

# ALTITUDE ROOF TOP TENT

## 804550 - Blade Bracket Mount Kit - TOYOTA LC300



## SAFETY

### NOTE THE FOLLOWING:

- ◆ Vehicle accessories that are not properly fitted can be dangerous.
- ◆ Please read these instructions carefully prior to installation and comply with the instructions at all times
- ◆ If in any doubt, please contact your nearest ARB state office or the stockist from whom it was purchased.
- ◆ Do not use this product for any vehicle make or model, other than those specified by ARB.
- ◆ This product or its fixing must not be modified in any way.
- ◆ The installation of this product may require the use of specialized tools and/or techniques
- ◆ It is recommended that this product is only installed by trained personnel
- ◆ Fitment can be undertaken with one person, however due to the weight of the Rooftop Tent, it is advised lifting aids are used to lift it into position.
- ◆ During installation, it is the duty of the installer to check the correct operation/clearance of all components
- ◆ Work safely always
- ◆ Unless otherwise instructed, tighten fasteners to the specified torque
- ◆ Check bolt torque after 500km & at regular service intervals
- ◆ These instructions are correct as of the publication date. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer

**Please provide a copy of this instruction to the customer**

## **ARB 4x4 ACCESSORIES**

Corporate Head Office

42-44 Garden St  
Kilsyth, Victoria  
AUSTRALIA 3137

Tel: +61 (3) 9761 6622  
Fax: +61 (3) 9761 6807

Australian enquiries  
North & South American enquiries  
Other international enquiries

sales@arb.com.au  
sales@arbusa.com  
exports@arb.com.au

**www.arb.com.au**

## **!! SAFETY NOTICE TO CUSTOMER!!**

- **DO NOT** drive with tent side locks unlocked. These **MUST** be Key locked while driving.
- This product **weighs 105kg (with ladder stored in roof)**, when fitted to this mounting system.
- **The roof bars on top of the tent are rated to 20Kg payload only. DO NOT exceed this payload. If the tent does not open it is likely to be because the payload has been exceeded. (Maximum weight of tent with payload is 125kg).**
- Be aware of the height that is added to your vehicle including that of any load as attached to the rooftop tent's roof bars. **Drive being aware of height limits and vehicle handling conditions.**
- Roof payload must be evenly distributed over the loading area with the centre of gravity kept as low as possible.
- Always tie down loads with quality straps. Check and retighten loads during the journey. **DO NOT use elastic straps.** These are not suitable for securing loads on this product.
- Large objects such as surfboards should preferably be stacked, instead of laid side by side. This reduces the aerodynamic lifting force. They should be strapped both front and rear.
- For carrying special items such as bicycles, skis and kayaks, specially designed carrier accessories are recommended to be used and fitted to the tent's roof bars.
- With the tent fitted, this will affect the vehicles cross wind sensitivity, cornering and braking characteristics. **Driving techniques should be altered to suit, by reducing corner speed and increasing braking distance and by driving at a speed safely depending on your control of the vehicle's handling conditions.**
- **DO NOT** make any modifications to locks on the tent or any tent mounting systems.
- ARB recommends only fitting ARB approved accessories, designed for your tent.

## **IMPORTANT:**

### **CARE AND USE OF YOUR ALTITUDE ROOFTOP TENT:**

Please refer to the "Owner's Manual for the Roof Top Tent" contained within the Fitting Kit of the Tent. (Part number 37801296).

### **SAFETY:**



ARB Blade bracket kits for the ARB Altitude Roof Top Tent **MUST** be fitted to the vehicle model as is specified.

## **TOOL LIST FOR FITMENT:**

Allen key set	13mm spanner x 1
Pen/pencil	Torx key socket drive set
Tape measure	Socket set
Torque wrench	Blanket or packaging foam materials to cover vehicle's roof
Plastic trim removal tool/ trim clip removal tool	

*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.*

### **HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:**

Protective eyewear		Hearing protection	
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## **FITTING THE ROOF TOP TENT WITH BLADE BRACKETS IS UNDERTAKEN IN 5 STAGES:**

1. Removal of Channel covers or Roof Bars on the vehicle.
2. Fitting mounting brackets to roof of the vehicle.
3. Fitting the blade brackets to the roof top tent.
4. Assemble Roof Top Tent to vehicle's roof.
5. Check and Clean up

**4 people (or use of a forklift with 2 people) are required to fit the tent to the vehicle's roof at step 4 of these instructions**






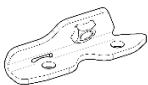


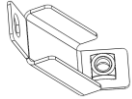

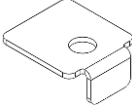
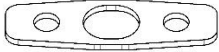
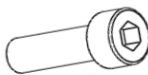
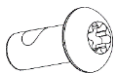


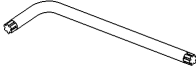
**!! IMPORTANT !! other than specifically specified in this instruction**

### FASTENER TORQUE SETTINGS:

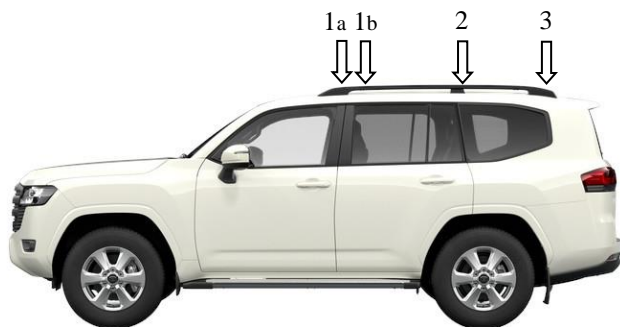
SIZE	Torque Nm	Torque lbft
M6	9Nm	7lbft
M8	22Nm	16lbft

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

## THE FITTING KIT CONTAINS:

	Part No	Image	Qty	Description
804550 MOUNT KIT	3755368R		1	RH - BRACKET MOUNT RAIL LC 300
	3755368L		1	LH - BRACKET MOUNT RAIL LC 300
	560PD063		2	CROSSWISE SUPPORT BRACE
	560PD073		1	FNT CRS BRKT RTT - LC300
	Part No	Image	Qty	Description
6178144 FITTING KIT	3753261R		2	RH - BRACKET BLADE MOUNT LC300 MID AND FORWARD POSITION
	3753261L		2	LH - BRACKET BLADE MOUNT LC300 MID AND FORWARD POSITION
	3753262R		1	RH - BRACKET BLADE MOUNT LC300 REAR POSITION
	3753262L		1	LH - BLADE BR MOUNT LC300 REAR POSITION
	561AQ067		2	BRACKET STAY MOUNT LC300 - TENT
	561AQ003		2	NUT PLT 20x25
	560PD069		4	SPACER TAB - TENT
	5848516		6	PACKER RUBBER LC300 55MM
	6151184		12	M8 SOCKET HEAD CAP SCREW Stainless Steel Nylon Patch
	6151924		18	M8 BUTTON HEAD SCREW Yellow Patch
	4584415		12	WASHER M8 Stainless Steel
	4581085		18	WASHER M8 Black
	6151934		1	TORX ALLEN KEY

## STEP 1: REMOVAL OF CHANNEL COVERS OR ROOF BARS



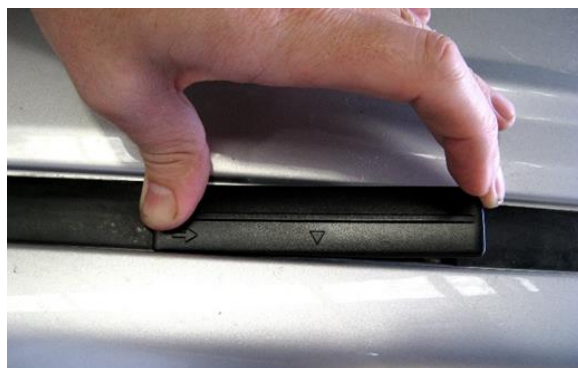
- 1.0) If fitted, remove factory roof rails (see below).  
If not fitted, remove all but 1b flat plastic covers from the vehicle's roof channels (see below).  
BASE RACK installation will use anchor points 1a, 2 and 3.  
Anchor point 1b should remain covered.



- 1.1) To remove factory roof rail end caps, unclip base from the bottom up by pulling outward with a panel remover, then slide out horizontally.

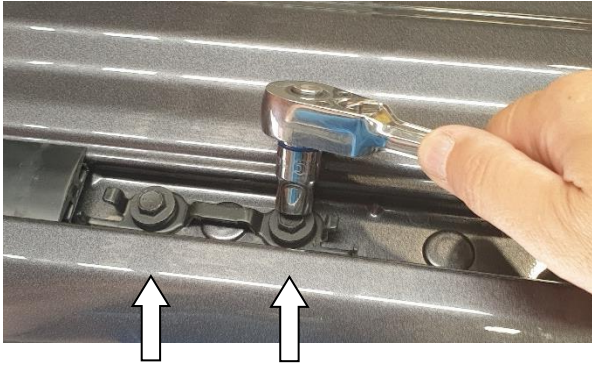


- 1.2) To remove factory roof rail middle caps, unclip by pulling from the back of the rail.  
You can then unscrew the central bolt (12mm socket).



- 1.3) To remove flat plastic covers, push in the direction of the arrows that are moulded into the caps and then lift the opposite end up.



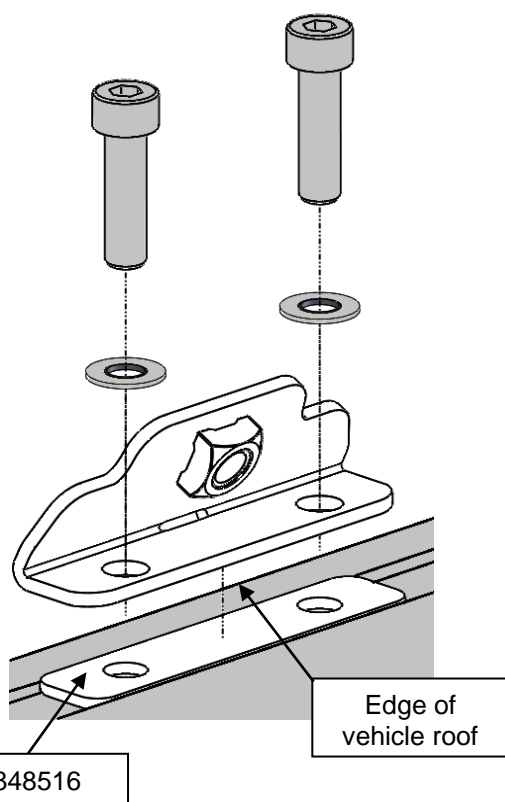
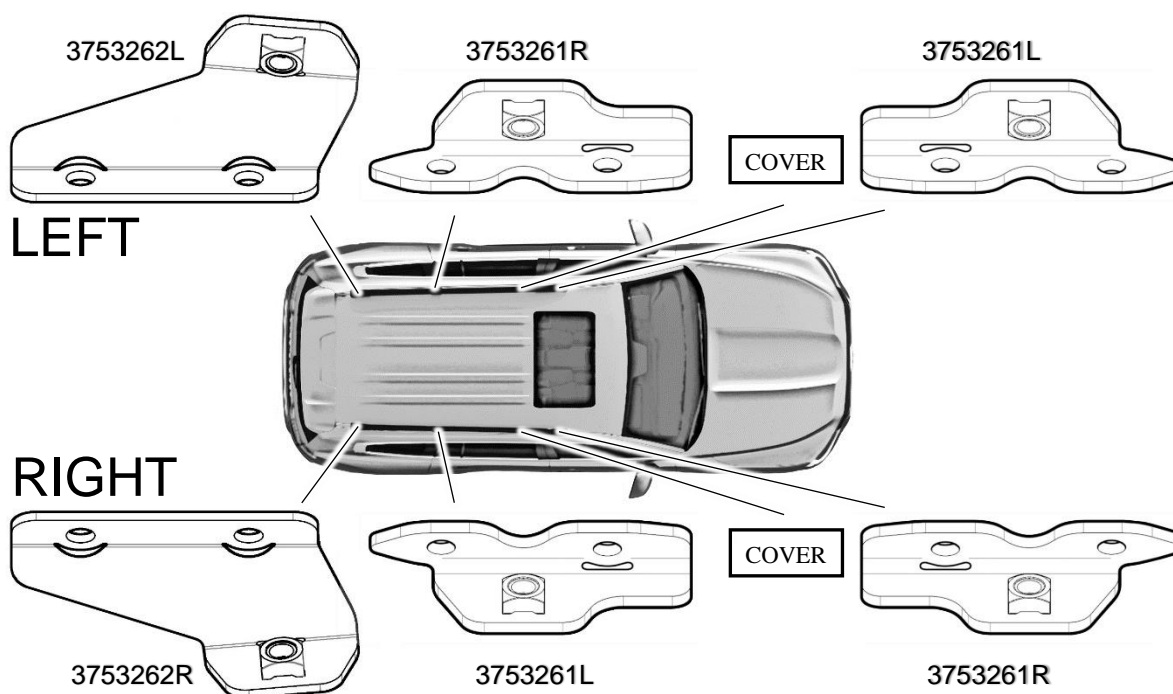


- 1.4) Remove all the brackets from the roof (except for anchor point 1b). Use 12mm socket for front and back factory roof rail brackets. Use 10mm socket for all other brackets. Discard plastic covers, rails, brackets & fasteners.



- 1.5) **IMPORTANT NOTE:** Anchors are sleeved with a thin plastic tube. When removing or installing brackets, be careful **NOT TO PUSH THE TUBES DOWN**. The anchors are connected to these tubes and will easily come loose with them.

## STEP 2 – FITTING MOUNTING BRACKETS TO ROOF



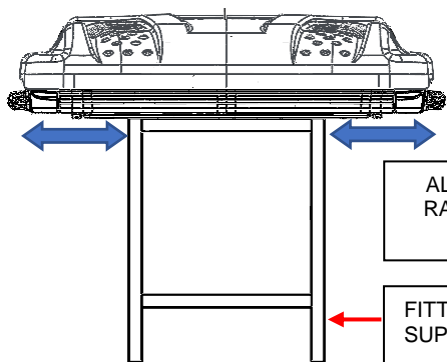
- 2.0) Place a rubber packer (5848516) carefully over each of the sets of holes in the roof channels. (From the previous section)
- 2.1) Position the mounting brackets following the mount brackets diagram, so that the weld nuts are facing towards the centre of the vehicle.
- 2.2) Attach each bracket to the roof mounting points using M8 socket head cap screws and M8 stainless steel washers. See image. **Note:** Mount Brackets are not meant to sit parallel to the car's roof channels. Align holes, not sides of brackets.

Tighten screws to specified torque

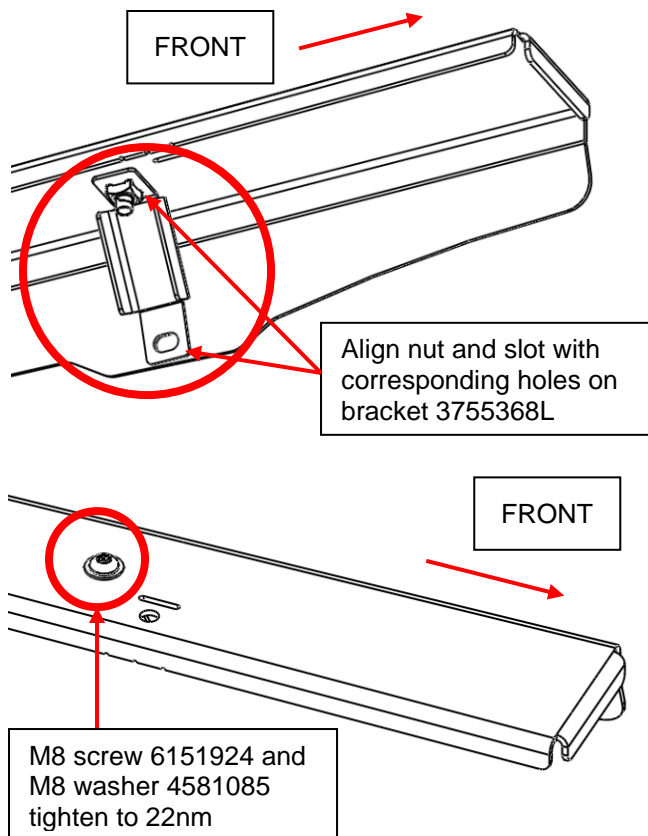


Torque M8 to 22Nm

### STEP 3 – FITTING THE BLADE BRACKETS TO THE ROOF TOP TENT



- 3.0) Place the tent on a clean flat surface. Provide protection to the bottom face of tent to avoid marking of surfaces. Make sure to have enough clearance at the bottom to reach the C channel rails on both sides, as attached to the underside of the tent.



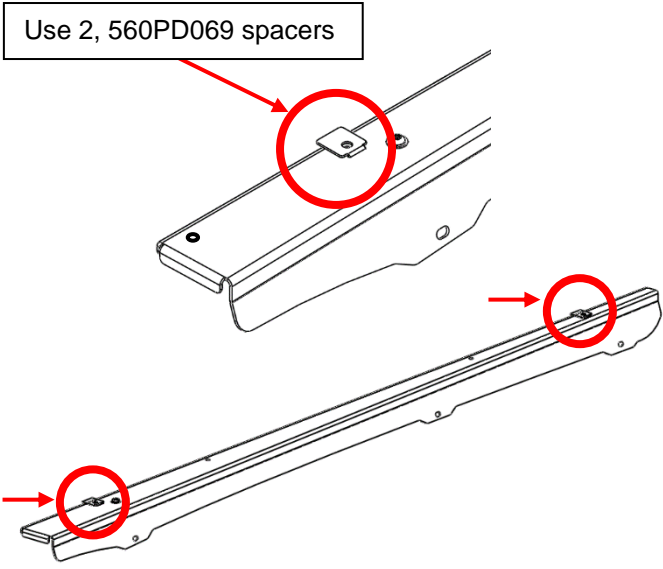
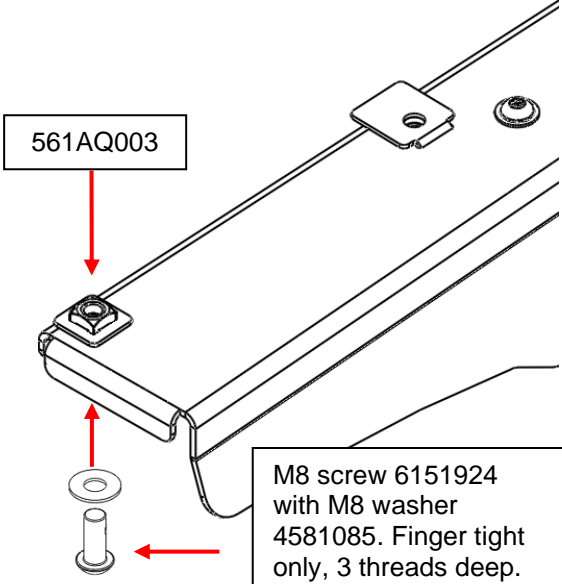
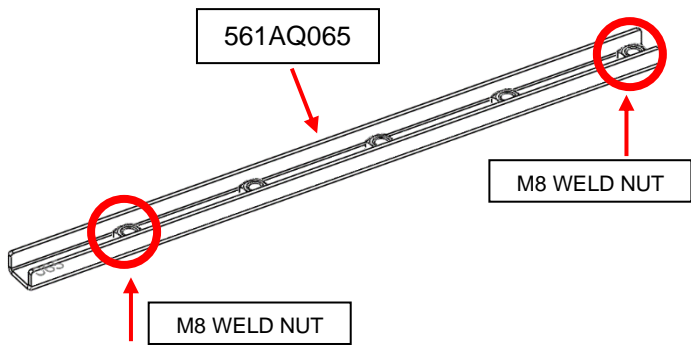
- 3.1) Take the stay bracket (561AQ067) and align M8 weld nut to underside of LH blade bracket (3755368L) round hole and lower slot with vertical slot at front of the bracket.

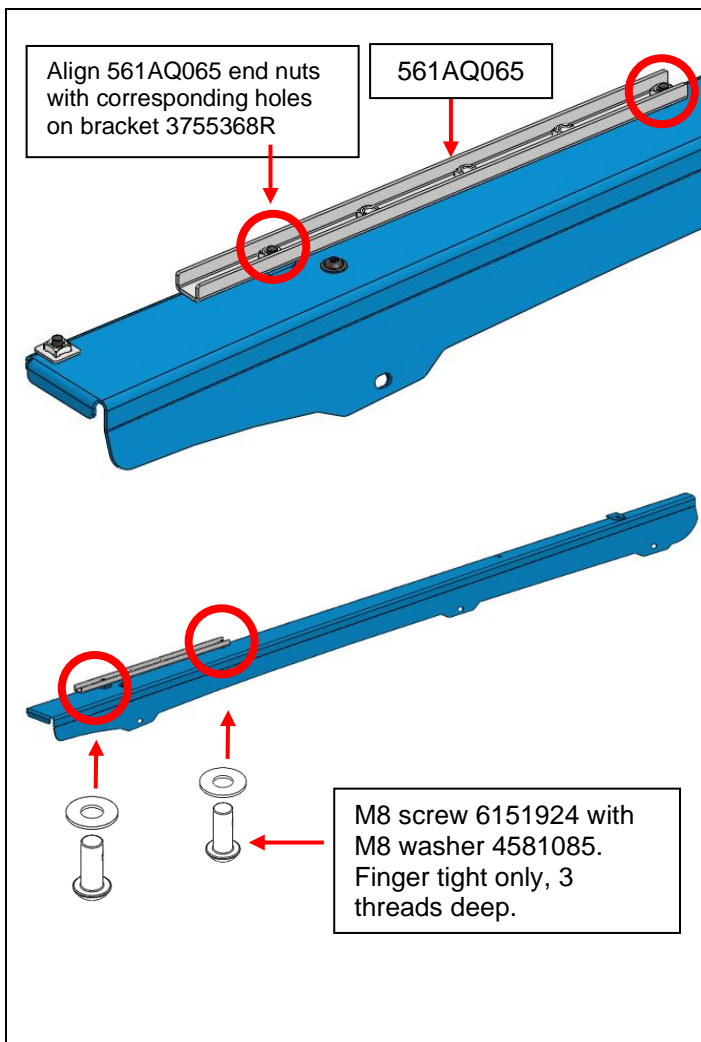


Take M8 screw 6151924 and M8 washer 4581085 and **tighten to 22Nm with**. Keep slots aligned when tightened.

**Do both sides.**



 <p>Use 2, 560PD069 spacers</p>	<p>3.2) Locate two, 560PD069 spacer tab brackets to the slots and hole to top surface of LH blade bracket (3755368L) each end.</p> <p><b>Do both sides.</b></p>
 <p>561AQ003</p> <p>M8 screw 6151924 with M8 washer 4581085. Finger tight only, 3 threads deep.</p>	<p>3.3) Locate M8 nut plate (561AQ003) to the front hole of the top surface of LH blade bracket (3755368L).</p> <p>Use M8 screw (6151924) with M8 washer (4581085) up through blade bracket and into the M8 weld nut plate (561AQ003).</p> <p><b>Only finger tighten screws to 3 threads deep.</b></p> <p><b>Assemble this also for the opposite RH blade bracket</b></p>
 <p>561AQ065</p> <p>M8 WELD NUT</p> <p>M8 WELD NUT</p>	<p>3.4) Take four roof bar U channel support brackets (561AQ065). <b><u>These parts are included in the fitting kit (6178105) that came with the roof top tent (802500) packed inside the rear door of the tent.</u></b></p>



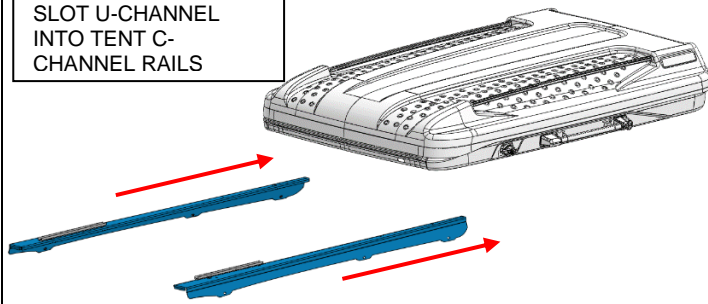
3.5) Align two M8 weld nuts of the roof bar support bracket (561AQ065) over the front two holes of the blade bracket (3755368L) with the longest end of the 561AQ065 bracket pointing forwards.

Use M8 screw (6151924) with M8 washer (4581085) up through blade bracket and into two M8 weld nuts of the roof bar support bracket (561AQ065) in two places.

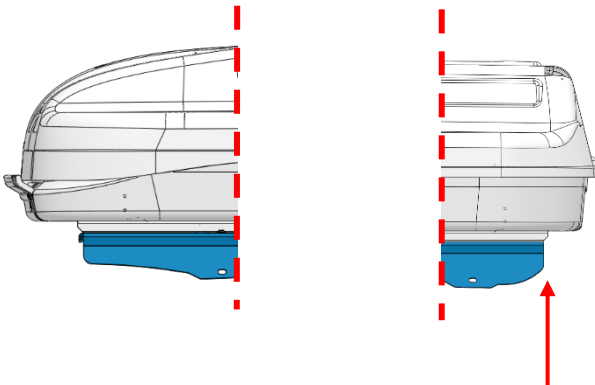
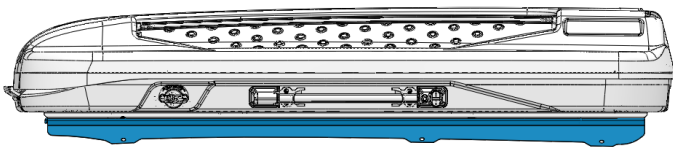
**Only finger tighten screws to 3 threads deep.**

**Do both blade brackets.**

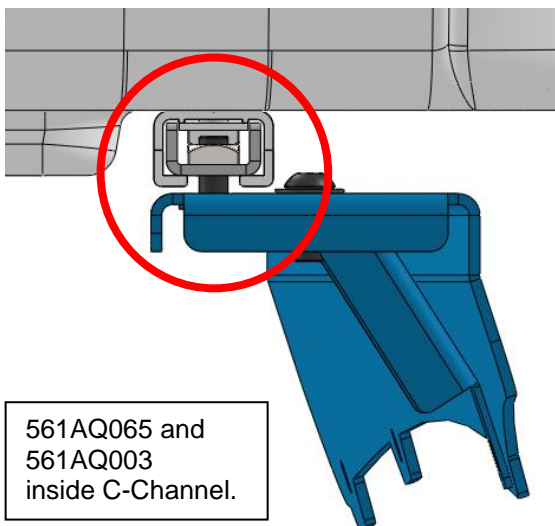
SLOT U-CHANNEL  
INTO TENT C-  
CHANNEL RAILS



FRONT OF TENT



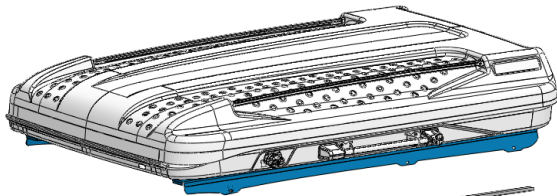
ALIGN BLADE BRACKETS TO REAR END OF C  
CHANNEL RAIL ATTACHED TO THE  
UNDERSIDE OF THE TENT



561AQ065 and  
561AQ003  
inside C-Channel.

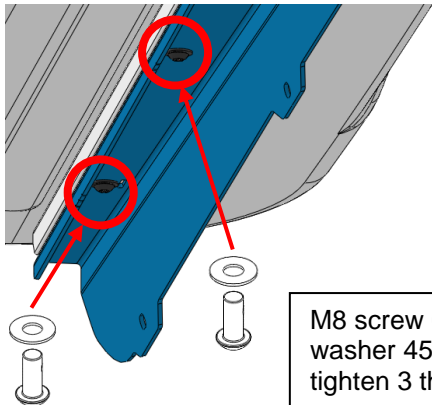
3.6) With the tent on supports, slide the roof bar support bracket (561AQ065) attached to the blade brackets into the C-Channel rails on the underside of the tent, including 561AQ003 as loosely fitted on the ends of the blade brackets.

**Do both blade brackets**



SLOT U-CHANNEL 561AQ065 INTO TENT C-CHANNEL RAILS FROM REAR. ALIGN WITH BLADE BRACKET HOLES

561AQ065



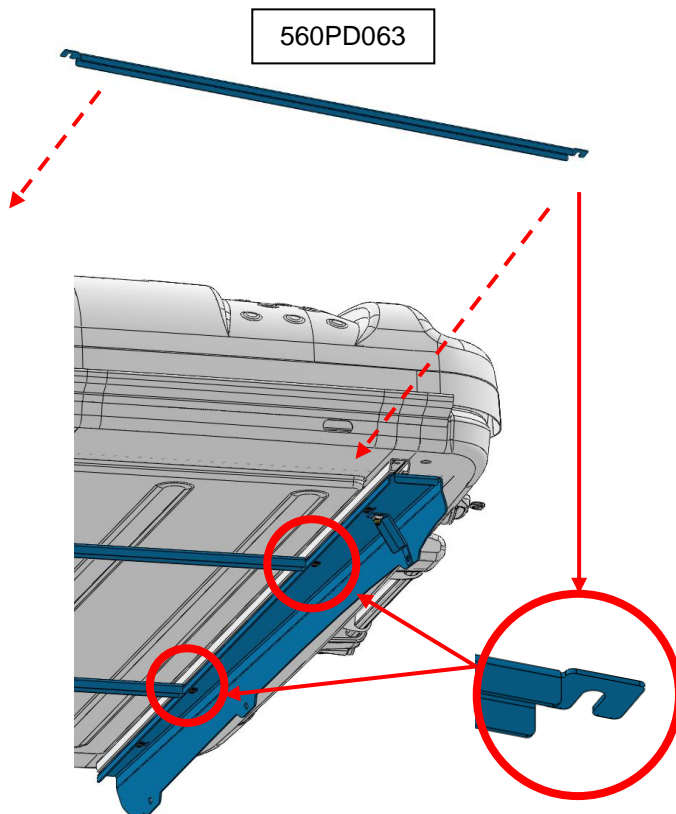
M8 screw 6151924 with M8 washer 4581085. Finger tighten 3 threads deep.

- 3.7) Slide two roof bar support brackets (561AQ065) into the rear of the C-Channel rails on the tent and align with corresponding holes in blade brackets.

Use M8 screw (6151924) with M8 washer (4581085) up through blade bracket into two M8 weld nuts of the roof bar support bracket (561AQ065).

**Only finger tighten screws 3 threads deep.**

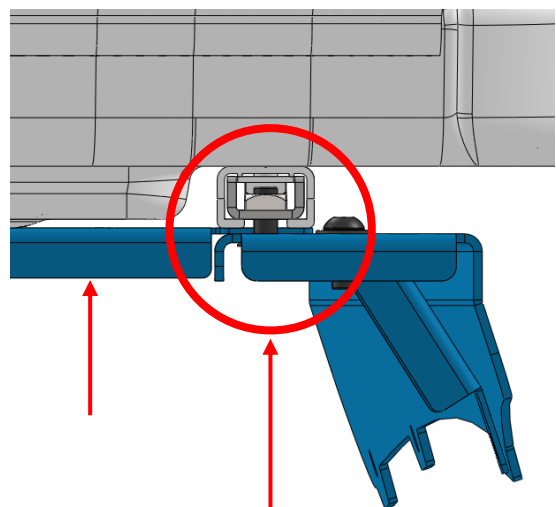
**Do both sides.**



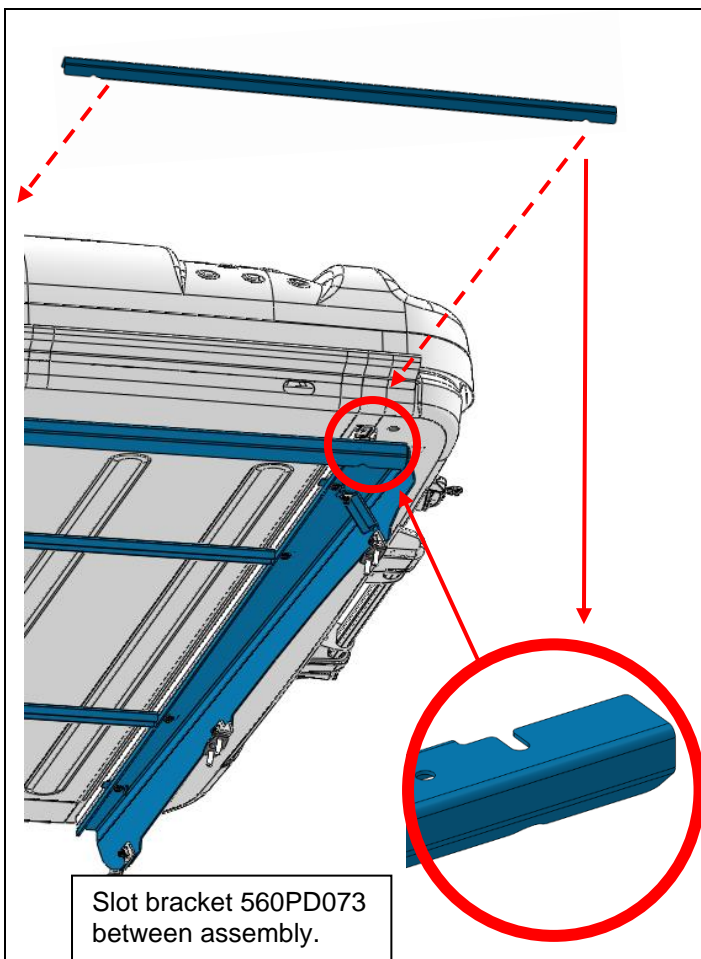
560PD063

- 3.8) Slide the crosswise support brace (560PD063) with the open slot between the C-channel rail on the tent and blade bracket at the two inner M8 screw locations each side.

Locate bracket 560PD063 in 2 places.



Slot bracket 560PD063 between assembly.

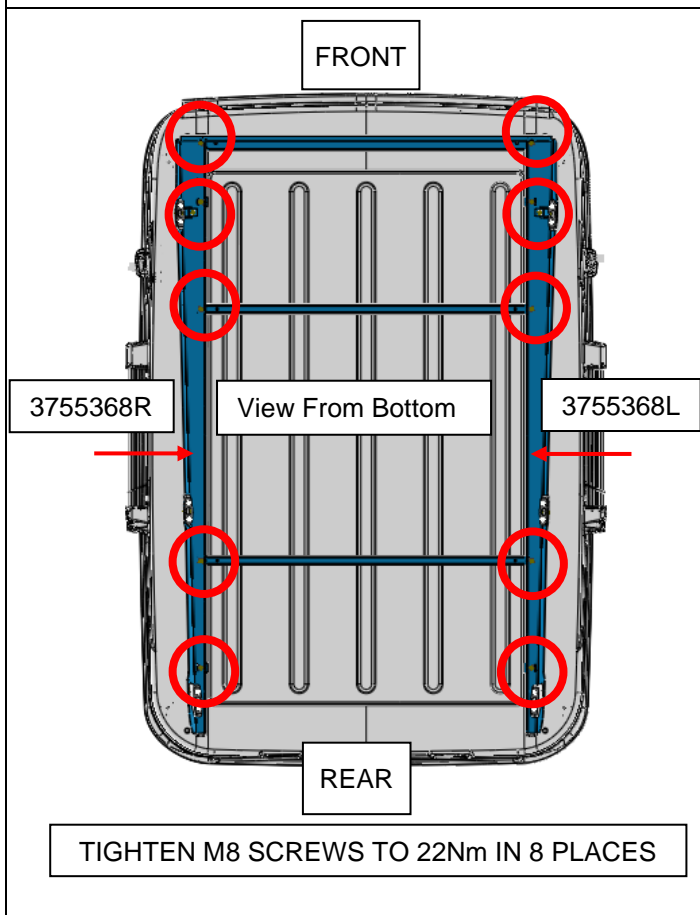


3.9) Slide the front crosswise support brace (560PD073) with the open slot between the C-channel rail on the tent and blade bracket at the front to engage around the bolts that retain the 561AQ003 nut plates at the front corners of the blade brackets.

Use M8 screw (6151924) with M8 washer (4581085) up through blade bracket into two M8 weld nuts of the nut plate (561AQ003).

**Only finger tighten screws 3 threads deep.**

**Do both sides.**



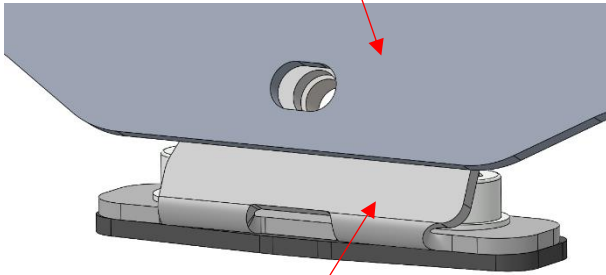
3.10) Ensure all blade brackets, braces and support stays are seated in their proper locations.



**Tighten all M8 screws to 22Nm in 10 places.**

## STEP 4 – ASSEMBLE ROOF TOP TENT TO VEHICLE

Blade bracket lower end as attached to tent

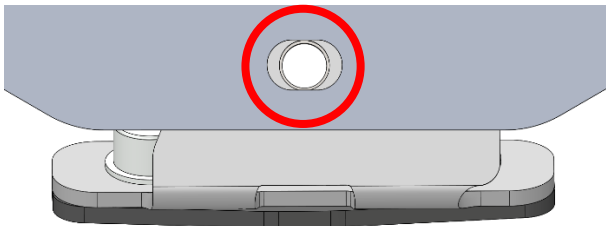


Mounting bracket as attached to vehicle

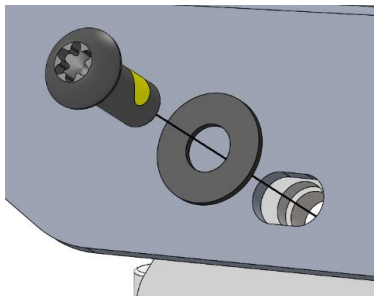
- 4.0) **Place protective material on roof of vehicle to reduce the risk of accidental damage when mounting the Roof Top Tent to the vehicle.**

With assistance of 4 people for lifting or 2 people with a forklift, carefully place the assembled tent with blade brackets on the vehicle so the inside of the blade brackets rests on the outside of the mounting brackets.

Once in place, the entire Roof Top Tent assembly should be clear of the vehicle roof. All mounting holes/slots need to be aligned to the bracket's attached to the vehicle's roof.



- 4.1) Confirm blade bracket holes are correctly aligned to vehicle.



- 4.2) Use the M8 Button Head Torx screws and M8 Black washers supplied to secure the blade brackets to the roof mounting brackets. Tighten all screw to the specified torque.



**Torque M8 screws to 22Nm**

## STEP 5 - CHECK AND CLEAN UP

- 5.0) Check Torques of all bolts are completed as in mentioned in these instructions.
- 5.1) **Make sure to Unlock the handles on the tent and open the handles.** Open and close the Roof Top Tent, to check operation is satisfactory once fitted.
- 5.2) After closing the Roof Top Tent **make sure to close and key lock the handles.**
- 5.3) **Place a copy of these fitting instructions in the vehicle owner's manual.**

**IT IS IMPORTANT THESE INSTRUCTIONS ARE GIVEN TO THE CUSTOMER AS IT CONTAINS IMPORTANT SAFETY INFORMATION AND ADVICE.**