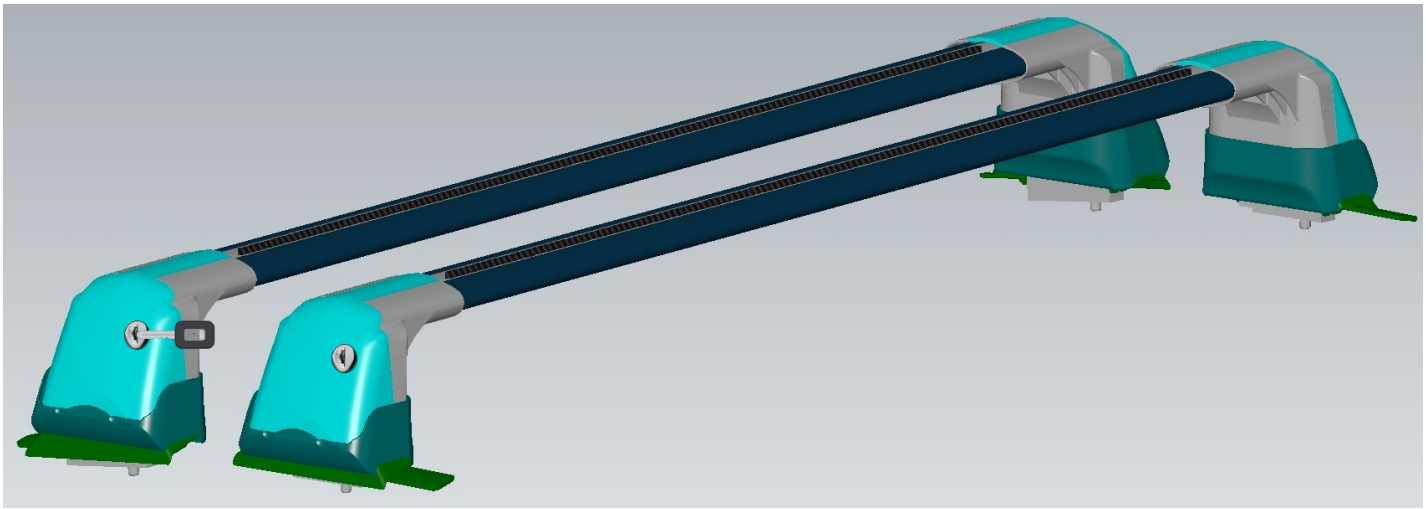
INSTALLATION GUIDE

Cheetah+ Premium Crossbars

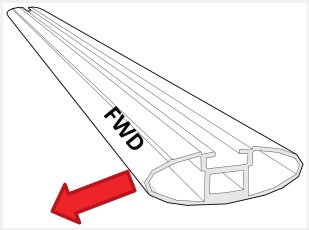
LEGACY PROCEDURE



Vehicle fit	2023 and newer Lexus RX with factory side rails
Max. load (total)	100 kg (220 lb) - never exceed your vehicle's roof load limit, whichever is lower
Sunroof	Compatible with the panoramic sunroof
Torque specs	M8 bracket bolts: 22 N·m (16 ft·lb) | M6 nuts: 7 N·m (5 ft·lb)

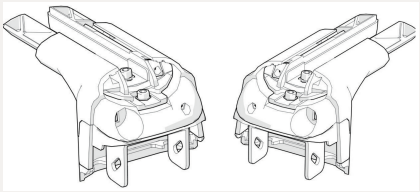
Read the whole guide once before you start. Keep it with the vehicle.

What's in the box



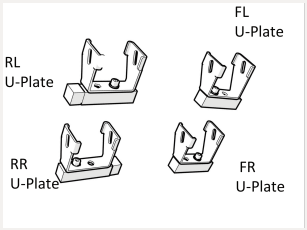
01 **1 long + 1 short aluminum bar**

Arrow marked "FWD" points to the front of the vehicle.



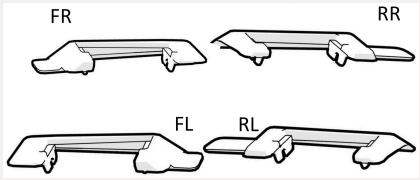
02 **4 brackets (2 L, 2 R)**

L / R = lock hole on the left or right side. Either fits either end.



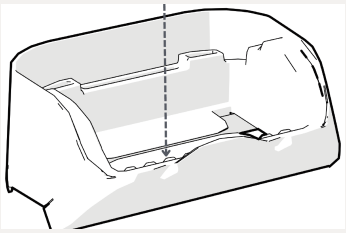
03 **4 U-plates: FL, FR, RL, RR**

Each with an N-plate and a pre-fitted short M8 x 8 mm bolt + washer.



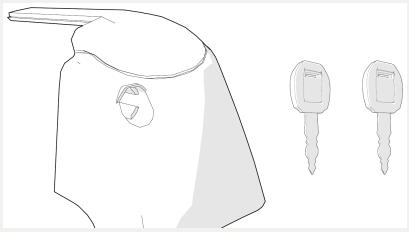
04 **4 plastic base covers: FL, FR, RL, RR**

Go under the rubber base, on the rail.



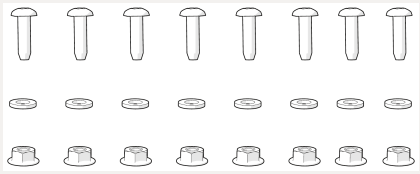
05 **4 rubber bases**

Cut the marked section of the leaf so the long M8 bolt head is reachable.



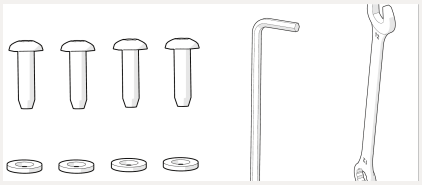
06 **4 locking covers (2 L, 2 R) + 2 keys**

Record your key number and keep the spare safe.



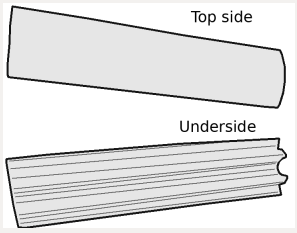
07 **8 x M6 x 16 mm bolt / nut / washer**

Join the U-plate and N-plate.



08 **4 x M8 x 40 mm bolt + washer, Allen key, wrench**

Fix each bracket to the rail.



09 **4 short rubber end strips**

Flat on top, ribbed underneath. One at each bar end, flat side up.

Extra spare parts or packing forms may be included. If anything is missing, contact the seller through your order before you start.

Tools you will need

- Allen key and wrench (included)
- Plastic pry tool (to remove the rail slot covers)
- Torque wrench with Allen bit (recommended, not included)
- Sharp utility knife (rubber base leaf, rear cover trim)
- Fine sandpaper or small file (cover tube tip)
- Masking tape and marker (labels)
- A helper to lift and hold the bars

Position key

Position	Where	Bar
FL / FR	Front left / Front right	**LONG bar**
RL / RR	Rear left / Rear right	**SHORT bar**

Left and right are as seen from the driver's seat. The "FWD" arrow and the ridgeline on top of each bar always face the front of the vehicle.

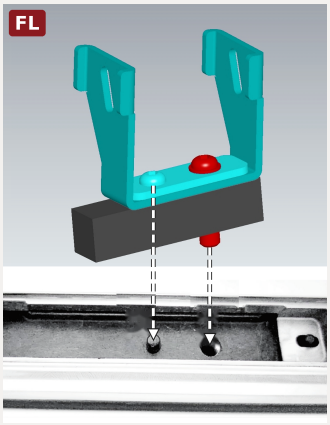
Part A - Prepare the roof rails

1 Bolt a U-plate into each rail slot

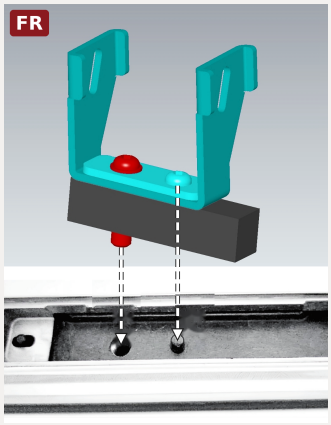
- Use a plastic pry tool to remove the factory cover from each mounting slot on the roof rails. Keep the covers for later.
- Set the matching U-plate (FL, FR, RL, RR) into each slot on the rails. The short M8 bolt comes **pre-fitted**, fixing the U-plate to its aluminium block - leave it in place.
- Fit the **long M8 x 40 mm bolt** (red in the pictures) with its washer. The long bolt always sits on the side **toward the middle of the roof**.
- Line the long bolt up with the **mounting hole** in the rail slot and the pre-fitted short bolt with the **hole next to it**, then thread the long bolt in a few turns by hand.
- Push the U-plate until it is fully seated in the slot.
- The left-hand plates (FL, RL) are mirror images of the right-hand plates (FR, RR) - check each plate against the pictures below.

ATTENTION: Do NOT loosen or remove the pre-fitted short M8 bolt on any U-plate - it holds the U-plate to its aluminium block.

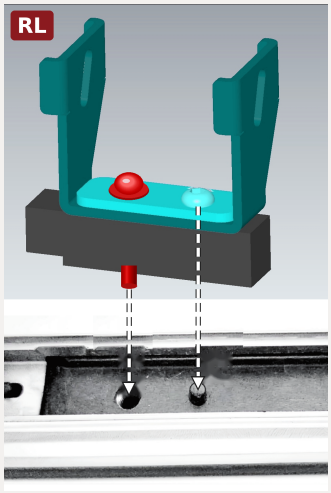
Which U-plate goes where - long bolt (red) toward the middle of the roof, into the mounting hole



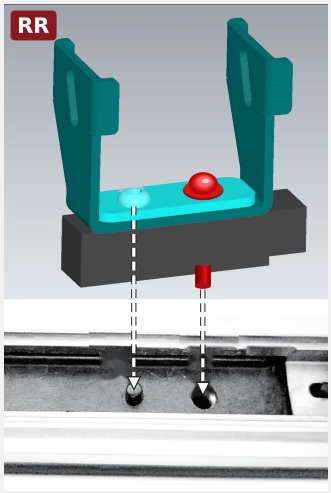
Front left



Front right

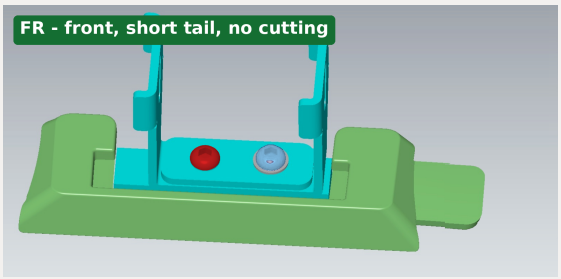


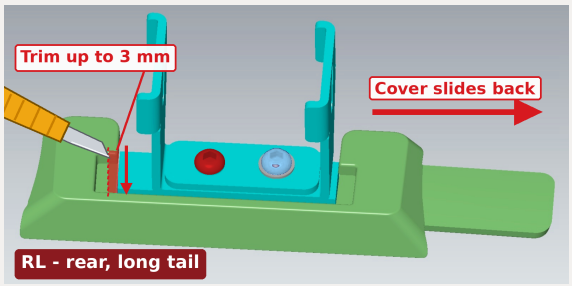
Rear left



Rear right

Part A - Prepare the roof rails (cont.)

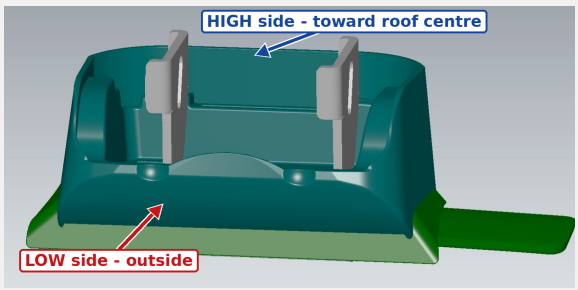


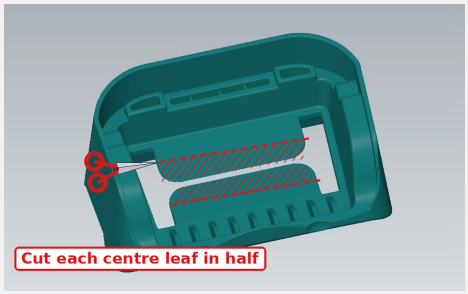


2 Fit the plastic base covers

- Place the matching plastic base cover over each U-plate. **Front covers (FL/FR) have a short tail** - no cutting is needed. Rear covers (RL/RR) have a long tail. Shown: FR (top) and RL (bottom).
- Slide the cover until its tail section sits well in the slot. Keep both M8 bolts loose while you do this if needed.
- Once the cover is in place, tighten the M8 bolts to **22 N·m (16 ft·lb)**.

TIP: Rear cover gap at the tail end: 1) Keep the long M8 bolt loose, push the plate's aluminium block backward in the slot until there is no space, then tighten. 2) If a gap remains, trim up to 3 mm from the marked inner edge (red area) with a sharp blade so the cover slides back.

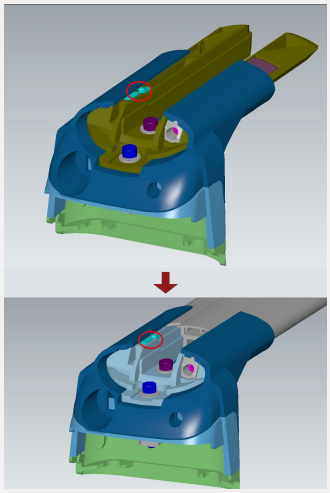




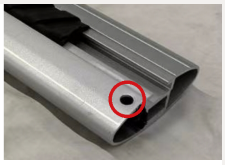
3 Fit a rubber base on each plate

- With scissors, **cut each of the two centre leaves in half** along the red dashed lines (lower picture). This makes the base easier to fit and leaves the long M8 bolt head reachable.
- Put one rubber base onto each plate, with the **high side toward the middle of the roof** and the **low side facing outside**.

Part B - Assemble the crossbars (on the ground)



Plastic clip



Hole at bar end

4 Attach the brackets to the bars

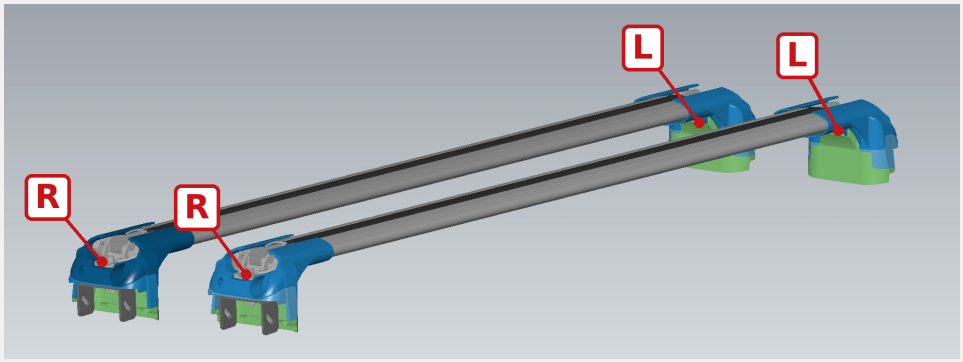
- **LONG bar = front. SHORT bar = rear.**
- Slide the brackets onto the bars.
- Each bar gets **one L and one R bracket**. L and R only differ in which side the lock hole is on - either bracket can go at either end of the bar.
- If the **plastic clip** on the top-left slot of the bracket is used, it must snap into the **hole at the bar end** when you assemble (lower picture).

TIP: The plastic clip is optional - you can take it out if you do not want to use it.

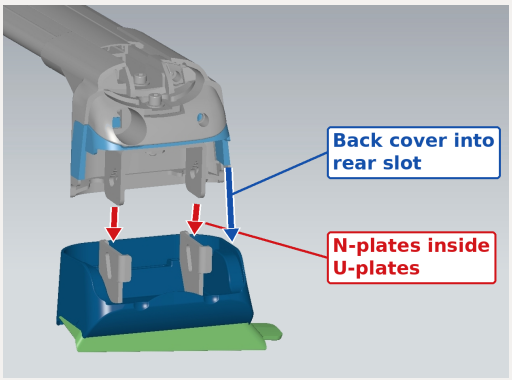
ATTENTION: Loosen the top bolts #3, #4 and #5 (see Step 7) only enough to slide the bar in - NEVER unscrew them off their nuts.

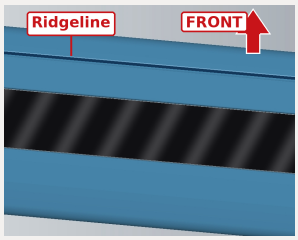
IMPORTANT: The **ridgeline** on top of each bar must face the **front of the vehicle** when the crossbars are placed on the roof rails (see Step 5).

Assembled crossbars - one L and one R bracket on each bar (L / R = lock-hole side)



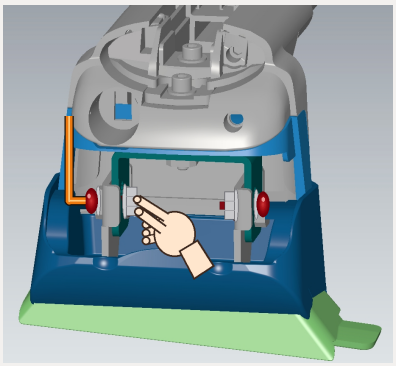
Part C - Mount, tighten and lock





5 Place the crossbars onto the U-plates

- With a helper, hold each bracket above the rubber base on its U-plate and lower the crossbar straight down.
- The N-plates go **inside** the U-plates so the M6 bolt holes line up.
- Seat the bracket **back cover** into the slot at the back, inside the rubber base.
- Keep the **ridgeline** on top of each bar (and the "FWD" arrow) on the **front** side, toward the front of the vehicle (lower picture).

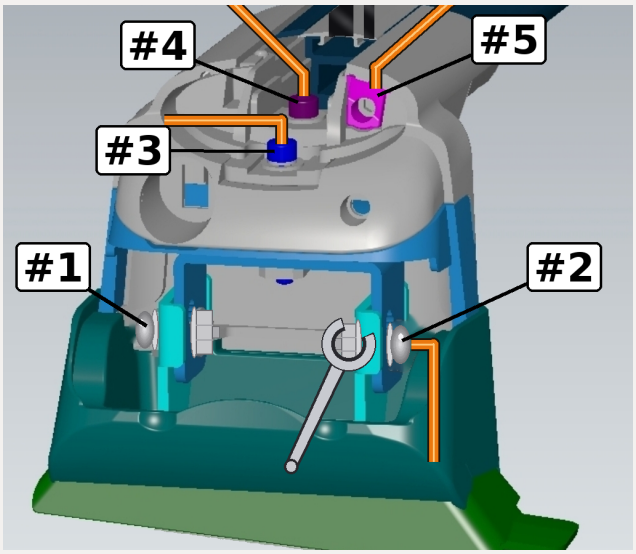


6 Join the plates with the M6 hardware

- Insert each M6 x 16 mm bolt from the **outside** toward the inside.
- Hold the bolt head from the outside with the **Allen key**, and by hand fit the washer and nut from the **inside of the U-plates** - finger-tight only.

TIP: Keep the M6 bolts loose until all parts are lined up and adjusted in Step 7.

Part C - Mount, tighten and lock (cont.)



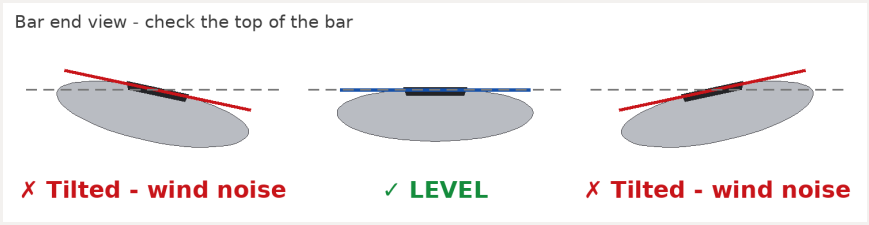
7 Align, then tighten bolts #1 to #5

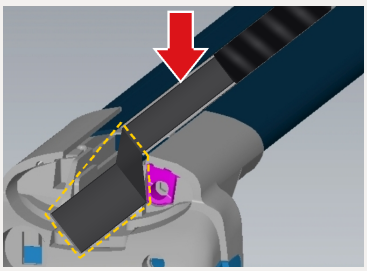
- Adjust the rubber base, align the bracket back cover and set the plastic base cover squarely underneath.
- With bolts **#1 and #2** (M6 bolt, washer and nut) fitted but not yet tight, tilt the bracket on the U-plates until the **top surface of the aluminium bar is level** (see the level check below), then tighten.
- Tighten **#3, #4 and #5** with the Allen key.
- For **#1 and #2**, hold the bolt head with the Allen key and tighten the nut with the wrench to **7 N·m (5 ft·lb)**.

TIP: Keep the bar top level - a bar tilted up or down will cause wind noise.

IMPORTANT: Do not over-tighten the M6 nuts. Use a torque wrench so every nut is set to the same 7 N·m.

Level check before tightening #1 and #2 - bar end view



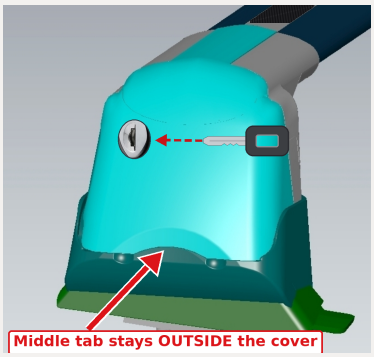


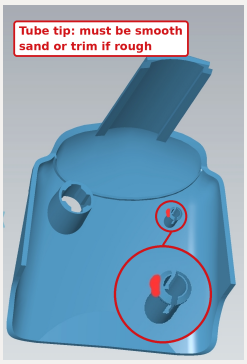
8 Fit a short rubber end strip at each bar end

- Before fitting the covers, press one short rubber end strip into the top slot at the end of each bar. It runs past the bar end into the bracket slot and **covers the two top bolts** (yellow dashed area).
- **Flat side faces up**; the ribbed side goes down into the slot.
- One piece at each bar end - four in total.

IMPORTANT: Do not cut off the extended section of the strip - it is intended for future use.

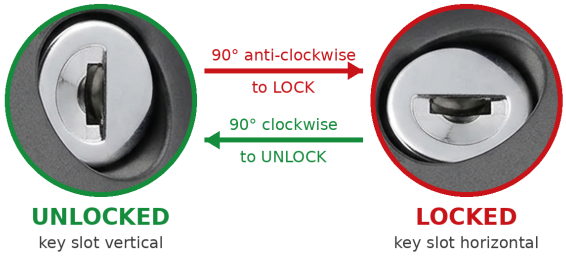
Part C - Mount, tighten and lock (cont.)





9 Fit and lock the covers

- Check the small **tube tip inside the cover** (circled, lower picture). It must be smooth; if it is rough or tight, smooth its left and right sides with fine sandpaper or a sharp blade.
- Slide the cover into the top slot and line up its edge and front with the rubber base.
- Make sure the **middle tab of the rubber base stays outside the cover** and holds it fully in place (see arrow).
- Push until you hear a click. To lock, turn the key **90° anti-clockwise** until the slot is **horizontal**, then remove it.

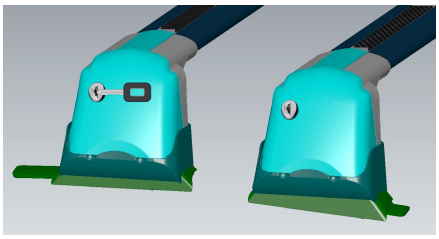


Final check before you drive

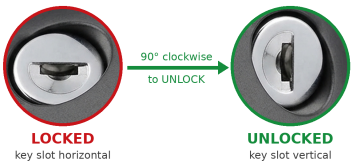
- [ ] "FWD" arrows and ridgelines face forward; LONG bar is at the front.
- [ ] A rubber end strip, flat side up, is fitted at each of the four bar ends.
- [ ] All four M8 bracket bolts at 22 N·m; M6 nuts at 7 N·m.
- [ ] Brackets sit tight on the rails with no gaps.
- [ ] Top surface of each bar is level (not tilted up or down).
- [ ] All four covers clicked in and locked (key slot horizontal); keys removed and stored.
- [ ] Push and pull each bar firmly - nothing should shift or rattle.
- [ ] Re-check bolt tightness every 1,000 km (600 mi) on long trips, rough roads or at highway speed.

Removing the crossbars

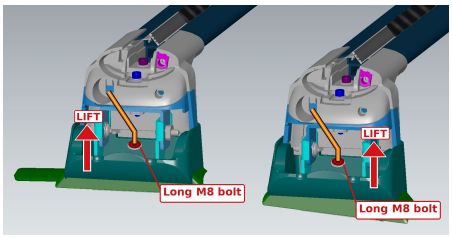
1. Remove the locking covers



1. Unlock: turn the key **90° clockwise** until the slot is **vertical**.
2. Gently pry the cover off from the bottom edge.
3. Slide the cover out smoothly.



2. Remove the brackets



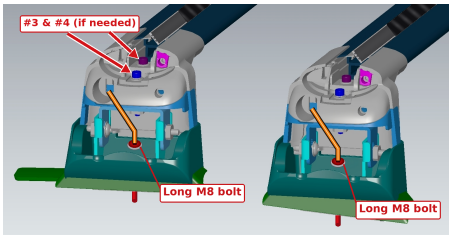
1. With the Allen key, loosen and remove only the **long M8 bolt** (red, toward the middle of the roof) so it comes free of the mounting hole in the rail.
2. **Front bar:** lift the bracket from the front until the bottom of the bracket releases from the slot.
3. **Rear bar:** lift the bracket from the back until it is free of the slot.
4. Refit the factory slot covers on the rails.

ATTENTION: Only loosen and remove the long M8 bolt toward the middle of the roof. Do NOT remove the short M8 bolt on any U-plate - it stays fixed to the aluminium block.

TIP: Store the bars fully assembled so no small parts get lost. Keep the keys with the bars.

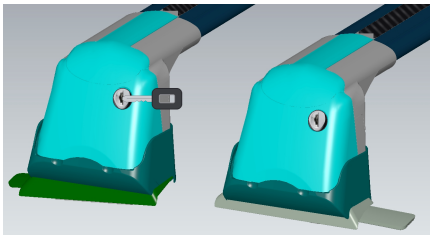
Reinstalling the crossbars

1. Refit the brackets

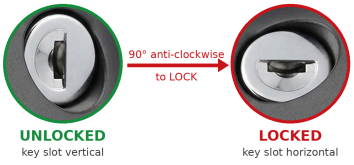


1. Insert each crossbar into its slot (LONG bar at the front, **ridgeline facing the front**).
2. Line up the hole and insert the **long M8 bolt** (red) with its washer, using the Allen key.
3. Push the aluminium block at the bottom of the plate until it fits snugly in the slot.
4. If needed: loosen top bolts **#3 and #4** (red arrows) a little so the U-plate kit aluminium spacer can tilt in and out and slide into the slot - do not disengage them from their nuts at the bottom - then retighten.
5. Tighten the M8 bolts to 22 N·m and all other bolts as in Step 7.

2. Refit and lock the covers



1. Slide the cover gently into the top slot.
2. Line up its edge and front with the rubber base.
3. Push until it clicks, with minimal gap.
4. Lock: turn the key **90° anti-clockwise** until the slot is horizontal.



Safety and care

SAFETY NOTES

- Never exceed the load limit on page 1 or your vehicle's roof load limit - whichever is lower. See your owner's manual for roof-carrying information.
- Check that the crossbars are tight every 1,000 km (600 mi) on long trips, rough roads or at high speed, and check regularly that the load is secure.
- A roof load changes how the vehicle handles. Spread the load evenly between the bars and keep it as low as possible.
- Make sure the bars are installed facing the right way ("FWD" forward, LONG bar in front).
- Make sure the bars are fully tightened to the side rails with no gaps, and all covers are locked on the brackets.
- Expect some increase in wind noise with crossbars fitted.
- If you will not use the bars for a long time, remove them - but store them assembled so no parts are lost.
- Check the metal parts under the covers from time to time. Clean any rust with a baking-soda paste or a damp cloth.

CONSIGNES DE SÉCURITÉ

- Ne dépassez jamais la limite de charge indiquée à la page 1 ni celle du toit de votre véhicule - la plus basse des deux s'applique. Consultez le manuel du propriétaire pour le transport sur le toit.
- Vérifiez le serrage des barres tous les 1 000 km (600 mi) lors de longs trajets, sur routes accidentées ou à haute vitesse, et vérifiez régulièrement que la charge est bien fixée.
- Une charge sur le toit modifie le comportement du véhicule. Répartissez-la uniformément entre les barres et gardez-la aussi basse que possible.
- Assurez-vous que les barres sont installées dans le bon sens (« FWD » vers l'avant, barre LONGUE à l'avant).
- Assurez-vous que les barres sont bien serrées sur les rails, sans aucun espace, et que tous les couvercles sont verrouillés.
- L'installation des barres peut augmenter le bruit du vent.
- Si vous n'utilisez pas les barres pendant une longue période, retirez-les, mais rangez-les assemblées pour ne perdre aucune pièce.
- Inspectez de temps en temps les pièces métalliques sous les couvercles. Nettoyez la rouille avec une pâte de bicarbonate de soude ou un chiffon humide.

Need help?

If a part is missing, does not fit, or you have a question about installation, stop and do not drive with the bars fitted. Contact the seller through the order details page of the store where you purchased this product - please have your order number ready.