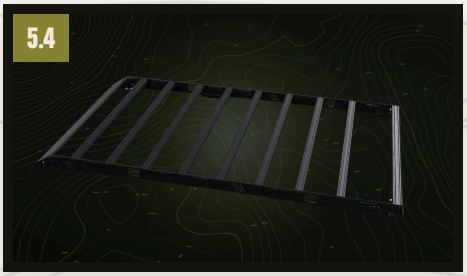
Side panels.



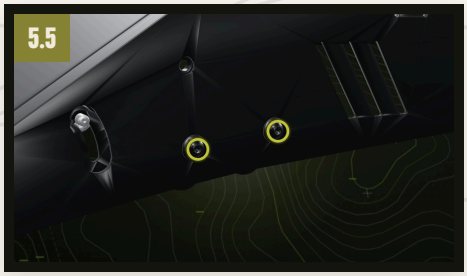
Mount crossbars go 3rd, 4th and 9th: middle mounts on 3 + 4, rear mounts on 9.



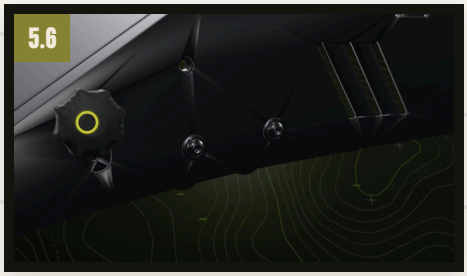
Plain rails fill the other positions.



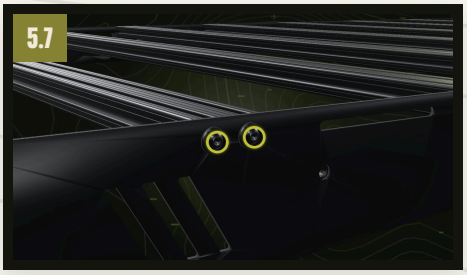
Front assembly between the side panels.



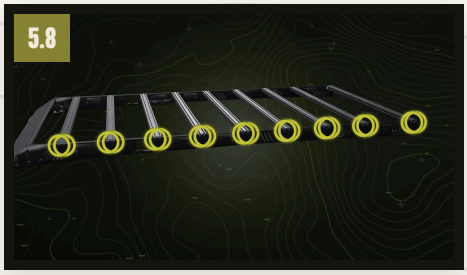
2 x 3/4" button-heads + washers per side, into the front mount.



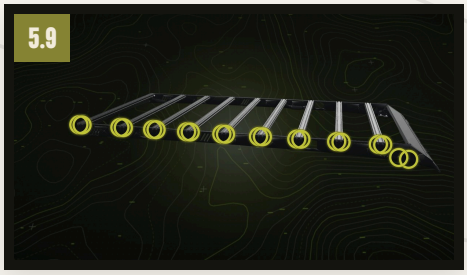
Wind visor knob onto the pin. Snug.



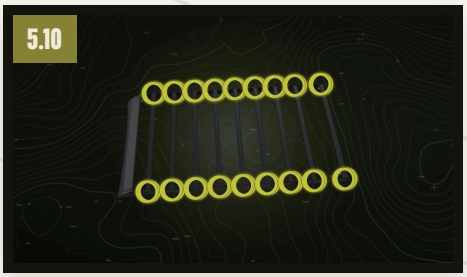
1/4" x 1" button-head + washer, 2 per rail end.



Driver side: 18 rail-end bolts, 2 at each rail end.



Passenger side: repeat 5.5–5.8 (2 front bolts, knob, 18 rail-end bolts).



All 36 rail-end bolts in, 18 per side.

6

BOTH REAR CORNERS · 5/32" · 7/16"

L-BRACKETS, TIGHTEN THE FRAME

Tighten the frame now. Leave the 4 rail mounts a little loose until the rack is centered on the 4Runner.



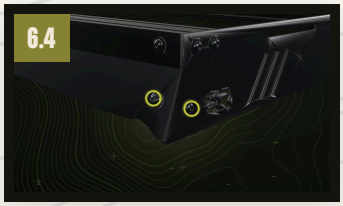
L-bracket in the rear corner.



3/4" button-head + washers + locknut through the side panel.



5/8" button-head + washer through the rear valance into the PEM nut.

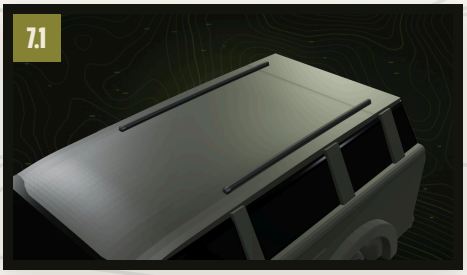


Passenger corner: repeat 6.1–6.3.

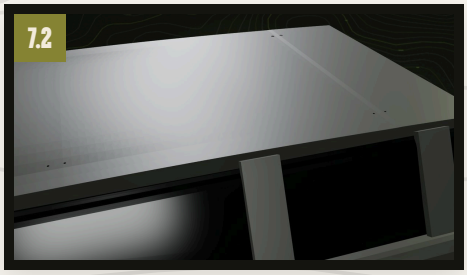
7

12 MM SOCKET · 8 MOUNTING POINTS · 8 SPACERS

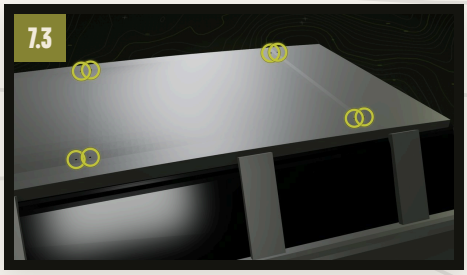
PREP THE ROOF



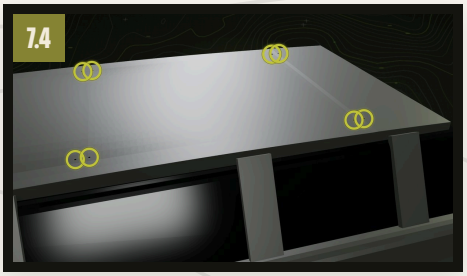
Factory roof rack comes off, both sides.



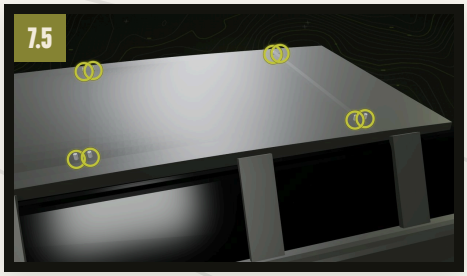
Pop the 4 covers, undo the 8 bolts using the 12 mm socket. Keep the bolts.



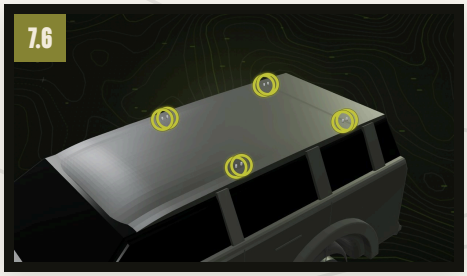
8 roof mounting points, 2 at each corner.



Ring of silicone around every mounting point before the spacers go on. Not included.



Aluminum spacer (3/8" ID x 3/4") on every mounting point, a dab of silicone inside.

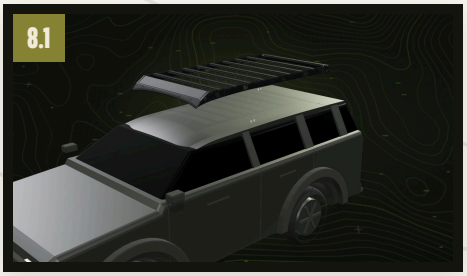


All 8 spacers on.

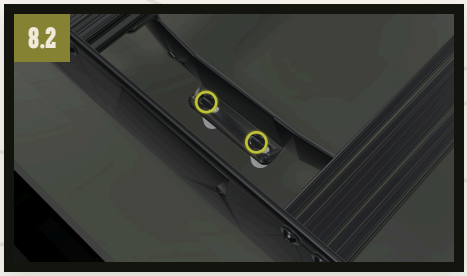
8 RACK ON, SECURE + TIGHTEN

TWO PEOPLE · 12 MM · 7/16"

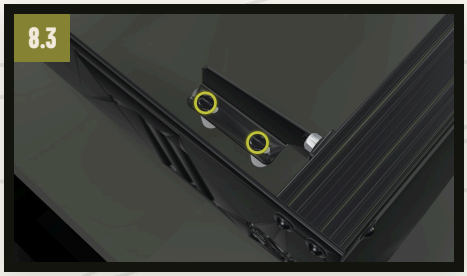
Centered? Tighten the carriage bolts on the 4 rail mounts, then the 8 factory bolts.



Two people: lift it over the front and set it straight down onto the spacers.



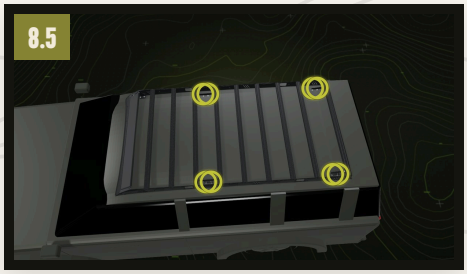
Factory 12 mm bolts: 2 in the driver middle mount.



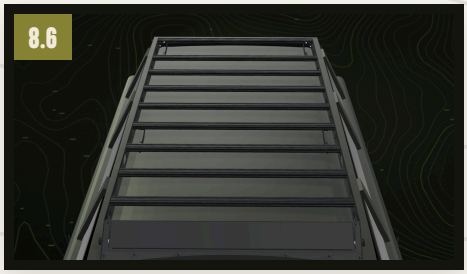
Driver rear mount: 2 factory bolts.



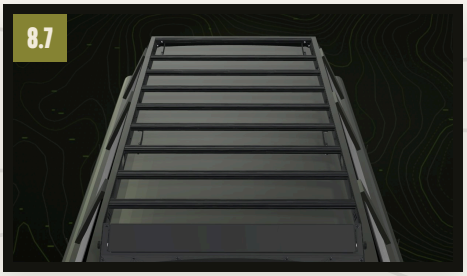
Passenger side: repeat 8.2–8.3 (2 middle, 2 rear).



All 8 factory bolts in, 4 per side. Still loose.

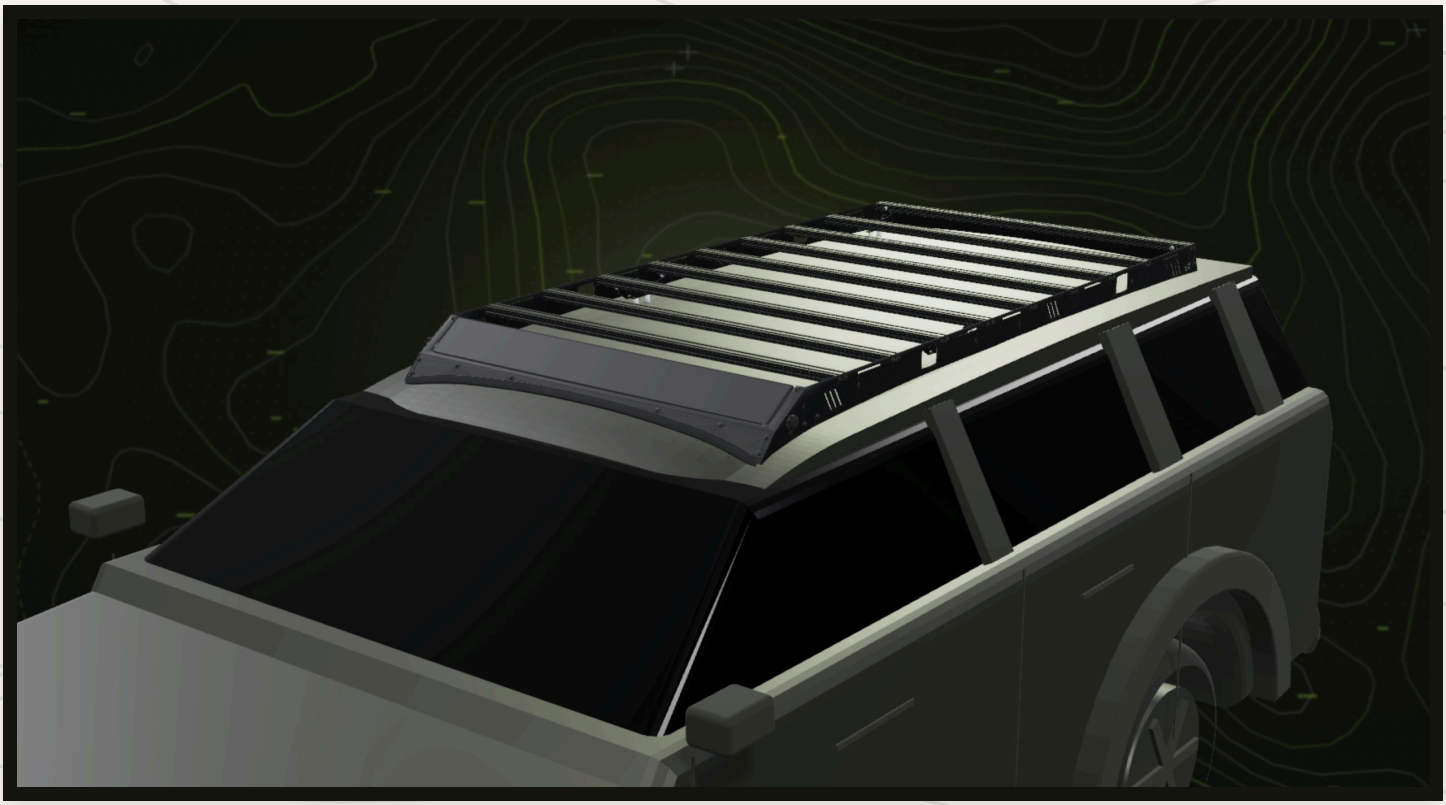


Center it: same gap to the roof line on both sides.



Tighten the carriage bolts on the 4 rail mounts, then the 8 factory bolts.

YOU'RE DONE



CHECK YOUR WORK

- Both visor pivots snug. The visor tilts with the knobs.
- Front valance hardware tight, weather strip on the edge, 4 bump stops on.
- 4 mounts on crossbars 3, 4 and 9, tightened after centering.
- Rear valance: 4 bolts into 4 T-nuts.
- 36 rail-end bolts, 18 per side.
- Both L-brackets bolted and tight.
- 8 spacers under 8 factory bolts, 4 per side.
- Same gap to the roof line on both sides.

SUPPORT

support@caliraisedled.com
5318 David Strickland Rd
Fort Worth, TX 76119
Backed by Cali Raised LED's warranty.

FABRICATED IN-HOUSE IN FORT WORTH, TEXAS

© 2026 CALI RAISED LED · CR2836 · REV A · PAGE 10 OF 10

caliraisedled.com/products/premium-roof-rack-for-2010-2024-toyota-4runner