

OCCAM

4X4
ACCESSORIES

INSTALLATION INSTRUCTIONS



SKU: RR2-LC100

Vehicle Compatibility: Toyota Land Cruiser

100 Series and 105 Series, 1998 - 2007

Installation time: approximately 1.5 hours

BEFORE YOU START

IMPORTANT INFORMATION

- Always wear safety glasses and hearing protection.
- Keep the work area clean at all times.
- Check that all components listed in the parts table are present.
- Thoroughly read all instructions.
- Do not modify this product or its fasteners in any way.
- These instructions are accurate as of the revision date and do not take into account any changes made by the vehicle manufacturer to vehicle design after the revision date, or other accessories that are fitted to the vehicle.
- It is the responsibility of the installer to confirm correct operation and clearance of all components.
- Remove all burrs and swarf from drilled holes, then coat the holes with a suitable rust-preventative paint.
- Tighten all hardware to the torque specifications listed in these instructions.
- After installation, give these instructions to the customer.

PRODUCT CARE

- To maintain the appearance of the product, wash and dry regularly using a quality car wash.
- Periodically check all product fixings for correct torque.

Torque Settings

BOLT SIZE (mm)	TORQUE (Nm)	TORQUE (ft-lb)
M5	7	5
M6	11.8	8.7
M8	28.8	21.3
M10	57.5	42.3
M12	99.8	73.7

Tools Required

12 mm socket	10 mm socket	13 mm open-end spanner	10 mm spanner
4 mm Allen key or hex bit	5 mm Allen key or hex bit	Trim tool	Silicone/PU sealant

To avoid injury to the installer or damage to the vehicle and product, the help of second person is required to lift the roof rack assembly onto the vehicle. Ensure that you have assistance on hand before beginning the installation.

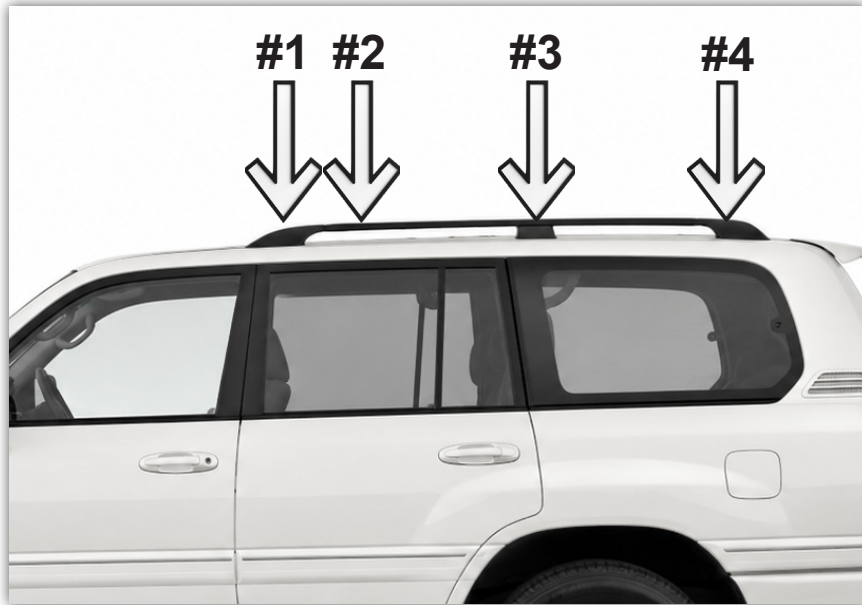
Item	Description	QTY
1	Platform	1
2	LH roof rail	1
3	RH roof rail	1
4	Front mounting bracket (marked with F)	2
5	LH middle mounting bracket (marked with M, BJ185)	1
6	RH middle mounting bracket (marked with M, BJ186)	1
7	Rear mounting bracket (marked with R)	2
8	Rubber gasket	14
9	Wind deflector	1
10	Double T-bolt	6
11	T-bolt	3
12	M8 x 30 button-head bolt	14
13	M8 x 20 button-head bolt	6
14	M6 x 20 button-head bolt	2
15	M8 spring washer	14
16	M8 flat washer	26
17	M6 flat washer	4
18	M8 flanged nyloc nut	15
19	M8 nyloc nut	6
20	M6 nyloc nut	2
21	Plastic cap	2

NOTE: The LC100 was sold with 2 roof configurations, this product will suit both options.

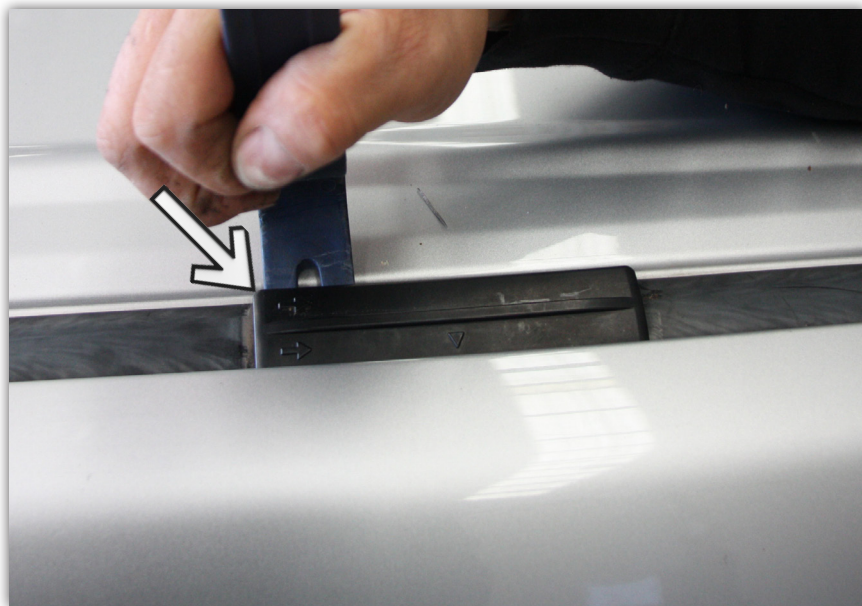
For vehicles **without** factory roof rails, complete Steps 1-2 on page 4, then skip to Step 15 on page 9.

For vehicles **with** factory roof rails, skip to Step 3 on page 5.

When removing the factory mounting hardware on vehicles with either configuration, it is important to avoid using power tools and to loosen the bolts evenly before removing them. The retaining plates on the inside of the roof can become dislodged and fall, requiring the roof lining to be lowered to access and reinstall them.

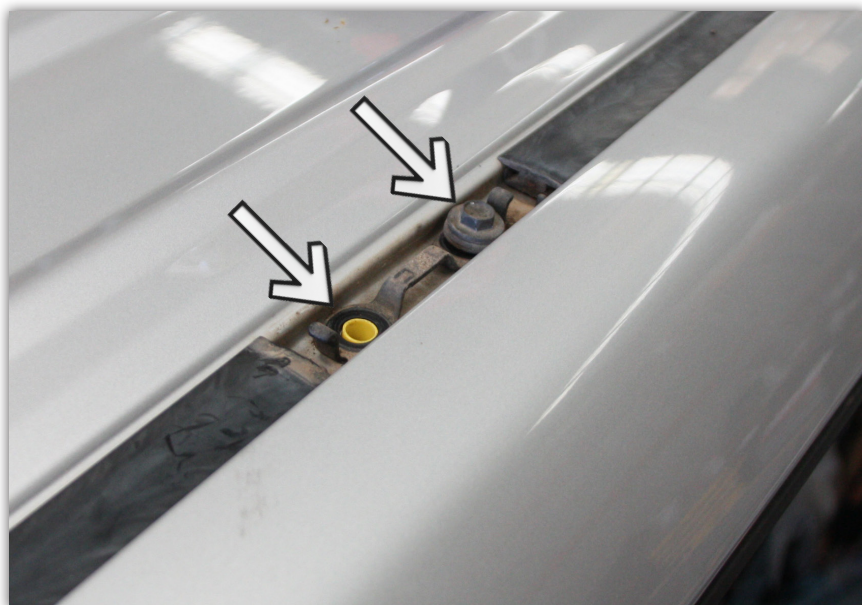


Roof-rack mounting-point locations are referenced throughout this guide.



For vehicles **without** factory roof rails.

1. Remove 3 caps from roof-channel trims. Mounting points #2, #3, #4 only.



2. Use a 12 mm socket to remove 6 bolts and 3 factory brackets from mounting points #2, #3, and #4 only.

NOTE: Loosen both bolts before removing them to prevent internal retaining plates from dislodging.



For vehicles **with** factory roof rails.

3. Remove the front roof-rail trim cover. Insert a trim tool under the bottom edge of the cover to release the clips. Lift the front end first and slide the cover toward the front of the vehicle to remove it. Mounting point #1.

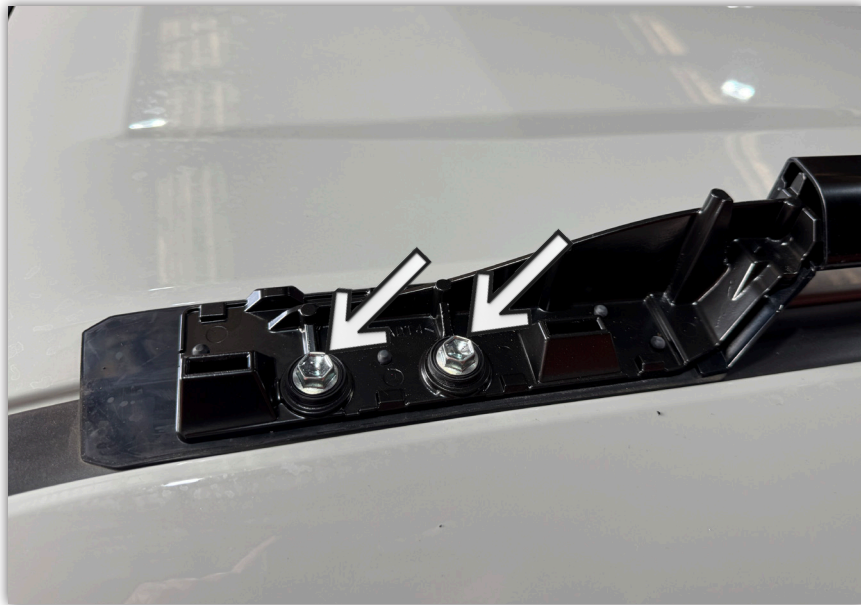


4. Use a 12 mm socket to remove the 2 bolts. Mounting point #1.

NOTE: Loosen both bolts before removing them to prevent internal retaining plates from dislodging.



5. Remove the rear roof-rail trim cover. Insert a trim tool under the bottom edge of the cover to release the clips. Lift the rear end first and slide the cover toward the rear of the vehicle to remove it. Mounting point #4.

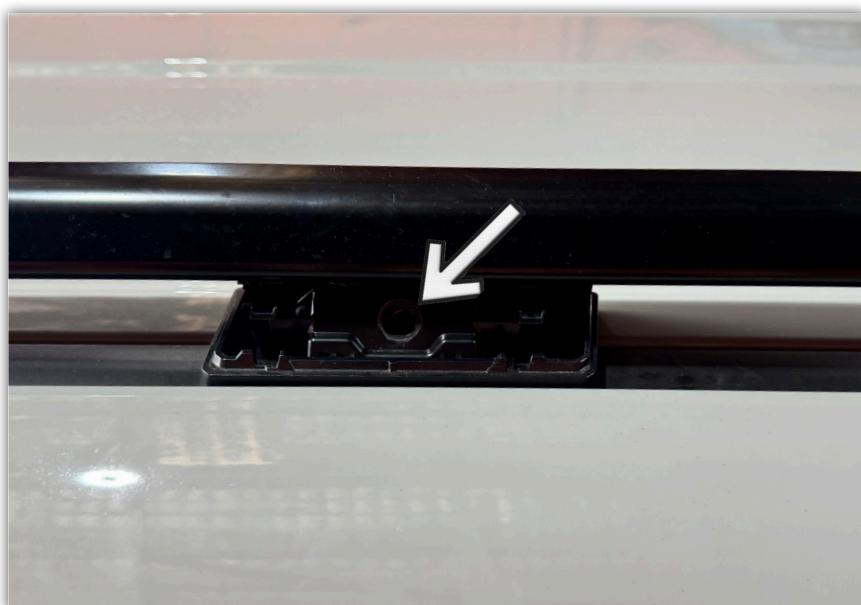


6. Use a 12 mm socket to remove the 2 bolts. Mounting point #4.

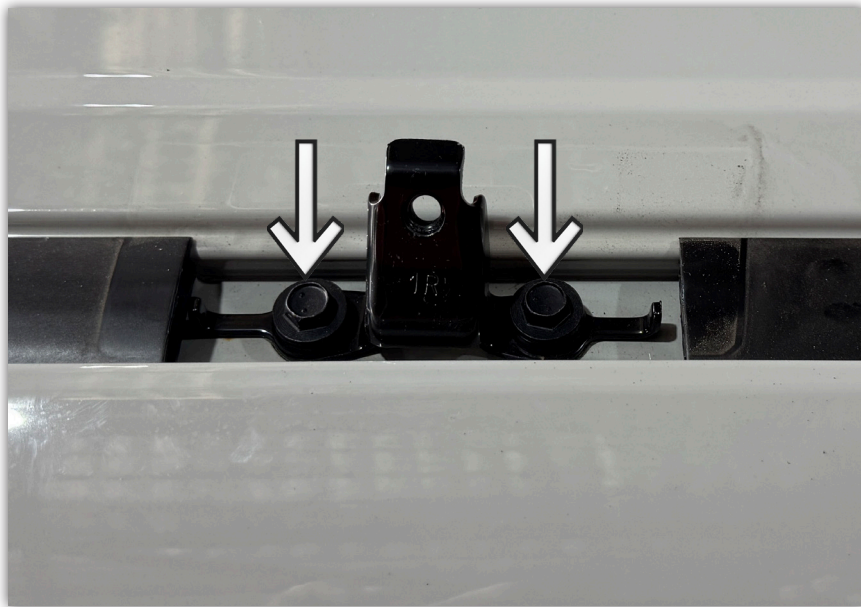
NOTE: Loosen both bolts before removing them to prevent internal retaining plates from dislodging.



7. Remove the middle roof-rail cover. Insert a trim tool under the inner edge on both sides to release the clips, then slide the cover outward to remove it. Mounting point #3.

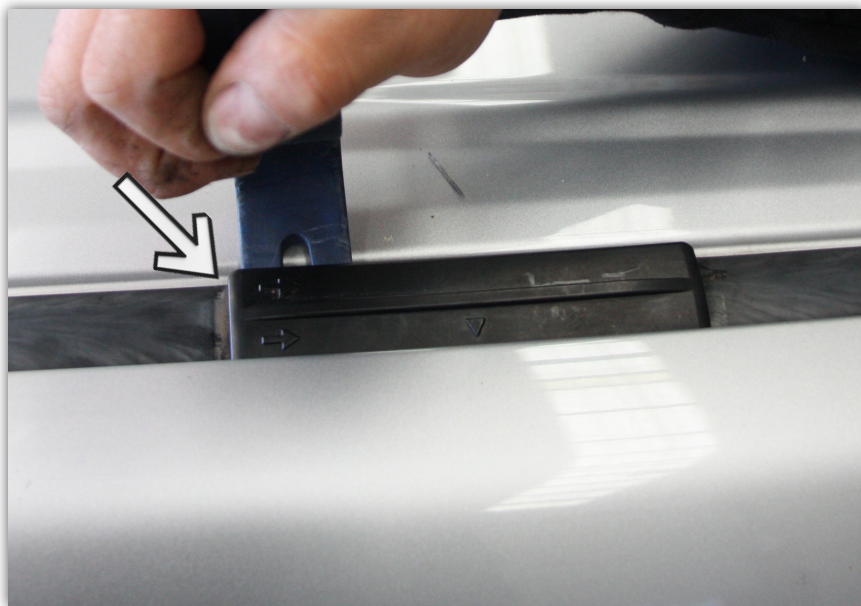


8. Use a 12 mm socket to remove the bolt from the middle mount, then remove the roof rail. Mounting point #3.

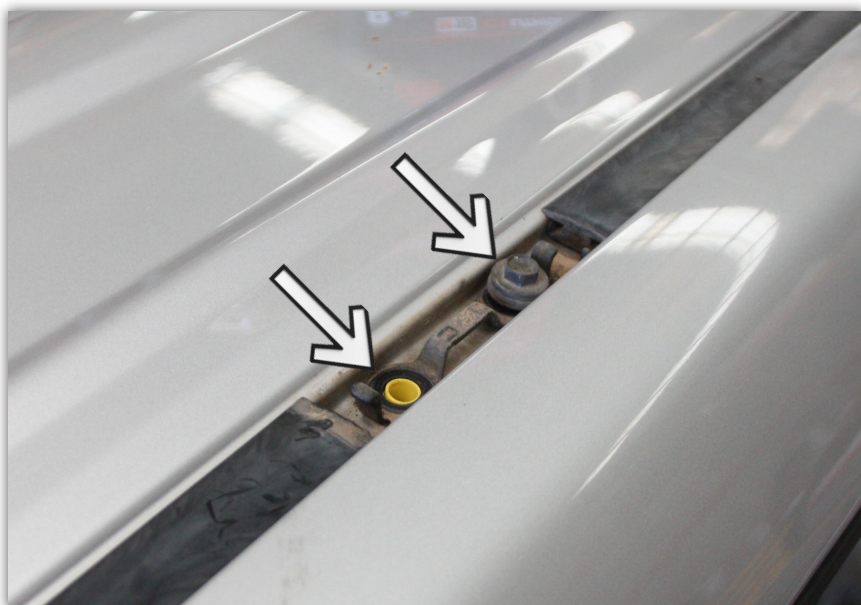


9. Use a 10 mm socket to remove the 2 bolts and factory bracket. Mounting point #3.

NOTE: Loosen both bolts before removing them to prevent internal retaining plates from dislodging.

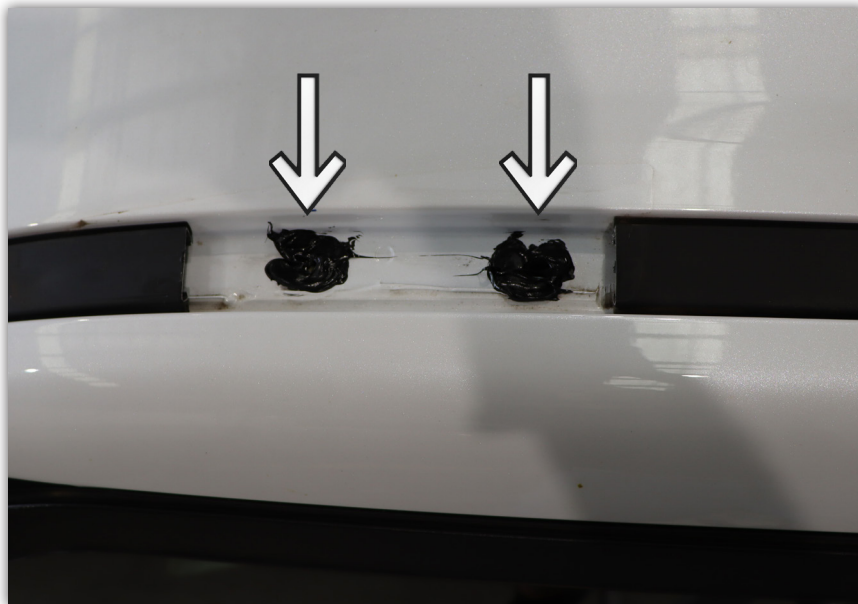


10. Use a trim tool to remove the cap from the roof-channel trim located at mounting point #2.



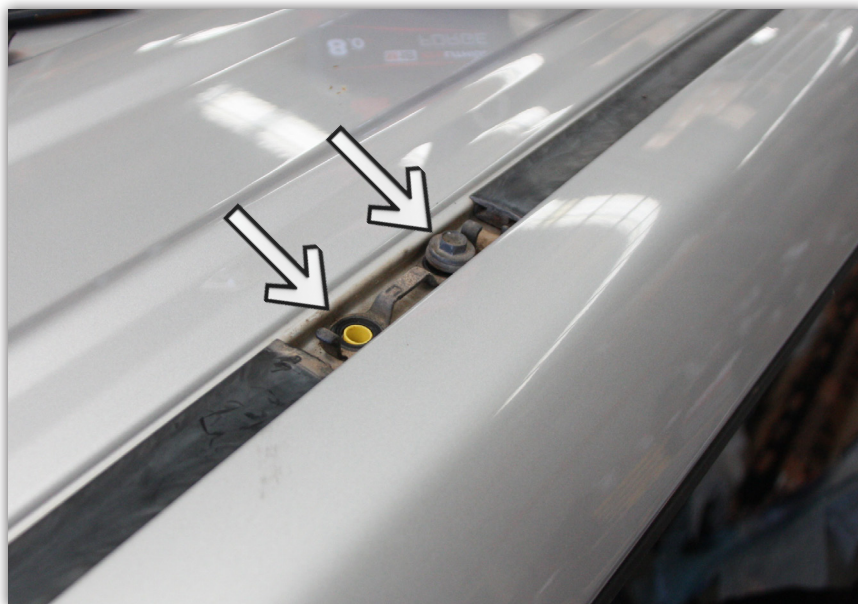
11. Use a 12 mm socket to remove the 2 bolts and factory bracket. Mounting point #2.

NOTE: Loosen both bolts before removing them to prevent internal retaining plates from dislodging.



For **all** vehicle roof configurations.

12. Clean mounting-point #1 and apply sealant to the holes. Ensure the holes are filled and surrounded with sealant.



13. Take the bracket and bolts removed from mounting point #2 in Step 9 and reinstall them at mounting point #1.

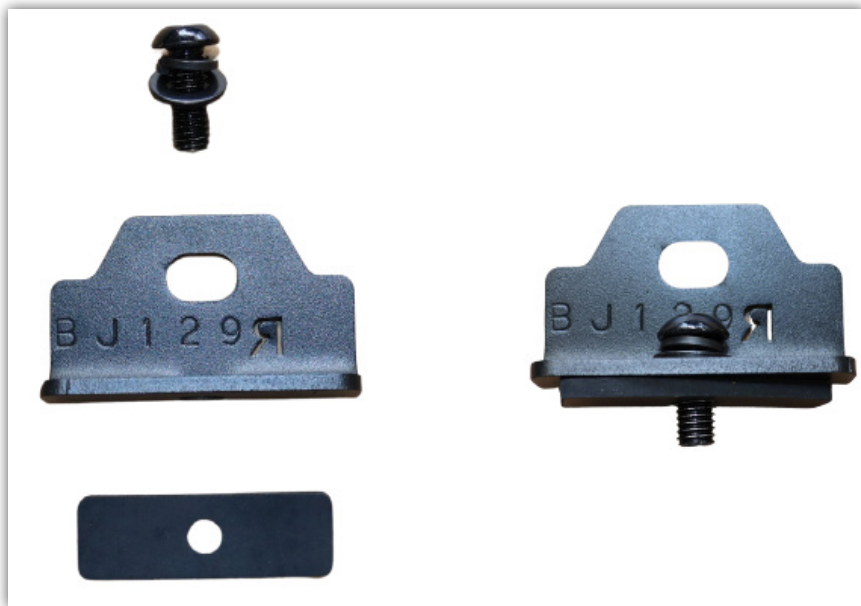
Tighten to 28.8 Nm (21.3 ft-lb)



14. Take the cap removed from the roof-channel trim in Step 8 and install it to the bracket in mounting point #1.

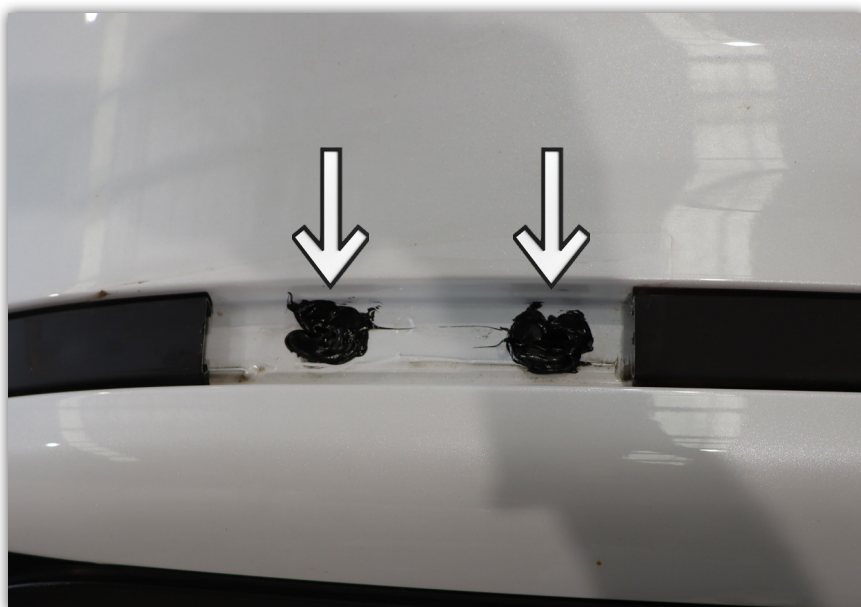


15. Clean mounting points #2, #3, and #4 to ensure they are free of dirt, grease, grime, etc.



16. Assemble the supplied mounting brackets as shown.

Items: #4, #5, #6, #7, #8, #12, #15, and #16



17. Apply sealant to the mounting holes at mounting points #2, #3, and #4. Fill and surround the holes with sealant to help prevent water ingress.



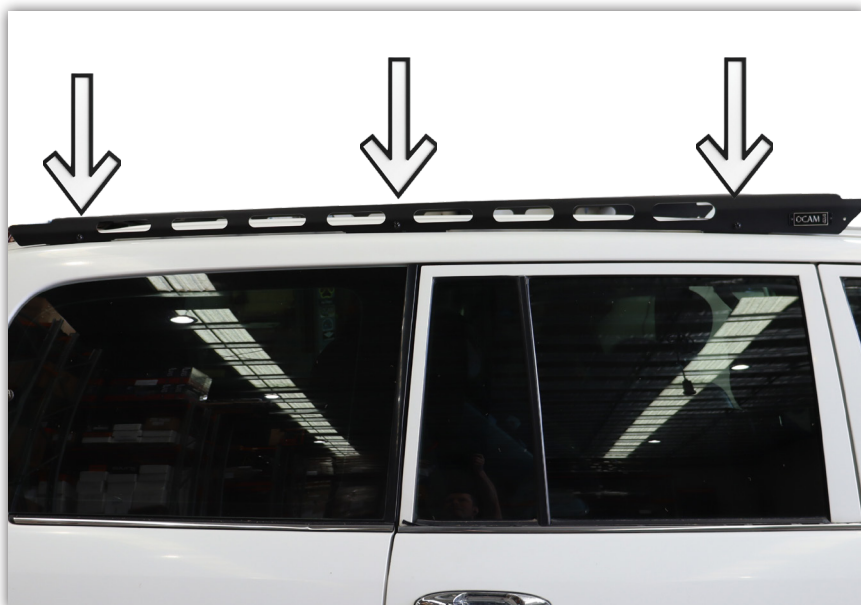
18. Install the 2 front mounting brackets at mounting point #2 and the 4 rear mounting brackets at mounting points #3 and #4.

Items: #4, #5, #6, #7, #8, #12, #15, and #16



19. Use a 5 mm Allen key/ hex bit to tighten all bolts, keeping the mounting brackets straight and centred in the roof channel.

Tighten to 28.8 Nm (21.3 ft-lb)



20. Install the LH and RH roof rails to the mounting brackets.

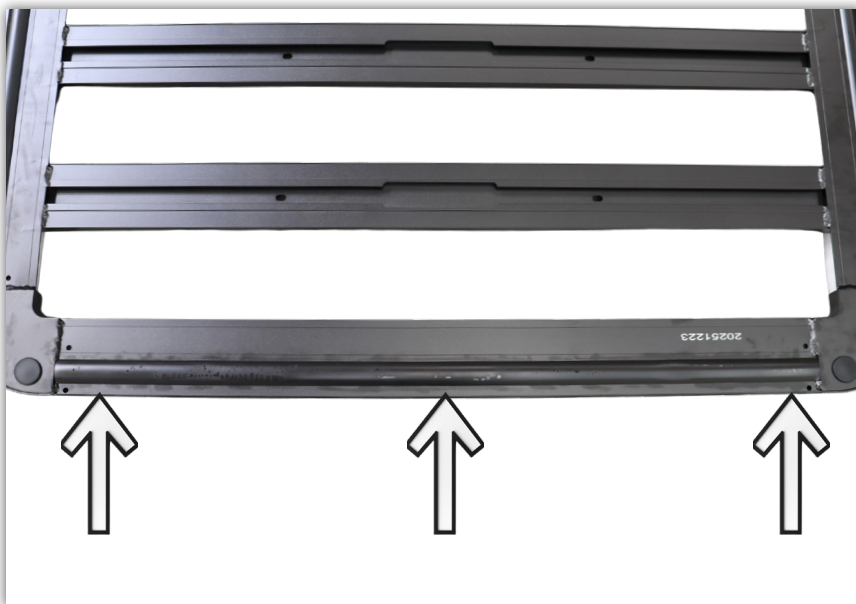
Items: #2 and #3



21. Position the roof rails on the outside of the mounting brackets. Secure them to each mounting bracket with 1 M8 x 20 button-head bolt, 2 M8 flat washers, and 1 M8 nyloc nut.

Tighten to 28.8 Nm (21.3 ft-lb)

Items: #13, #16, and #19



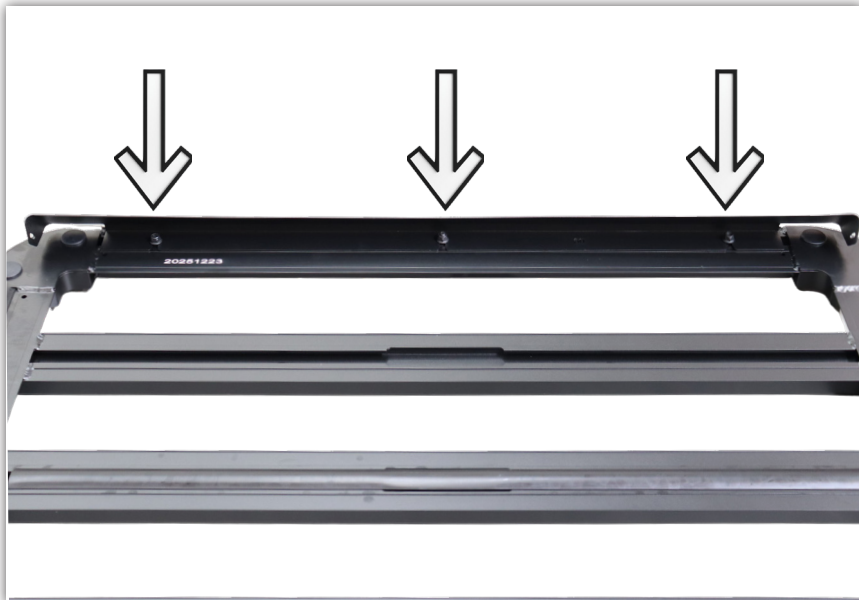
22. Remove the rubber weather strip from the channel at either end of the platform. The platform is symmetrical and can be assembled in either orientation.

Items: #1



23. Insert the 3 T-bolts into the exposed channel.

Items: #11



24. Install the wind deflector onto the T-bolts, centre the wind deflector, and secure it with 3 M8 flanged nyloc nuts. Using a 13 mm open-end spanner, tighten the nuts just enough to hold the wind deflector in place. The wind deflector may require some adjustment later.

Items: #9 and #18



25. With assistance, lift the roof rack into place on the roof rails.



26. Install the double T-bolts into the channels on the underside of the platform crossbars that align with the roof-rail mounting tabs.

Shown with the rack removed for clarity.

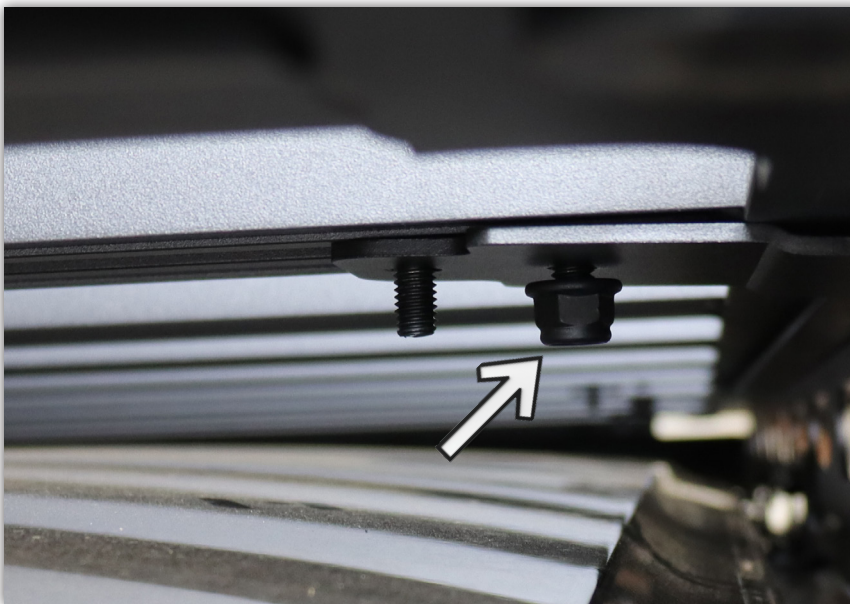
Items: #10



27. Slide the double T-bolts into place.

Shown with the rack removed for clarity.

Items: #10



28. Loosely install a M8 flanged nyloc nut onto only one stud of each double T-bolt until all double T-bolts are in place, this allows for easier adjustment while working. Once all of the double T-bolts are correctly located, install the remaining nuts.

Items: #18



29. Adjust the platform position on the roof rails to ensure it is centred and straight.



30. Tighten all 12 M8 flanged nyloc nuts to secure the platform in place.

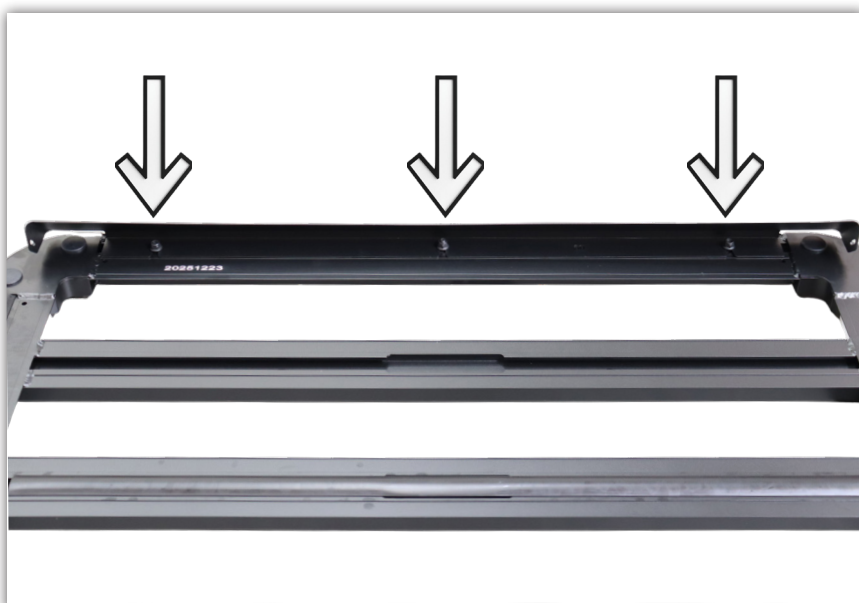
Tighten to 28.8 Nm (21.3 ft-lb)



31. Secure the wind deflector to the roof rails using 2 M6 x 20 button-head bolts, 4 M6 flat washers, and 2 M6 nyloc nuts. Leave the fasteners loose at this stage.

Items: #14, #17, and #20

If not installing wind deflector, install plastic caps here. Item #21

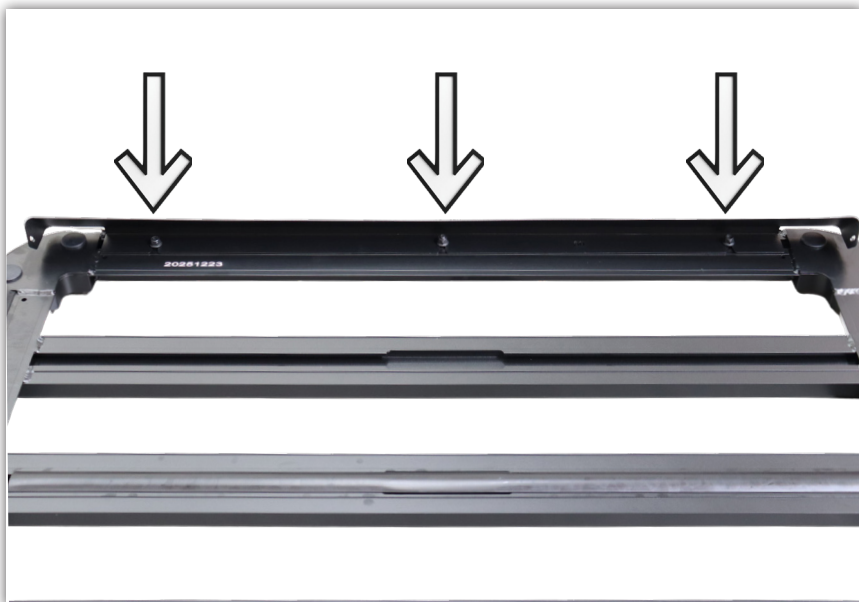


32. Loosen the 3 T-bolt/flanged nyloc nut assemblies securing the wind deflector to the platform enough to allow movement.



33. Tighten the M6 nuts and bolts using a 4 mm Allen key/hex bit and a 10 mm spanner.

Tighten to 11.8 Nm (8.7 ft-lb)



34. Use a 13 mm open-end spanner to tighten 3 T-bolt/flanged nyloc nut assemblies and secure the wind deflector to the platform.

Tighten to 28.8 Nm (21.3 ft-lb)



35. Double-check that all fixings are tightened to the specified torque, then pack away the tools.

Congratulations!

Installation of your roof rack is complete!

For installation assistance or clarification, contact our after-sales team on 0481 614 611 or email hello@ocam.com.au. We will be glad to help.

Do not wash vehicle for 24 hours after installation to allow the sealant to cure fully, failure of sealant may lead to water ingress into vehicle roof.

Recheck the torque of all fixings after 100 km as the roof rack settles, then every 1000 kms and before every trip. We recommend checking more frequently when used on corrugations and off road applications.

RR2-LC100

Roof rack rated load capacity: 200 kg

Roof rack total weight: 35.16 kg

The rated load capacity may exceed your vehicle's roof load limit and should not be considered a recommended maximum. For safe use, always refer to your vehicle manufacturer's specifications to determine the maximum roof load and remember to include the weight of the roof rack in your calculations.