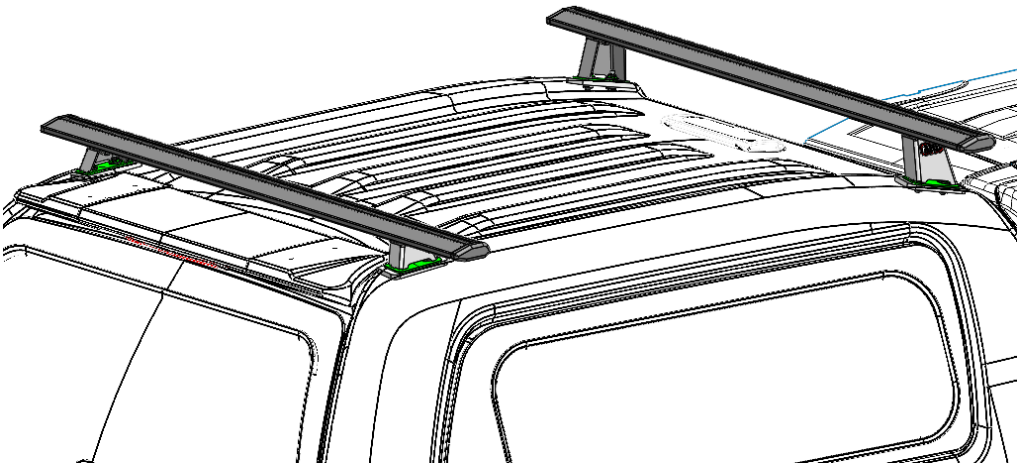
FITTING INSTRUCTIONS

Toyota Tacoma 2024+ Dual Cab Ascent Canopy, Roof Bar Mount Kit - 4123201



Maximum carrying capacity: As stated on internal frames compliance label inside the canopy

Installation Time: Approx. 1 hour approx. Plus internal frame fitment time

! PLEASE PROVIDE A COPY OF THESE INSTRUCTIONS TO THE CUSTOMER !

IMPORTANT:

- It is advisable to have the canopy roof bars fitted by an authorised dealer.
- **Thule and Rhino Vortex branded roof bars must only be used.** Roof bars are sold separately.
- This product is designed for fitment with internal frame brackets.
- **INTERNAL FRAME BRACKETS MUST BE FITTED TO THE STAGE "SECTION 3- FITTING THE ROOF BARS TO THE CANOPY" These are vehicle specific and sold separately, refer to the application chart via you ARB dealer, or call ARB.**
- It may be necessary to readjust the Ascent Canopy's lift up window and door latches after fitment of roof bars due to deflection of the canopy through the tightening of bolts. Please refer to the Ascent Canopy fitting instructions in section entitled "Operational Checks and Adjustments for Windows and Doors" for latching adjustment steps. Call ARB for a copy if required.
- Fitment can be undertaken with one person; however two people are required to bolt roof bars to the roof of the canopy.

CARE OF YOUR CANOPY:

Please refer to the "Owner's Manual Supplement" to be given to the purchaser on installation, this is contained within the separate additional kit fitting instructions for the "Internal Frames". This contains important use and maintenance instructions that customer MUST be aware of.

OWNERS MANUAL SUPPLEMENTS:

Please fill out the owner's manual supplement in the "Internal Frame" instructions and provide this to the customer.

RECORDS OF FITMENT:

Please complete the last page Fitment Check List of the "Internal Frame" instructions and retain these records at the dealer.

WARRANTY:

Please refer to ARB "Warranty against defects" booklet contained in the hardware kit of the "Internal Frames" or contact your dealer. A copy of this booklet should be given to the customer.

SAFETY:

The ARB Ascent Canopy Roof Bar Mount Kit must never be fitted to another product. ARB Roof Bar Mount Kits MUST be fitted with the specific Ascent Canopy Internal Frames.

If you have any queries regarding the installation of this product please contact the distributor from whom it was purchased, or alternatively the ARB office in your state.
Head Office – ARB Corporation Ltd VIC: 42-44 Garden Street, Kilsyth, Victoria, 3137 Tel: (03) 9761 6622 Fax: (03) 9761 6807
WA:(08) 9244 3553 **NSW:** (02) 9821 3633 **ACT:** (02) 6280 7475 **SA:** (08) 8244 5001 **QLD:** (07) 3872 3872 **NT:** (08) 8947 2262 **TAS:** (03) 6331 4190

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

Protective eyewear 	Hearing protection 

NOTE: 'WARNING' notes in the fitting procedure relate to OHS situations, where to avoid a potentially hazardous situation it is suggested that protective safety gear be worn or a safe work procedure be employed. If these notes and warnings are not heeded, injury may result.

TOOL LIST FOR FITMENT:

• Torque Wrench 0-25Nm. • Socket 10mm, extension bar and driver. • Spanner 10mm, 13mm. • Tape Measure/ Ruler • T40, Torx Drive socket drivers. • Small flat blade screwdriver. • Sharp Scissors. • Isopropyl alcohol. • Silicon Caulking Gun • Neutral cure Non-Acetic Silicon (such as Polyurethane)	• Engineer's scribe

FITTING THE ROOF BARS IS UNDERTAKEN IN 4 STAGES:

1. **Preparing the roof channel pedestal mount brackets & seals and fitting the roof mount spacers.**
2. **Pre-fitting the pedestal brackets to the roof bars.**
3. **Fitting the roof bars to the canopy**
4. **Clean, check list and Owner's Manual Supplement.**

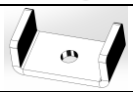
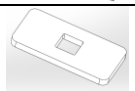
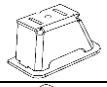
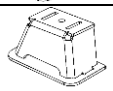
!! IMPORTANT !! other than specifically specified in this instruction

REQUIRED SCREW TORQUES: M6=9Nm M8=22Nm

Screw torques must be adhered to avoid warranty issues and should be checked at each vehicle service interval.

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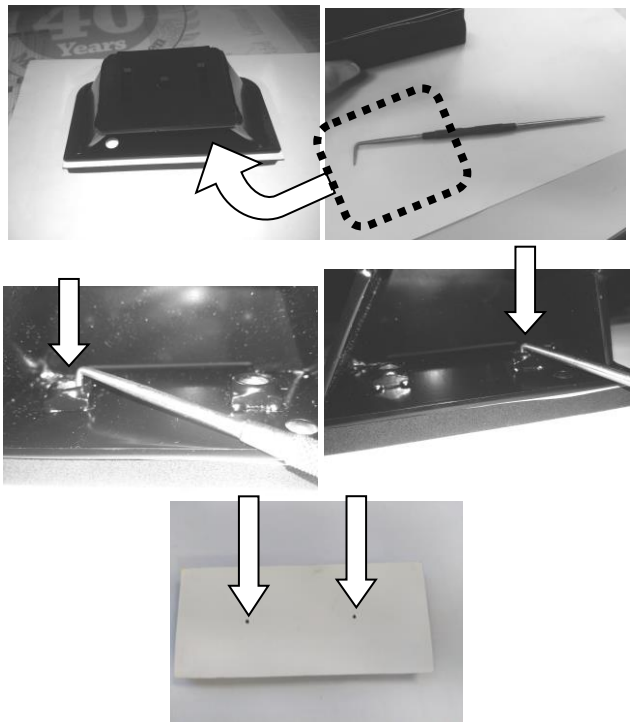
THE FITTING KIT CONTAINS:

	Part No	Picture	Qty	Description
1. SMALL PARTS BAG	3194623		4	PLATE - SPACER THULE CHANNEL
	3759366		4	BRACKET- THULE CHANNEL
	665510		4	SEAL - CHANNEL BRACKET
	3194123		4	PLATE - LOCKING M6
	6151300		4	M6 CAGE NUT
	6151228		4	BOLT- M6 X 30mm HEX - BLACK
	4581287		4	M6 BLACK SPRING WASHERS - BLACK
	6151881		8	SCREW - M8X35 TORX PAN GD 8.8-BLACK WITH NYLON PATCH
	6250056		8	SPACER - ROOF MOUNT OD 24.8 X ID10.5
NOT USED IN: TOYOTA TACOMA ROOF BAR KIT 4123201	6151547		8	NYLOC NUT- M8 - BLACK
	4581303		8	FLAT WASHER - M8 X 25.4MM X 3MM - BLACK
	4581085		8	FLAT WASHER - M8 X 19 X 1.2MM - BLACK
	215618		2	ARB DOMED BADGES
2. PEDESTAL BRACKETS	37500648R		1	PEDESTAL BRACKET – RIGHT HAND FRONT
	37500648L		1	PEDESTAL BRACKET - LEFT HAND FRONT
	37500650R		1	PEDESTAL BRACKET - RIGHT HAND REAR
	37500650L		1	PEDESTAL BRACKET - LEFT HAND REAR

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BEFORE STARTING, READ ALL STEPS OF THE INSTRUCTIONS CAREFULLY AND CHECK ALL PARTS

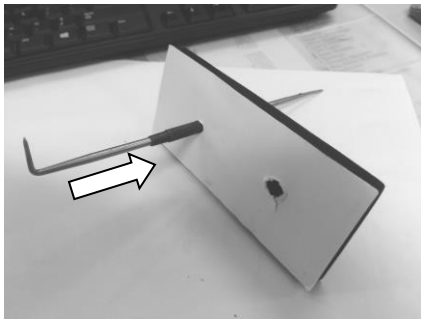
SECTION 1: PREPARING THE ROOF CHANNEL PEDESTAL MOUNT BRACKETS & SEALS AND FITTING THE ROOF MOUNT SPACERS:



1.1) Place the “Seal Channel Bracket” (665510) onto a flat surface with backing paper facing up & place a pedestal bracket on top of the seal with the larger base plate side against the seal. Line up the bracket base plate with the outside profile of the seal.

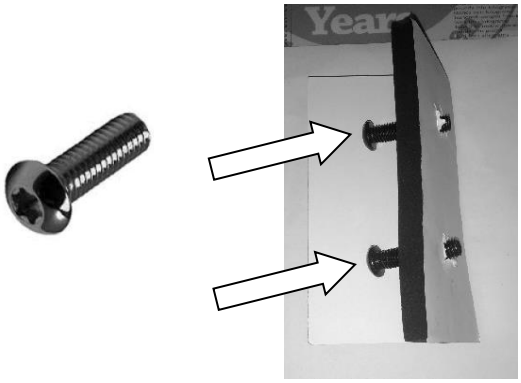
1.2) Use an engineer’s scribe or small drill bit to transfer the hole centres of the base plate onto the back of the seal.





1.3) Place the seal back on to the base plate of the pedestal bracket with the backing paper facing up and pierce the centre of the holes with the scribe or drill bit. Gently push it through the foam seal to make the hole diameter larger to 6mm.

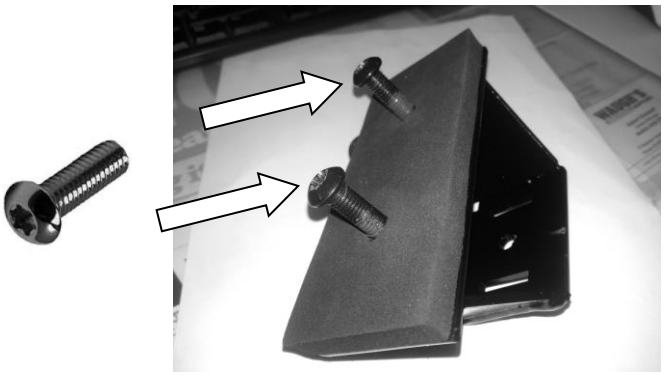
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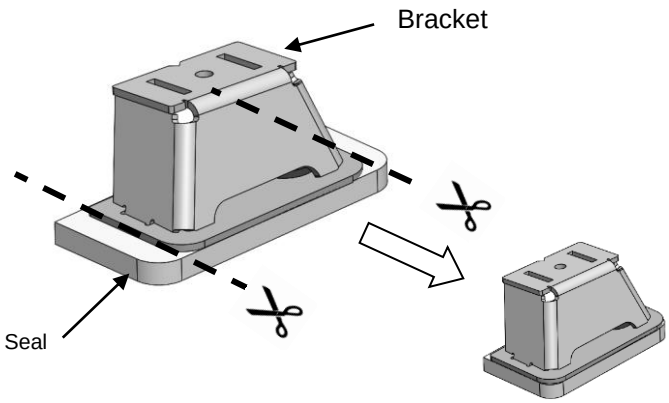
1.4) Turn the seal over, push & rotate two M8 Torx head screws (6151881) through the foam seal and backing paper so the screws protrude through the seals.



1.5) Remove the backing paper from the foam seal and apply the adhesive side to the underside of the pedestal bracket. Complete the preceding steps for all 4 of the pedestal brackets.



Line up the screws to the centre-line of the holes in the pedestal bracket and push the seal down onto the face of the bracket then remove the screws



1.6) Trim excess seal on both ends of the pedestal bracket parallel to bracket edges for all four (4) brackets as shown.

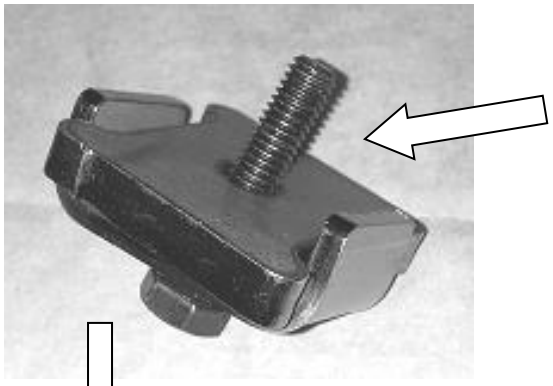
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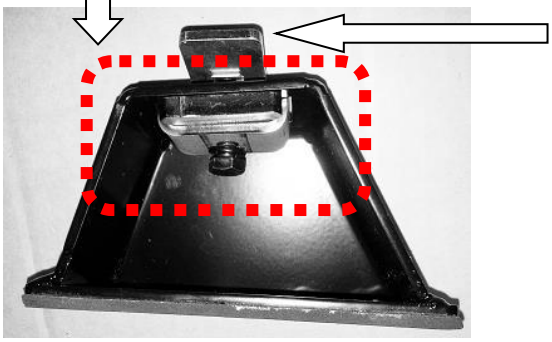
1.7) Assemble four of the locking plates (3194123) with M6 cage nuts (6151300). Clip the cage nuts in by using a flat blade screwdriver.



1.8) Layout the hardware for <u>each</u> pedestal bracket as shown.

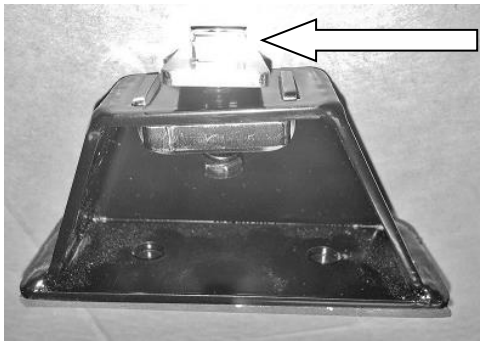


1.9) Assemble the M6x 30 hex bolt (6151228) with M6 spring washer (45813287) under the head, through the “U” shaped bracket- Thule channel (3759366) bracket, then place the plate -spacer (3194623) down inside the channel bracket so the ends of the spacer locate as shown.

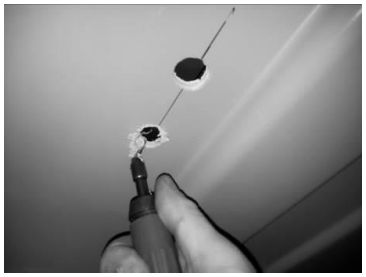


1.10) Assemble the above into the inside of the channel bracket so that the ends of the Thule channel bracket pass through the slots in the top of the pedestal brackets. **<u>Loosely</u>** assemble the bolt through to thread into the cage nut on the “Plate Locking”.

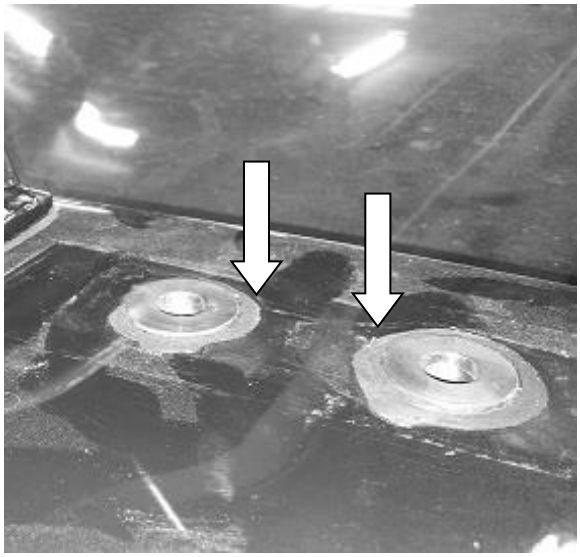
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The cage nut should be facing upwards, on top of the assembly







1.11) **<u>Note:</u> - View the holes that have been drilled from the previously fitted internal frame kit in the roof of the canopy shell.**

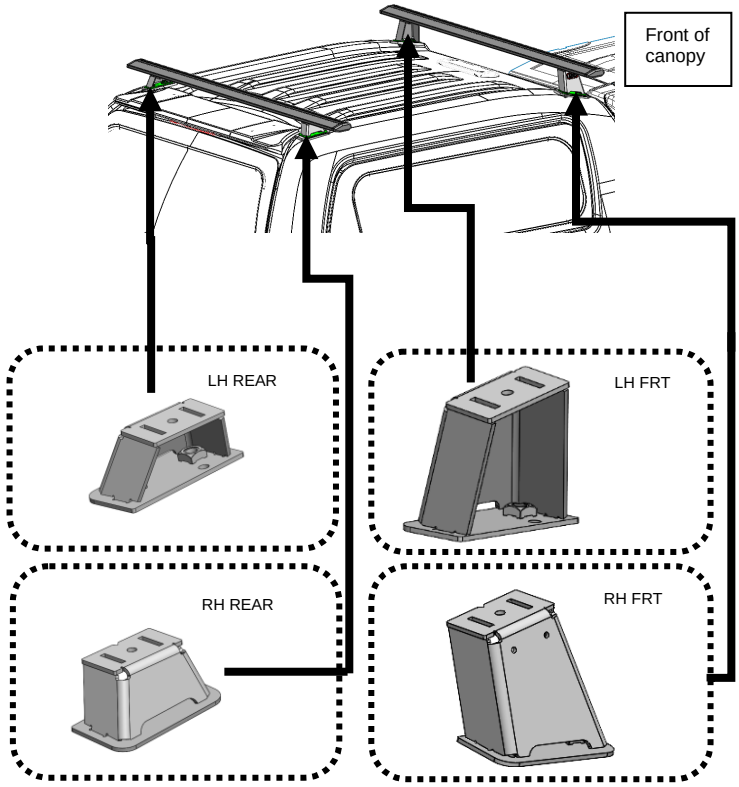
1.12) Apply neutral cure silicon to the stepped edge of the 8 spacer roof mounts (6250056).

1.13) Fit the spacers into the 8 holes in the roof of the canopy shell from the outside.

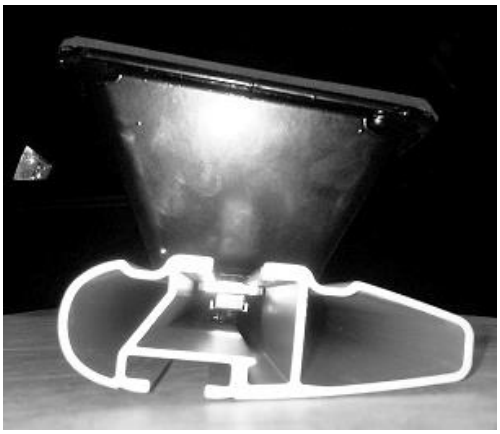
1.14) Clean away excess silicon using wax and grease remover**.**

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SECTION 2: PRE-FITTING THE PEDESTAL BRACKETS TO THE ROOF BARS.



2.1) Note the positions of the pedestal bracket types on the roof line of the canopy. **The "Front" pedestal brackets go to the front of the canopy with the longer side of the wedge facing forwards**. **The "Rear" pedestal brackets go to the rear** of the canopy with the longer side of the wedge pointing rearwards.





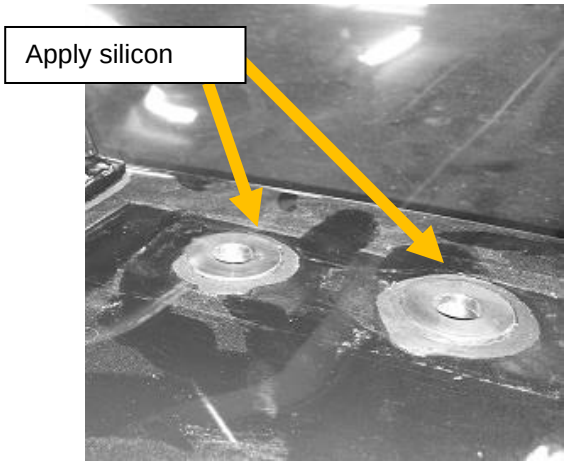
2.2) Slide the pedestal brackets with the solid face side outwards, into the roof bars so that the locking plate and cage nut assembly is slid inside the groove of the roof bars

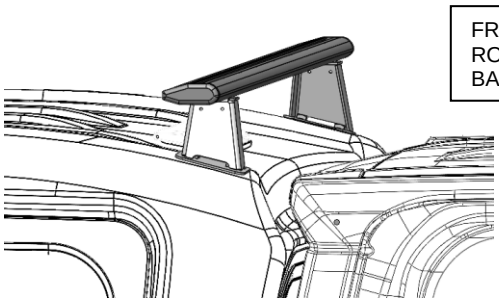
Hand tighten the M6 bolt.

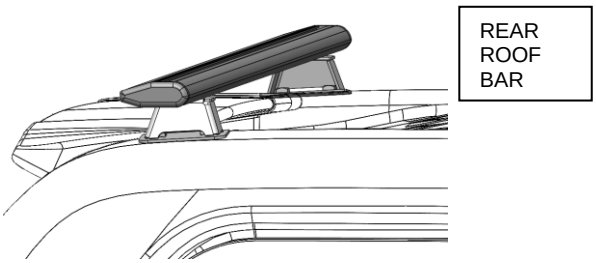
Repeat this for the opposite side of each of the roof bars.

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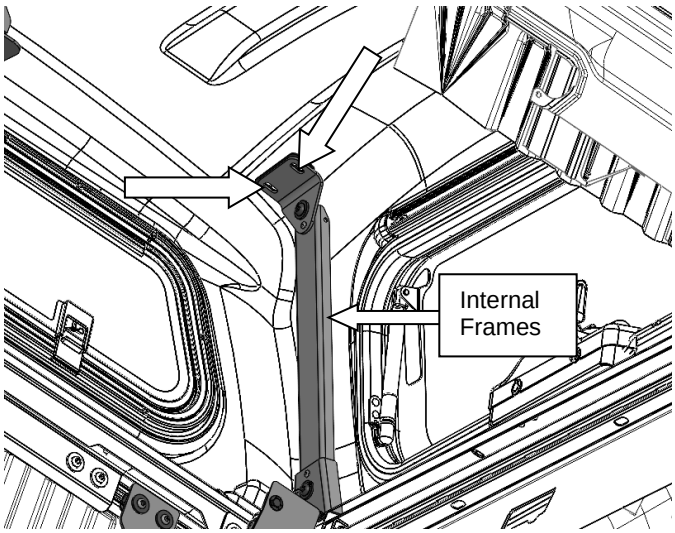
SECTION 3: FITTING THE ROOF BARS TO THE CANOPY





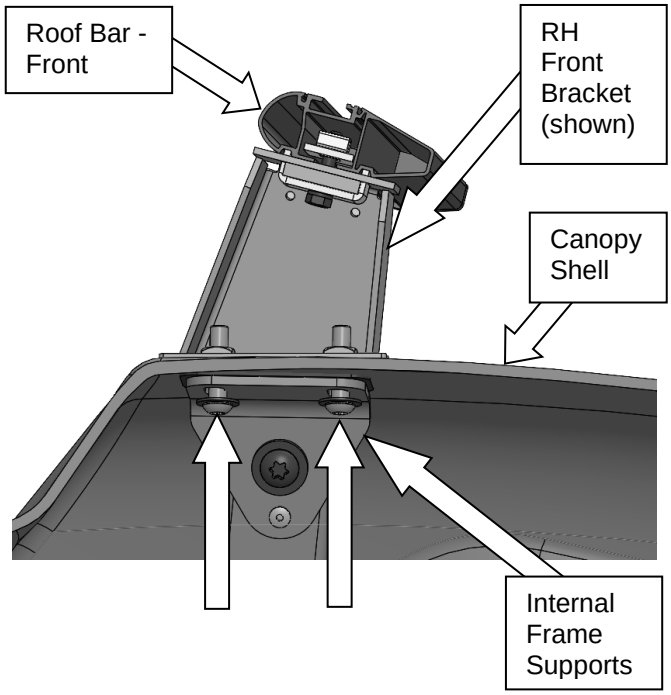


3.1) Sit the roof bars with pedestal brackets loosely fitted over the spacers on the outside of the canopy roof so the holes in the feet of the pedestal brackets line up to the holes in the canopy roof and the width of the roof bars is cantered.



3.2) Go inside the canopy. Using two M8x35mm Torx bolts (6151881) assembled with two flat washers M8x19x1.2mm (4581085), push the bolts through the holes in the internal frame brackets through the roof of the canopy shell and the foam seals on the bottom of the pedestal brackets. (8 places).

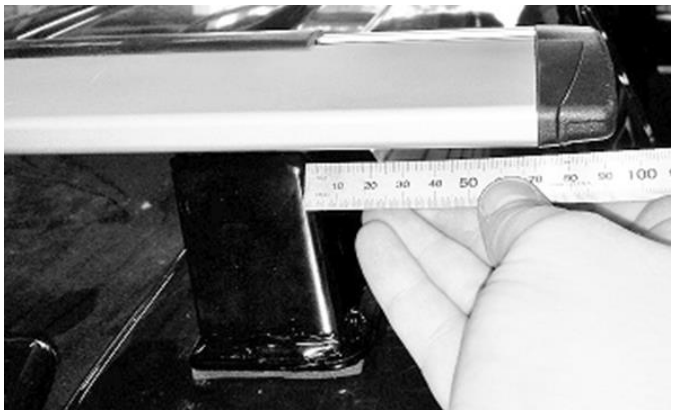
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3.3) A second person outside the canopy should help guide the bolts through piercing the foam tape pads on the pedestal brackets into the M8 weld nuts in the pedestal brackets. Loosely fasten and repeat for remaining three places.

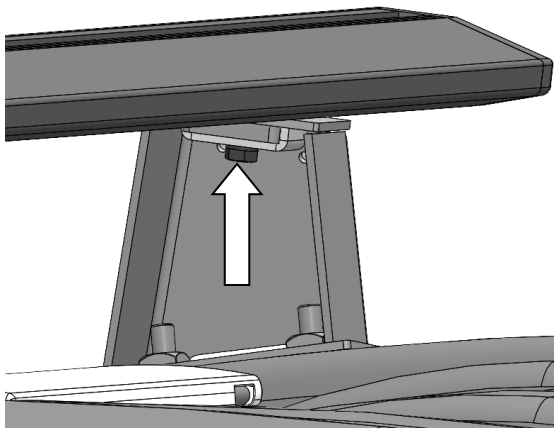
3.4) Go to the inside of the canopy. **Tighten all bolts** in eight places using a T40 Torx drive **to <u>22Nm.</u>**

<u>!! IMPORTANT !!</u> – Torque the bolts correctly, incorrect tightening may lead to water leaks or loosening of roof bars.



3.5) Fit the roof bars with all rubber trimmings on the top side of the roof bars that came in the roof cross bar kit.

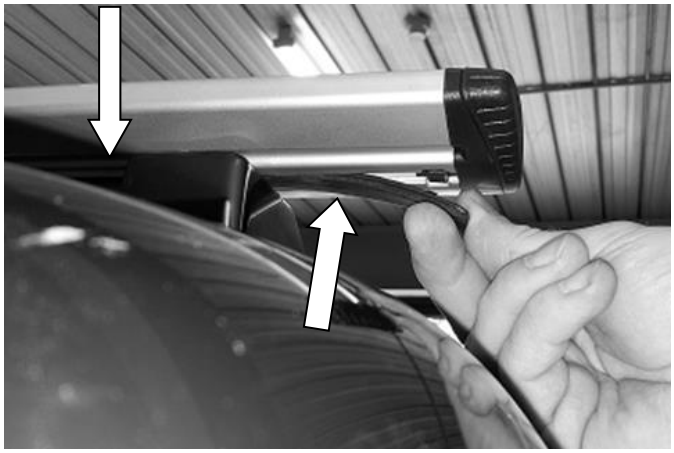
3.6) **<u>MEASURE</u>- Check the roof bars are aligned laterally across the canopy's roof either side.**



3.7) **Tighten the M6 bolts** on the underside of the roof bars to **<u>9Nm</u>**, where the channel pedestal brackets attach to the roof bars in all (4pls) locations.

<u>!! IMPORTANT !!</u> – Torque the bolts correctly, incorrect tightening may lead to loosening of roof bars.

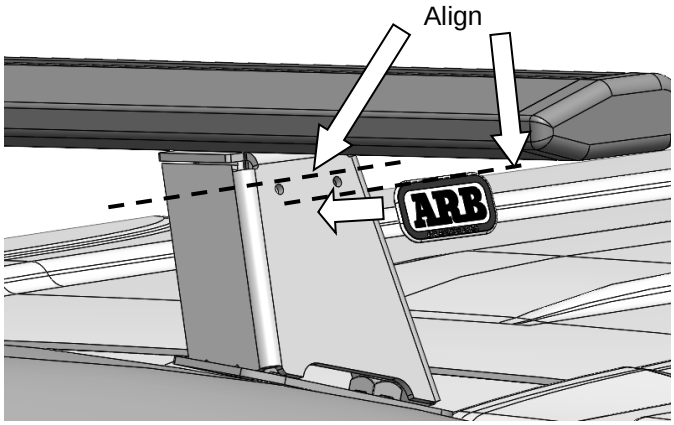
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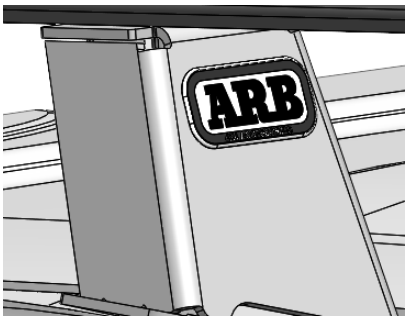


3.8) Contained in the roof bar kit are additional rubber extrusions that fit to the underside of the roof bars. Cut and fit these.

3.9) Ensure any sliding measurement guides on the underside of the Thule roof bars are slid up to the inside of the channel pedestal brackets

These steps <u>MUST</u>, must be done avoid wind noise.

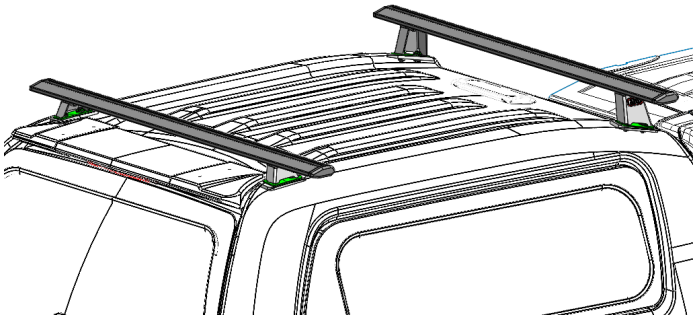




3.10) For the **front** roof bar pedestal brackets **<u>ONLY</u>**, clean the outer face of the brackets with isopropyl alcohol and apply the ARB domed badges. Ensure to align the top edge of the badge with the top edges of the holes in the pedestal bracket and central to the bracket face, fore and aft, as shown. This will ensure the badge sits level when viewed from the ground on the vehicle.

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SECTION 4: CHECK AND CLEAN UP:



4.1) **Check bolt torques of all bolts**.

4.2) Remove all swarf from the canopy and inside the vehicle's tub.

4.3) Open and close all windows, check for any resistance to opening from drag on latches.

If any lift up window or door latch adjustment is required, refer to the Ascent Canopy fitting instructions for adjustment procedure.

4.4) Perform leak test at mount points in the roof from outside using a garden hose.

4.5) **Fill in the last page of "Internal Frame" fitting instructions "Check List" and retain records at the dealer.**

4.6) **Fill in the second last page of "Internal Frame" fitting instructions "Owner's Manual Supplement" and give a copy to the customer.**

IT IS VERY IMPORTANT THIS IS GIVEN TO THE CUSTOMER AS IT CONTAINS IMPORTANT SAFETY INFORMATION IN RELATION TO ROOF BARS AND VEHICLE HANDLING.

4.7) **Place a copy of these fitting instructions in the vehicles owner's manual.**

4.8) **Continue fitment of internal frames as per the fitting instruction for the "Internal Frame" kit.**

If you have any queries regarding the installation of this product please contact the distributor from whom it was purchased, or alternatively the ARB office in your state.
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