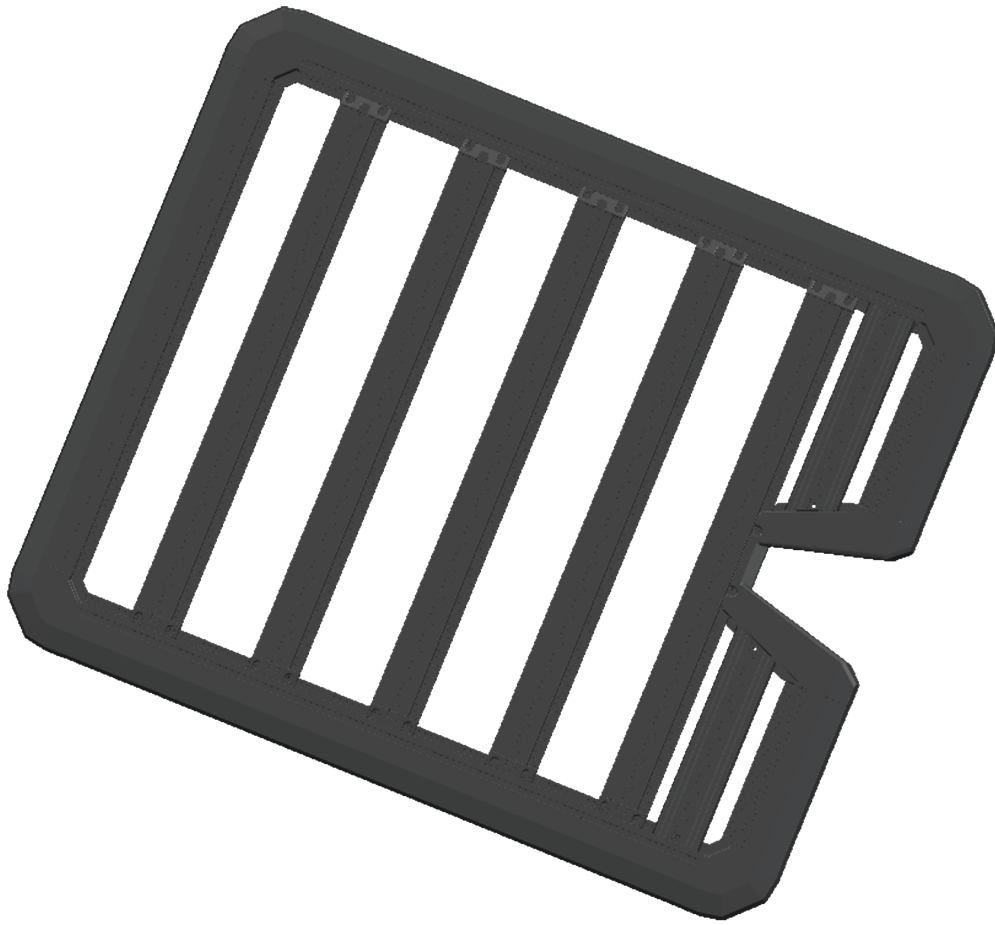


Roof Rack Platform for Toyota Hilux N80 Series (2015–Current)



Please read these instructions carefully and in full before beginning the installation of your ROAR4x4 roof rack.

For the latest updates, fitting methods, or revisions, please visit

www.roar4x4.com

We strongly recommend checking for updated instructions before installation, as improvements or simplified procedures may have been introduced.

Product Name: Roof Rack for Toyota Hilux N80

SKU: RR-FLAT-HILUXN80

Barcode:



9 361171 000826



www.roar4x4.com

Contents: Roof Rack, Mounting Brackets, Installation Manual, and other accessories

Installation: Quick install guide enclosed (full guide at www.roar4x4.com)

Manufactured by: Roar4x4 Pty Ltd

Contact Us: support@roar4x4.com

Website: www.roar4x4.com

Australian Designed, Australian Owned, Australian Tested, Made from Australian Steel and other imported materials.

Country of Manufacture: China

Recycle: Please recycle this packaging responsibly

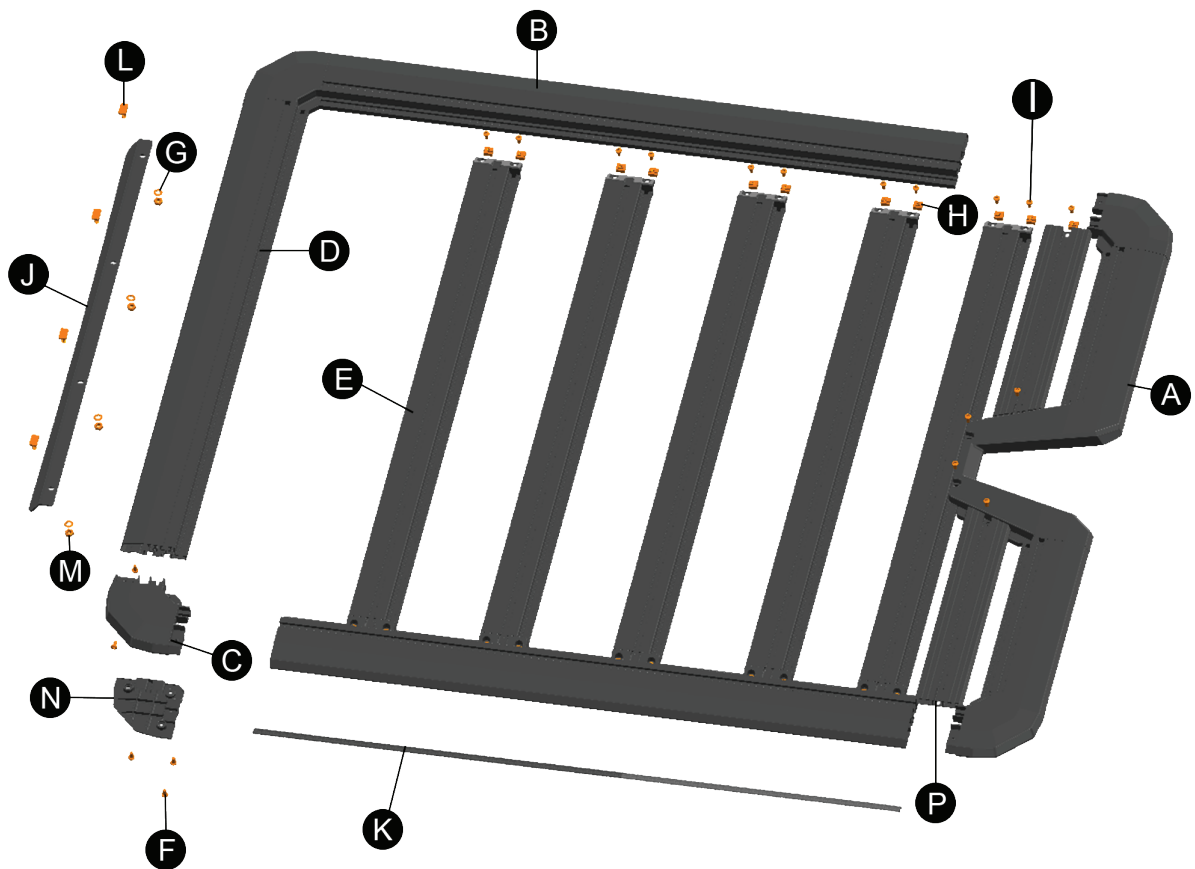
Warning: Improper installation may result in injury or vehicle damage.

1 PARTS LIST 1

	QTY	NAME
A	x 1	rear part
B	x 2	side beam
C	x 4	corner
D	x 1	front beam
E	x 5	cross bars
F	x 24	M6x14 Torx screws
G	x 4	M8 washer
H	x 22	M6 Square nut
I	x 26	M6x10 Torx screws

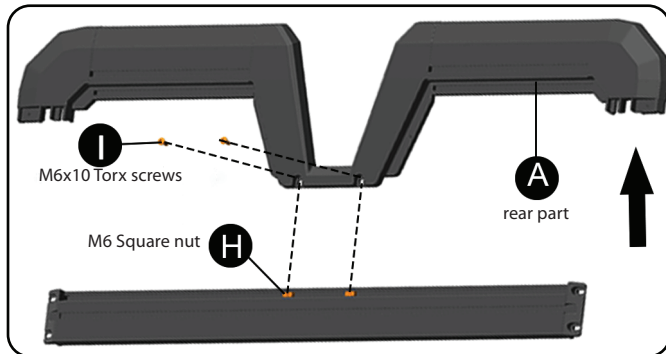
	QTY	NAME
J	x 1	wind def lector
K	x 10	strips
L	x 4	M8x18 T-bolt
M	x 4	M8 nut
N	x 4	corner cover
O	x 1	T30 wrench
P	x 2	short cross bars

Figure 1.1



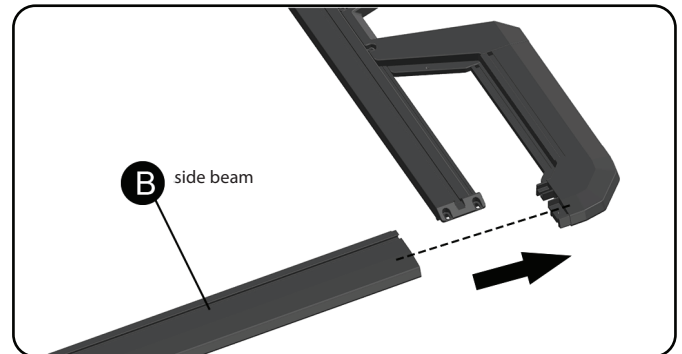
2 INSTALLATION STEPS

Figure 2.1



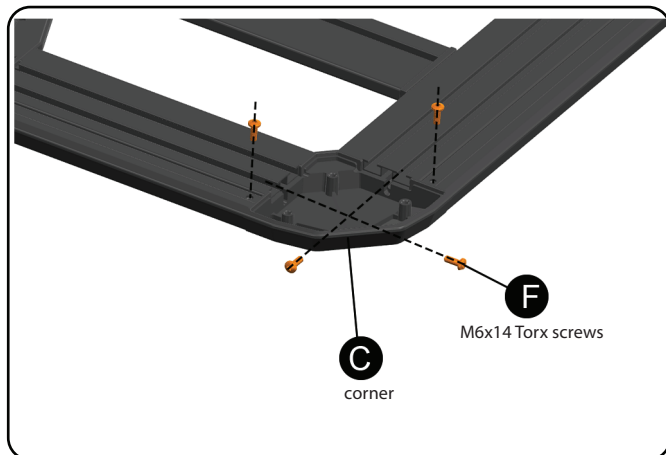
Assemble the cross bars(E) with two square nuts(H) to the rear part's side beam(A) and fix it with M6*10 torx screws(I).

Figure 2.2



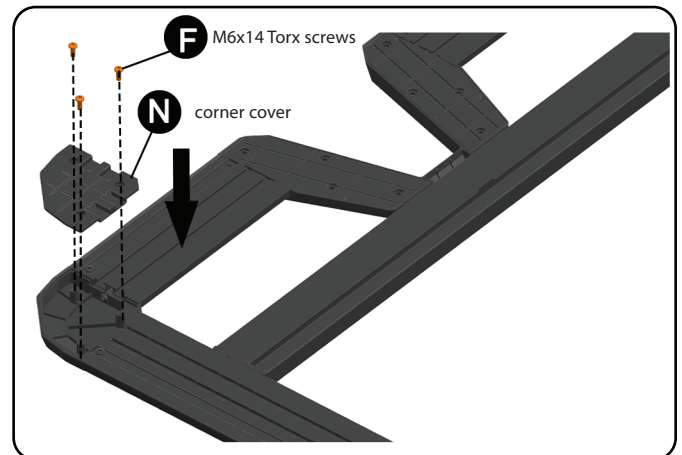
Insert the side beam(B) into the rear part(A)

Figure 2.3



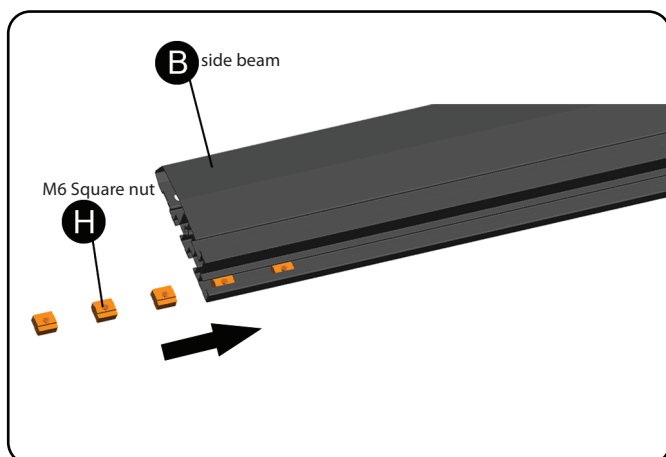
Lock the bottom of side beam(B) and rear corner(C) with M6x14 Torx screws(F)

Figure 2.4



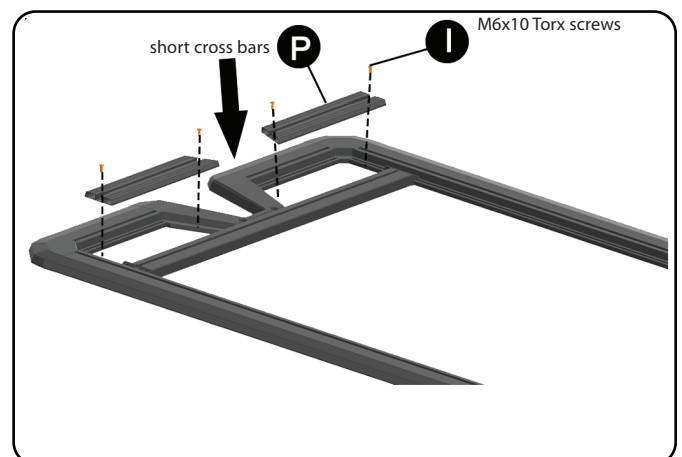
Lock the corner cover (N) with M6x14 Torx screws(F)

Figure 2.5



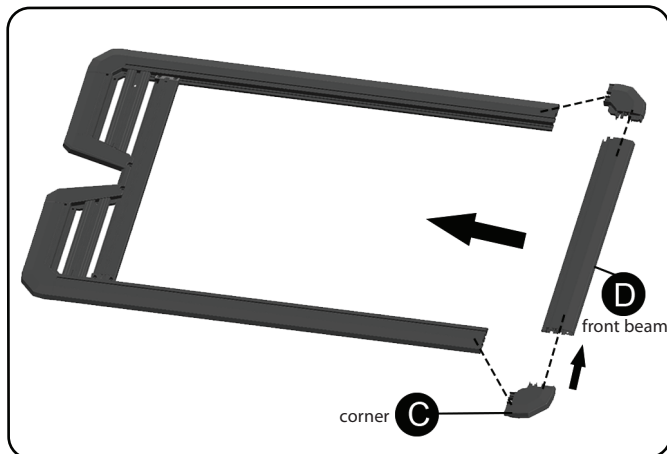
Slide eleven square nuts(H) into each side beam(B)

Figure 2.6



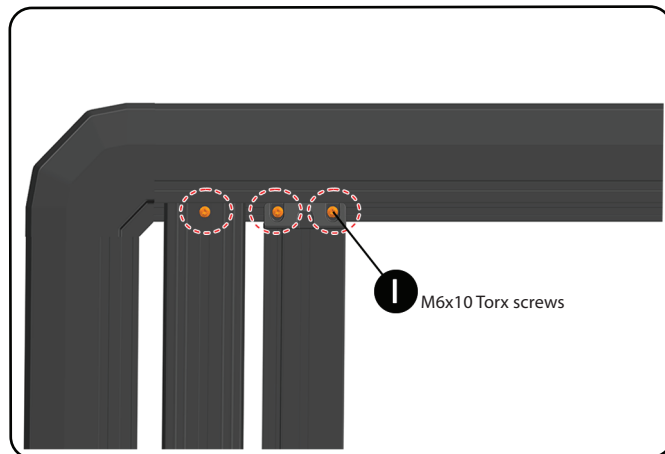
Lock the rear part's side beam(A) and the short cross bars(P) with M6x10 torx screws (I)

Figure 2.7



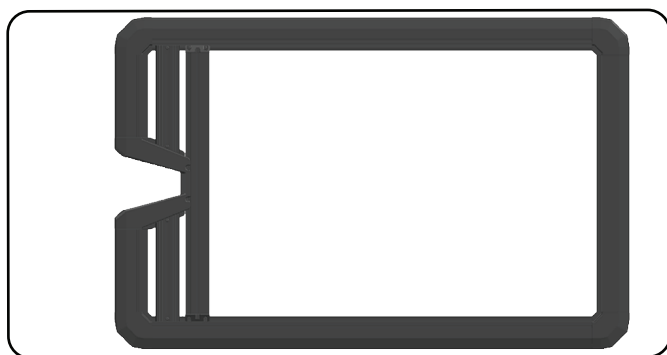
Lock the front beam(D), corner(C) and side beam (B) with M6x14 Torx screws(F) as shown in FIG. 2.3 and FIG. 2.4

Figure 2.8



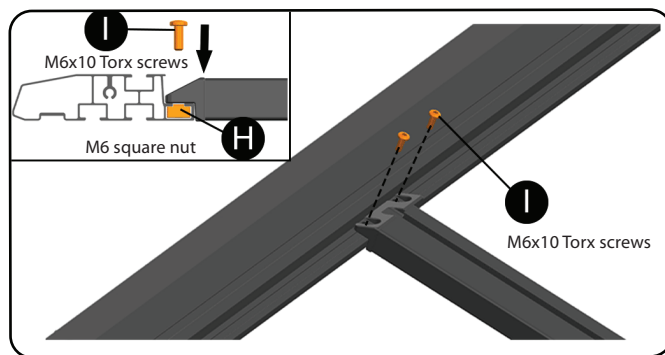
Tighten the M6x10 Torx screws(I)

Figure 2.9



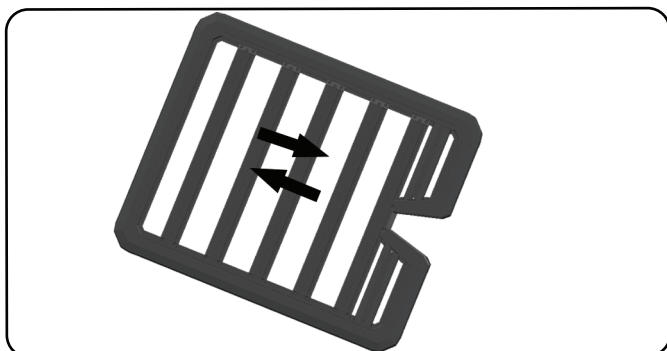
The frame assembly is complete.

Figure 2.10



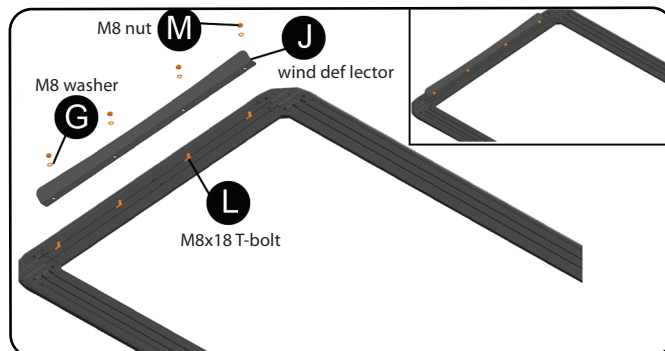
Slide M6 Square nut(H) into side beam(B), install cross bars(E), Put M6x10 Torx screws (I) and lock it

Figure 2.11



Adjust the distance between the cross bars(E) as needed, and finally tighten the M6x10 torx screws (I)

Figure 2.12



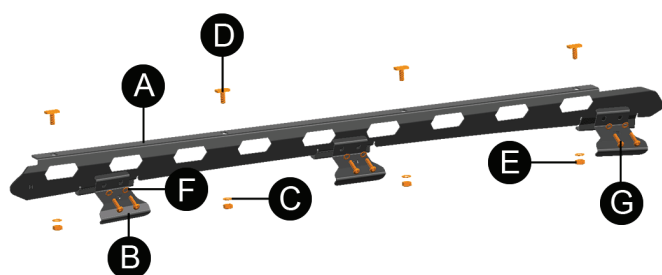
Slide the M8x18 T-bolt(L) into the front beam(D), align the wind deflector's hole(J) with the M8x18 T-bolt(L), and tighten it with a M8 washer(G) and M8 nut(M).

Tip: If you have selected other types of wind deflector. this one does not need to be installed.

3 PARTS LIST 2

Mounting Options

1. **Clamp-On Mounting** – A non-permanent solution allowing easy removal and reinstallation of the roof rack.
2. **Permanent Mounting** – Roof rack brackets are bolted directly into the roof for a secure, fixed installation.
3. **Hybrid Mounting** – A combination of both clamped and bolted methods, offering both strength and removability.

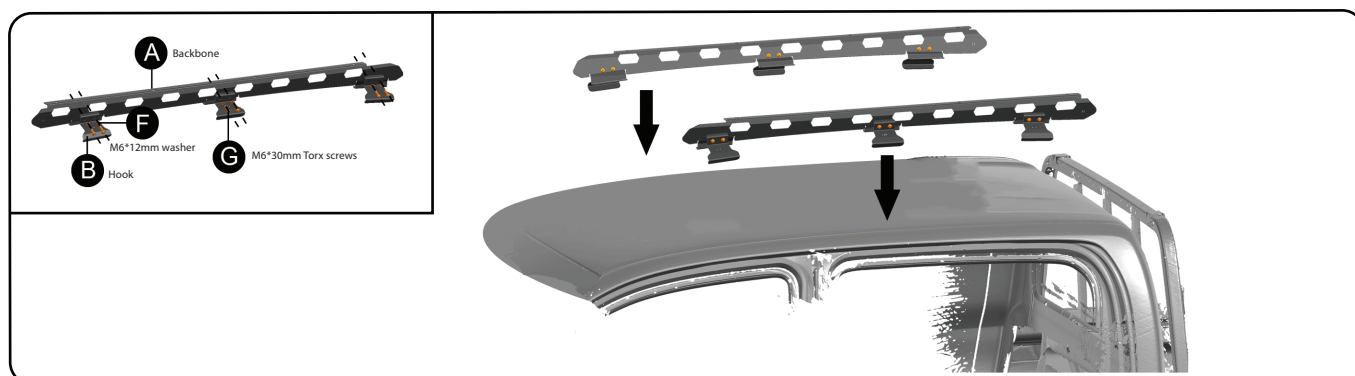


QTY		NAME
A	x 2	Backbone(L,R)
B	x 6	Hook (FL,FR,ML, MR,RL,RR)
C	x 8	M8*16mm washer
D	x 8	M8x18 T-bolt
E	x 8	M8 nut
F	x 12	M6*12mm washer
G	x 12	M6*30mm Torx screws
H	x 12	M6 spring washer
I	x 1	T30 Wrench

4 INSTALLATION STEPS

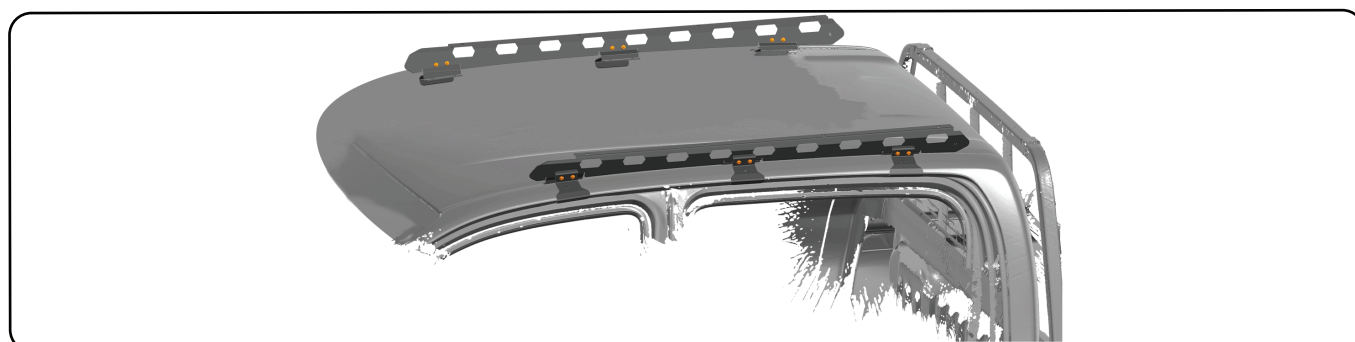
Tips: Spring washers are added according to customer needs

Figure 4.1



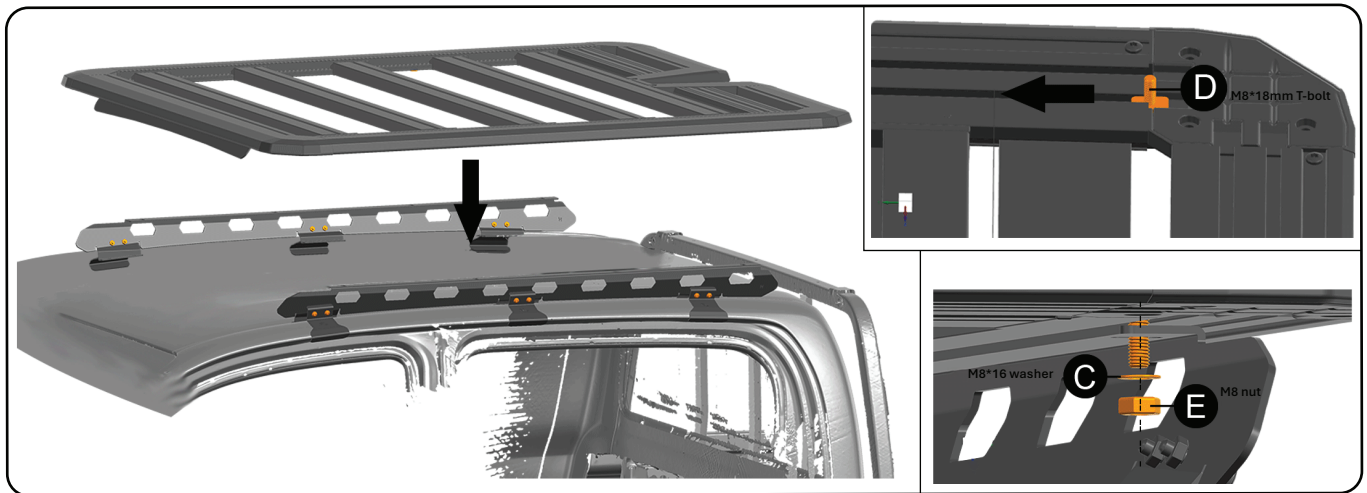
Align the Backbone(A) and Hook(B) holes, fix them with M6*30mmTorx screws (G) and M6*12 washers (F), and place the assembled bracket on the roof (note that there is no need to tighten it; tighten it after installation is complete).

Figure 4.2



The backbone is installed

Figure 4.3



Slide 4 pcs M8*18 T-bolt (D) into the groove on each side of the bottom of the side beam (B), then put the Platform on Backbone(A), and lock it with M8*16 washer (C) and M8 nut (E). (Note that the backbone is divided into left and right)

Figure 4.4



Installation completed

Permanent Roof Mount

1. Overview

This installation guide outlines how to securely mount the ROAR 4x4 roof rack platform to the roof of the N80 Hilux using a permanent through-bolt method. This ensures maximum load stability for off-road conditions and heavy accessory use (awnings, lighting, rooftop tents, etc.).

The Permanent options offers:

- Tidier Aesthetics.
- It can be combined with the clamp system to give stronger load bearing capacity.

Note: This process involves drilling into the roof and accessing the inner roof panel from inside the cabin. Extra care is needed to avoid electrical wiring (including airbag systems) and ensure full waterproofing.

2. Tools & Materials Required

ITEM	PURPOSE
Trim removal tool kit	To remove internal trim safely
Drill with 6mm bit (or step drill)	For drilling roof mount holes
Centre punch	For accurate hole marking
Masking tape	To prevent paint chipping while drilling
Sikaflex/automotive silicone	To fully waterproof drilled holes
M6 x 20mm stainless steel bolts	Roof mounting hardware
Stainless steel flat washers	To distribute load across roof sheet
M6 Nyloc nuts	Vibration-resistant securing from inside
Torque wrench	For controlled bolt tensioning
Sound deadening + insulation (optional)	Cabin noise and thermal control enhancement

3. Preparation – Dropping the Roof Liner

To install a permanent roof mount, the interior roof liner must be dropped.

What Are A, B, and C Pillars?		
A Pillar	Between windscreen and front doors	May contain airbag wiring, handles, speaker grilles
B Pillar	Between front and rear doors	Typically houses seatbelt anchor and plastic trim
C Pillar	Behind rear doors at rear of cabin	May cover wiring, small windows or side airbag modules

Compared to clamp-on mounts, the permanent option offers:

1. Disconnect the battery to avoid airbag warning lights.
2. Remove:
 - A, B, and C pillar trim panels using trim tools
 - Sun visors, grab handles, and roof console
 - Interior dome light and electrical connectors
3. Carefully unclip and lower the roof liner, laying it flat inside the vehicle.

Important: Be cautious near the rear C pillar where curtain airbags and wiring harnesses are located. Drill slowly in this zone.

4. Optional: Sound Deadening & Insulation

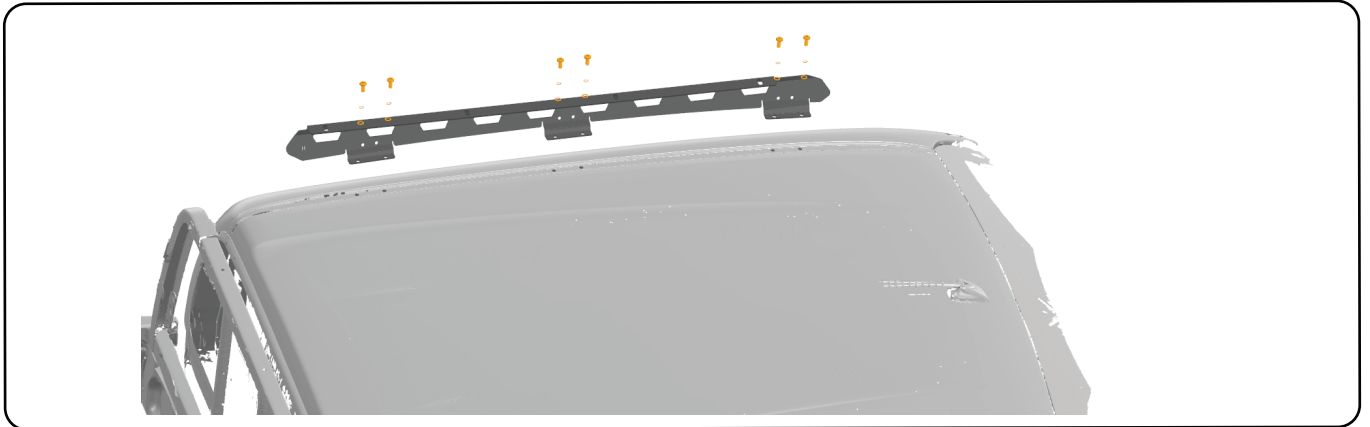
While the liner is down, you may optionally add:

- Sound deadening sheets (e.g. Dynamat or Car Builders) to metal roof panels.
- Peel-and-stick insulation rolls to improve thermal control.

Install these between the roof sheet and the roof liner. You don't need full coverage—just the large panel areas.

5. Drilling & Mounting the Roof Rack

Figure 5.1



A. Marking the Drill Points

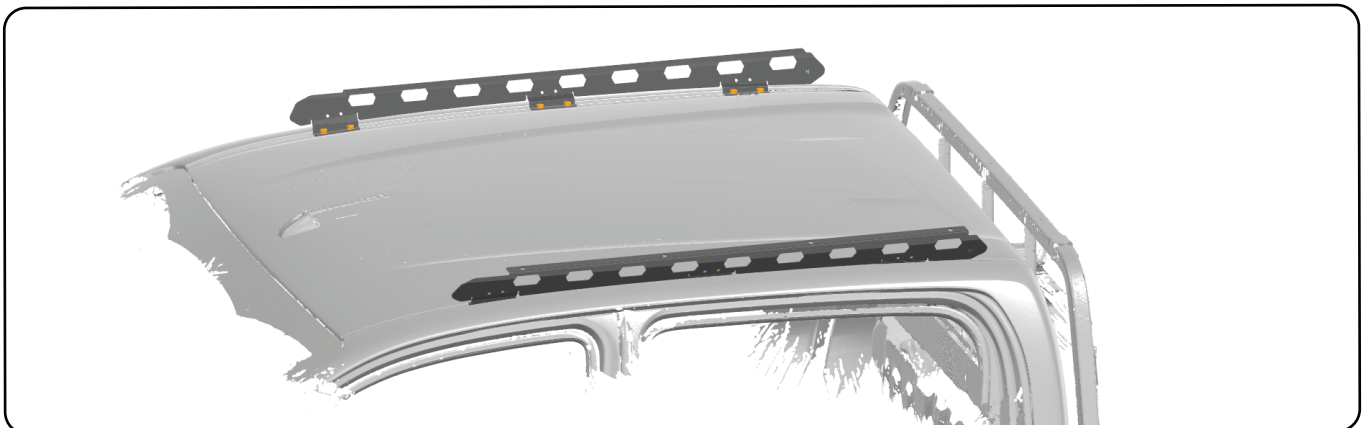
Use the roof rack's mounting brackets as templates to mark hole positions. Each side uses 3 mounting brackets $\times$ 2 holes each = 12 total holes.

Recommended Mounting Positions:

- Front mount: ~300mm from the front edge of the roof
- Middle mount: Centered between front and rear
- Rear mount: ~300mm from the rear edge of the roof

(Adjust placement as required to suit individual preferences, but it is recommended to follow the above guidelines as closely as possible for optimal fitment and performance)

Figure 5.2



B. Drilling Procedure

1. Apply masking tape to drill points to prevent paint chipping.
2. Use a centre punch for accurate hole placement.
3. Drill using a 6mm drill bit or step drill.
4. Use a drill stop or drill cautiously to avoid piercing too deep and damaging the headliner.

6. Waterproofing & Bolt Installation

A. Sealing the Roof

Waterproofing is absolutely critical.

Follow these steps:

1. Clean around the drill holes thoroughly.
2. Apply Sikaflex or black silicone generously around each hole before bolt insertion.
3. Insert bolt through the rack bracket and roof.
4. Inside the cabin, place a flat washer, then Nyloc nut.
5. Torque to approx. 8–10Nm—tight enough to secure without crushing roof metal.
6. Apply sealant inside around the washer and nut for redundancy.

B. Bolt Specs

- Bolts: M6 x 20mm (Stainless Steel)
- Washers: Large OD stainless steel
- Nuts: M6 Nyloc nuts

7. Final Assembly & Water Testing

1. Replace insulation and refit the roof liner and all trim components.
2. Mount the rack platform as per your ROAR 4x4 platform instructions.
3. Hose down the roof to check for water ingress.
4. Inspect interior bolt locations for leaks.
5. Adjust any fittings before final tightening.

ROAR 4x4 Disclaimer – Roof Rack Installation & Use

ROAR4x4 strongly advises that all roof racks and mounting systems be installed by a **qualified professional installer**. While installation may be attempted as a DIY project, it must only be undertaken by individuals with a **high level of mechanical competence** and an understanding of vehicle safety systems.

If you are not fully confident in your ability to install the roof rack correctly and safely, do not proceed with the installation. Seek professional assistance.

ROAR4x4 accepts **no liability** for any damage to the vehicle, personal injury, or issues that may arise due to:

- Incorrect fitment,
- Use of improper tools or techniques,
- Failure to seal drilled holes properly,
- Over-tightening or under-tightening of bolts,
- Misalignment of brackets,
- Installation near sensitive components such as curtain airbags.

Structural Integrity & Load Responsibility

It is solely the installer's responsibility to ensure that the rack is mounted securely and does not compromise the:

- Structural integrity of the roof,
- Weather sealing,
- Safety systems of the vehicle.

All drilled holes **must be fully sealed** using an appropriate automotive-grade sealant (e.g. Sikaflex) to prevent water ingress, rust, or corrosion.

Weight Ratings & Load Responsibility

The vehicle owner is fully responsible for ensuring that the total load placed on the roof rack does not exceed the vehicle manufacturer's roof load rating. This includes the weight of the rack itself and all accessories or cargo.

Important: Roof load ratings differ depending on usage conditions:

- **On-road driving:** Typically, the lowest capacity.
- **Off-road driving:** Capacity is often significantly reduced.
- **Vehicle stationary (e.g. rooftop tent use):** May allow for increased static load.

Always refer to the **vehicle manufacturer's owner manual** for specific roof load ratings and ensure all loads are within approved limits. ROAR 4x4 **does not accept any liability** for damage caused by:

- Overloading the roof,
- Failure to secure loads properly,
- Shifting or falling items,
- Use beyond the rated capacity.



Noise, Fuel Efficiency, and Vehicle Dynamics

Installation of a roof rack system may:

- Increase wind noise, particularly at highway speeds.
- Impact fuel consumption due to added aerodynamic drag and weight.
- Alter the centre of gravity and overall handling of the vehicle, especially when loaded.

Wind Noise – What Causes It?

Wind noise occurs when air moves over and around the crossbars and accessories mounted to the roof rack. The faster you drive, the louder the aerodynamic noise becomes. This is especially noticeable with flat or platform-style racks without fairing-style edges.

To help manage this, ROAR4x4 offers an optional wind deflector with select roof rack kits. While optional, this component has been specifically designed to redirect airflow over the rack, significantly reducing wind turbulence and sound.

When installed correctly, the wind deflector can reduce perceived wind noise by up to 60% at highway speeds.

Wind Deflector Benefits:

- Less wind drag, which may result in improved fuel economy, especially on long-distance drives.
- Reduced cabin noise, contributing to a more comfortable driving experience.
- Better airflow management over rooftop accessories such as light bars or water tanks.

These changes are normal side effects of any roof rack installation. ROAR4x4 will not be held liable for any complaints, warranty issues, or performance effects resulting from Aerodynamic drag, wind noise, vibration, or reduced fuel efficiency.

It is the owner's responsibility to inspect all mounting hardware and fasteners regularly for signs of loosening, fatigue, or wear. Periodic inspection ensures continued safety and proper function.

If you do not understand these instructions or require clarification at any point, please contact your installation professional or qualified installer for support. If they are unable to assist, then contact ROAR4x4 directly for further guidance before proceeding with Installation.

Enhance Your Setup with ROAR 4x4 Accessories

At ROAR 4x4, we offer a comprehensive range of accessories to complement our premium roof rack systems. Our product lineup includes a variety of **mounting brackets and attachment solutions** designed to suit touring, trade, and off-road applications. We also stock **roof rack-mounted water tanks** in multiple sizes—perfect for overland and remote travel setups. In addition to rack accessories, our full range of **performance products** is fully compatible with our roof rack systems, including our high-flow **snorkels**, precision-engineered **airboxes**, and smart **throttle controllers**. Whether you're gearing up for adventure or outfitting your vehicle for work, ROAR 4x4 provides the reliability and versatility you need.

www.roar4x4.com or sales@roar4x4.com Or contact your nearest reseller.