

DUAL CAB CENTRAL LOCKING CANOPY

Ascent Canopy AC17C – VW Amarok (2023+ Vehicle Production Onwards)



FITTING KIT: 6178034 & FRONT HEADER RAIL: 668PD179

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

IMPORTANT:

- Vehicle bodies and vehicle specific installation can vary. Please read the following instructions as they refer to important information which could affect the quality of the final installation.
- It is advisable to have the canopy fitted by an authorised dealer.
- Most of the installation can be completed by one person (**however 4 people will be required to lift the canopy onto the vehicle**).



FITMENT:

- For Bed Liners and accessory Cargo Management Systems (with sliding tie down rail cleats), additional time for fitting is required including partial trimming of bed liners.
- All side tub rail plastic mouldings, Cabin Guards and Sports bars **must** be removed prior to canopy fitment. These components can be returned to the customer if required. The plastic cap on top of the tailgate is to remain assembled to the vehicle.
- **Specific to all Amarok models, fitting instruction 37801115 must be undertaken first to prepare the vehicle for canopy fitment. Vehicle variants with roll top tonneau covers should have the bed liner also removed. ARB Sport Guard liner could be purchased separately. For all vehicles without a roll top tonneau cover the canopy is compatible with the bed liner.**

CARE OF YOUR CANOPY:

Please refer to the “owner’s manual supplement” to be given to the purchaser on installation, as per the details referred to in the second last page of these fitting instructions.

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

<ul style="list-style-type: none">• Protective eyewear		<ul style="list-style-type: none">• Hearing protection	
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NOTE: ‘WARNING’ notes in the fitting procedure relate to OH&S situations. 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:

<ul style="list-style-type: none">• Torque Wrench 0-25Nm• Sockets 7, 8, 10 & 13mm sockets• Socket extension bar and driver• Spanners, ratchet type, 10 and 13mm.• Tape measure• T20, T30, T40, Torx Drive keys and bits for socket drives.• Electric or pneumatic drill• Electrical Tape• Silicon Caulking Gun• <u>Neutral cure</u> Clear Non-Acetic Silicon• Spray trigger bottle with soapy water	<ul style="list-style-type: none">• Phillips head screwdrivers• Engineer’s scribe• Flat blade screwdrivers• Side Cutters• Cleaning cloths / rags• Knife• Sharp Scissors• Deburring tool• Masking tape• 15mm hole saw
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FITTING THE CANOPY IS UNDERTAKEN THE FOLLOWING STAGES:

1. Remove any sports bars, cabin guards, side bed rail plastic caps and roll top tonneau covers. **(Please read and undertake fitting instruction part no 37801115 first).**
2. **Water sealing the tub.**
3. **Fitting the tub mounting brackets.**
4. **Fitting canopy wiring.**
5. **Fitting the canopy to the vehicle**
6. **Operational checks and adjustment options for doors and windows.**
7. **Recording of key code and owner’s manual supplement.**
8. **Check list and sign off.**

NOTE: DURING THE INSTALLATION IT IS NECESSARY TO DRILL SOME HOLES THROUGH THE VEHICLE’S TUB SHEET METAL. IT IS RECOMMENDED THAT THESE ARE DE-BURRED AND THE RUST INHIBITOR PROVIDED BE USED TO AVOID CORROSION. ANY SWARF LEFT OVER SHOULD BE CLEANED FROM TUB

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

REQUIRED SCREW TORQUES: M6=9Nm M8=20Nm


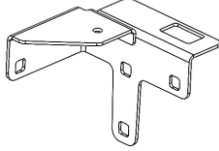
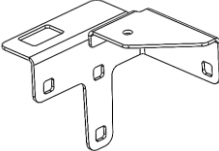
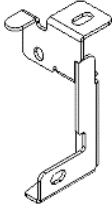
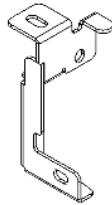
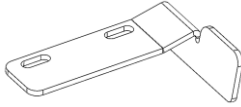
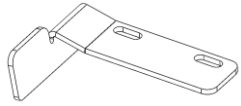
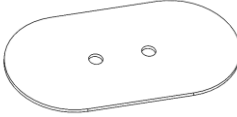


SCREW TORQUES: These must be adhered to avoid warranty issues and should be checked at vehicle service intervals.


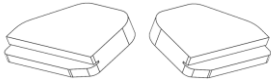
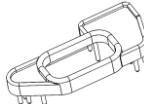
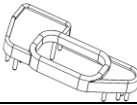

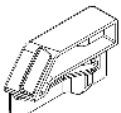
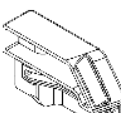
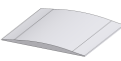








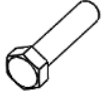

THE FITTING KIT CONTAINS:


Packed under the canopy are:

668PD179 Front head board rail

6178034 contains the main hardware for mounting the canopy.

Kit No	Part No	Picture	Qty	Description
1). FRONT HEAD BOARD RAIL	668PD179		1	FRONT MOUNT RAIL FOR FRONT OF TUB
2). 6178034 MAIN CANOPY HARDWARE KIT	668PD176R		1	BRACKET- RIGHT HAND - FRONT TUB CORNER MNT
	668PD176L		1	BRACKET- LEFT HAND - FRONT TUB CORNER MNT
	668PD157R		1	BRACKET- RIGHT HAND - REAR TUB MNT
	668PD157L		1	BRACKET- LEFT HAND - REAR TUB MNT
	668PD175R		1	BRACKET- RIGHT HAND - REAR SEAL TUB MNT
	668PD175L		1	BRACKET- LEFT HAND - REAR SEAL TUB MNT
	668PD180		2	BRACKET- LOWER INNER FRONT TUB CORNER SEALING
	668AQ034		2	BRACKET- LOWER OUTER FRONT TUB CORNER SEALING
	668PB038		1 PAIR	SEAL LOWER FRONT TUB CORNERS


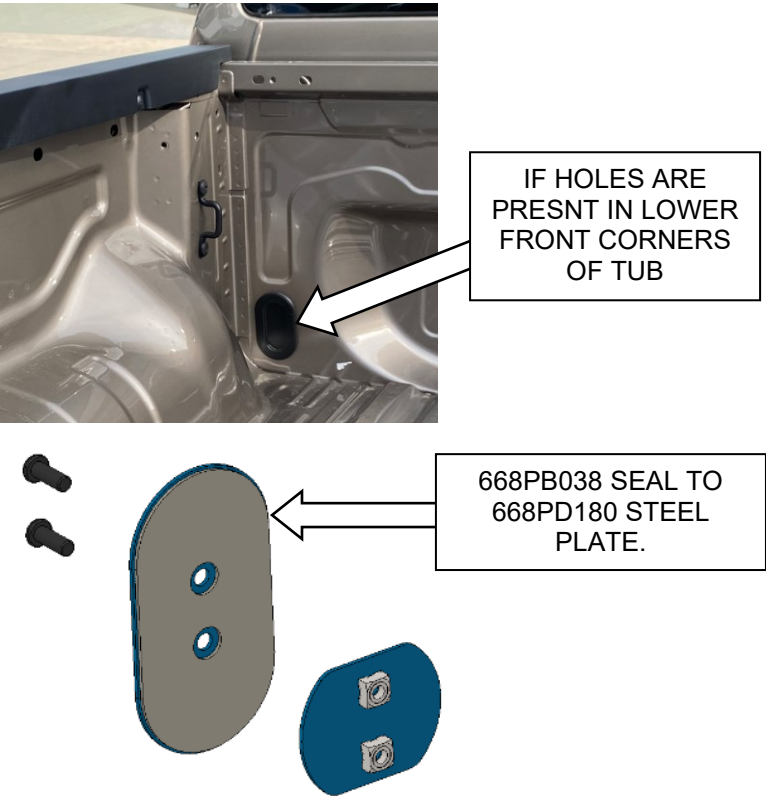
6602018		6	ALCOHOL WIPES
668PB033		1 PAIR	TUB FRONT CORNER SEALS - PAIR OF
668PE051R		2	RIGHT HAND SPACER LOCATOR TUB RAIL
668PE051L		2	LEFT HAND SPACER LOCATOR TUB RAIL
668PD151		6	10MM THICK SPACERS-TUB RAIL
668PE060R		1	MLD-RIGHT HAND SEAL TUB RAIL REAR
668PE060L		1	MLD-LEFT HAND SEAL TUB RAIL REAR
668PM005		1 PAIR	FRONT TUB CORNER SEAL BRIDGE
665037		2	ROLL- CLEAR TAILGATE PROTECTION TAPE 30mm WIDE
665076		2	BUMPON STRIP OF 5 PIECES
668PB006		4 PAIR	PAIR OF DIE CUT BLACK STICKERS
6152128		6	FIR TREE CLIP FOR 6MM HOLE
4584435		6	RUBBER FLAT WASHER OD19X6.5IDX0.8MM- BLACK
6151881		6	M8 x 35 TORX PAN HEAD SCREW – BLACK (T40)
6151625		10	M8 x 1 x 25 TORX PAN HEAD SCREW – BLACK (T40)
6151623		4	M6 x 16 TORX PAN HEAD SCREW – BLACK (T30)
6151681		2	SCREW HXHD M8 x 35 BLACK
6152008		2	HEX FLANGE HEAD BOLT M6 x 25 - BLACK

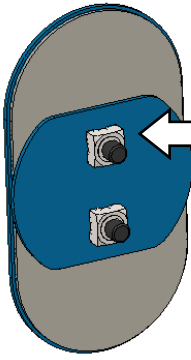
6253421		4	SPACER 20 OD x 13.5mm THICK
4581082		4	M6 x 20OD x 1.2mm FLAT WASHER BLACK
4584378		4	M6 x 16OD x 1.2mm FLAT WASHER BLACK
4581085		12	M8 x 19 OD x 1.2mm FLAT WASHER BLACK
4581303		12	M8 x 25.4 OD x 3 WASHER -- BLACK
6151212		4	M8 x 1.25 BLACK NYLOC NUT
6151223		6	M6 x 1 BLACK NYLOC NUT
6151173		1	M6 x 1 WIZZLOCK FLANGE NUT – BLACK
668PB037		1 PAIR	PAIR OF FOAM TAPE DIE CUTS – REAR TUB BRACKET CORNER SEALS- SELF ADHESIVE
665044		1	PRIMER PENCIL STICK
668PJ031		1	ELECTRICAL LOOM - VEHICLE HARNESS
668PB015		2	FOAM ANTI RATTLE 30mmx150mm STRIPS
668PJ015		1	ELECTRICAL RELAY BOX
6821293		1	CABLE TIE BASE
180302		23	CABLE TIES – 200mm
3199779		1	GRINDING PLATE (DISPOSABLE)
668AQ026		2	NUT PLATE MID MOUNT BRACKET
668PB018		1	ROLL OF FOAM TAPE 26x2x1650mm

SECTION 1: REMOVAL OF SPORTS BARS, BED RAIL PLASTIC CAPS, CABIN GUARDS AND ROLL TOP TONNEAU COVERS

- 1.1) Remove any sports bars fitted. Remove plastic side mounted tub rail bed caps on the vehicle tub (!! Important !!- squeeze the plastic clips under the lip of the tub with long nose pliers before unclipping them to avoid distorting the sheet metal). Undertake fitting instruction part number: 37801115 for vehicle preparation first. For vehicles fitted with roll top tonneau covers the bedliner should also be removed.
- 1.2) The sports bar or roll top tonneau cover will need to be removed if fitted and returned to the customer if requested to do so.
- 1.3) Cargo Management System (CMS) side rail track accessory hardware does not need to be removed, refer to steps in this fitting instruction as partial hardware removal is required.
- 1.4) Bed liners do not require removal for vehicle variants that do not have roll top tonneau covers.

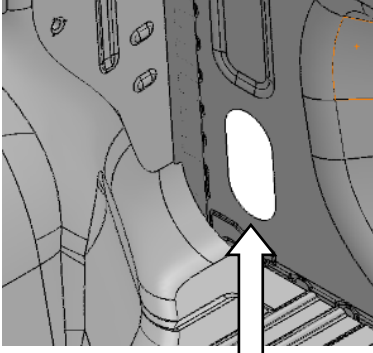
SECTION 2: WATER SEALING THE TUB

	<p>2.0) Place tailgate in down position.</p>
 <p>IF HOLES ARE PRESENT IN LOWER FRONT CORNERS OF TUB</p> <p>668PB038 SEAL TO 668PD180 STEEL PLATE.</p>	<p>2.1) If no lower corner seals are fitted in the front of the tub, undertake steps 2.1 to 2.3: Take (668PB038) lower front tub seal foam pads and adhere them to center of lower inner front corner sealing brackets (668PD180), to create a pair of assembled brackets.</p>

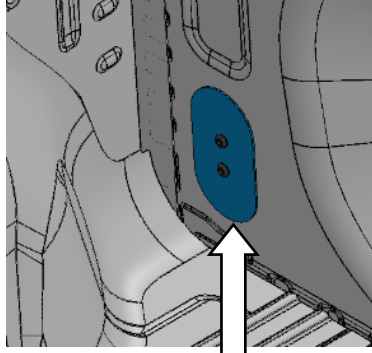


668AQ034 CLAMP PLATE ,
6151623 TWO M6 SCREWS
THROUGH 668PD180
INNER PLATE.
CREATE 2 ASSEMBLIES.

2.2) Take the lower outer front tub corners sealing bracket, clamp plate (668AQ034) and use two M6x16mm torx head screws (6151623) to loosely assemble through (668PD180 and 668BP038) inner seal bracket assemblies.



LOCATE TWO HOLES TO
LOWER CORNER TO
FRONT OF TUB.



LOCATE SEAL ASSEMBLY
TO CENTER OF HOLE AND
TIGHTEN SCREW TO 6 NM.

2.3) From inside the vehicle's tub, angle the edge of the clamp plate (668AQ034) through the hole located in the lower front corner panels of tub. Locate the clamp plate assembly to centre of oblong hole. **Tighten both T30 torx screws to 6 Nm.**

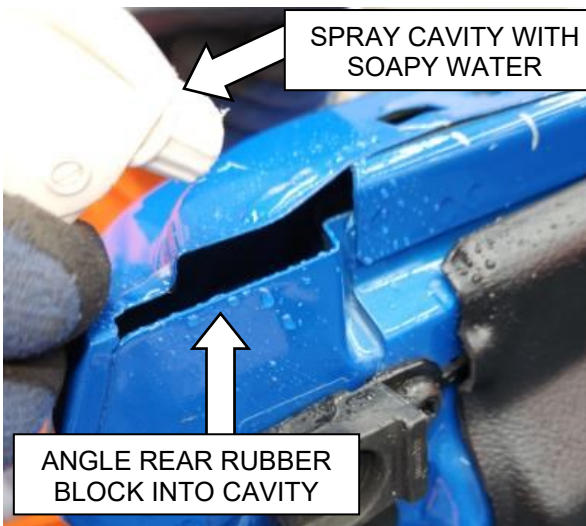
Repeat on the opposite hand of the tub.



SPRAY 668PE060R
WITH SOAPY WATER

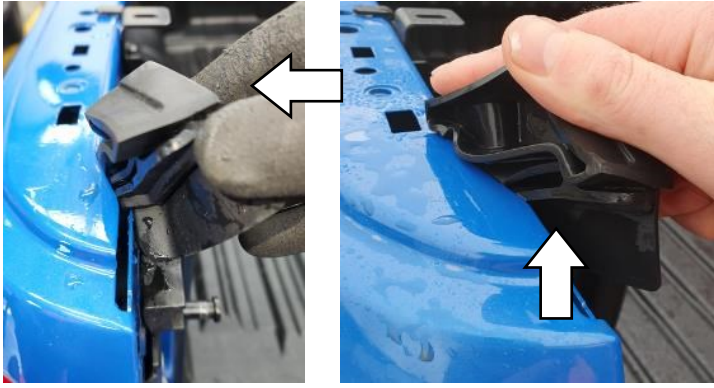
2.4) Take rear tub rail sealing block (668PE060R) and spray with soapy water.

2.5) Spray the rear corner hole in the top tub rail at the back of the vehicle with soapy water.



SPRAY CAVITY WITH
SOAPY WATER

ANGLE REAR RUBBER
BLOCK INTO CAVITY



2.6) Angle back the rear corner of the rubber clipping lip feature of the rubber block into the hole in the tub and slide the recess over sheet metal edge.



2.7) Work the clipping lip of rubber block under the tub sheet metal top skin, by pushing the block back and forwards and pushing it inwards.

2.8) Check the clipping lip is fully engaged in cavity by lifting the side of the block up and checking.

WORK RUBBER BLOCK UNDER TUB SHEET METAL

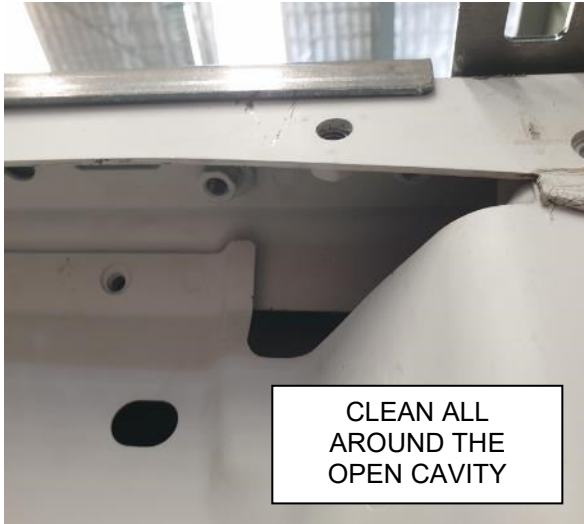
CHECK CLIPPING LIP IS UNDER TUB SHEET METAL



2.9) Make sure rubber block is sitting neatly in cavity. Bottom face of block should be sitting flat on the tub lip.

Do both sides, using 668PE060L for the left-hand side.

CHECK BLOCK IS SITTING FLAT AND NEAT IN PLACE ON THE REAR TAILGATE END OF THE SIDE TUB RAILS



2.10) For clarity, the Cargo Management System (CMS) side track rails has been removed from the tub. Locate the open cavity under the upper front left-hand corner of the tub and clean with an alcohol wipe (6602018).



2.11) Take the left-hand foam block as per opposite from the pair of 668PB033.



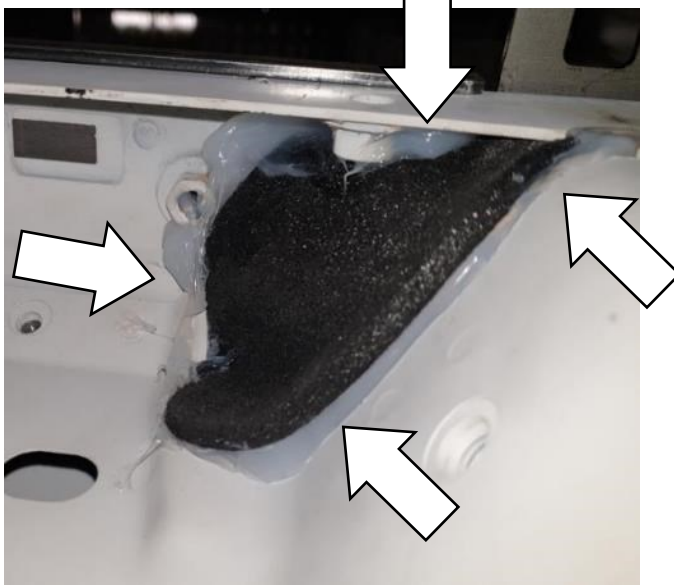
2.12) With the grooved recess edge facing down, push the foam block up into cavity opening with recessed edge, with its short leg side to clip over the tub sheet metal edge on the front pillar cavity of the tub.



2.13) The foam sealing block is to be an interference fit with the underside of the side tub rail and fit firmly in place as shown. Position the top edge of the foam block to avoid covering weld nuts in the tub.

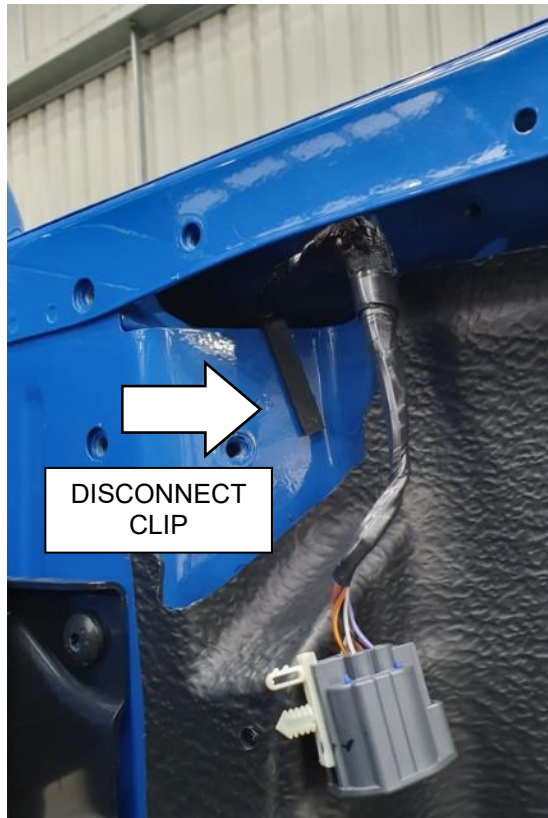


2.12) Use neutral cure non-acetic silicon to fill gaps and seal edges all around foam block and tub.



2.13) Silicon seal all around foam block as per picture.

Repeat steps 2.11 to 2.13 for sealing the tub using the right-hand tub corner sealing foam block.



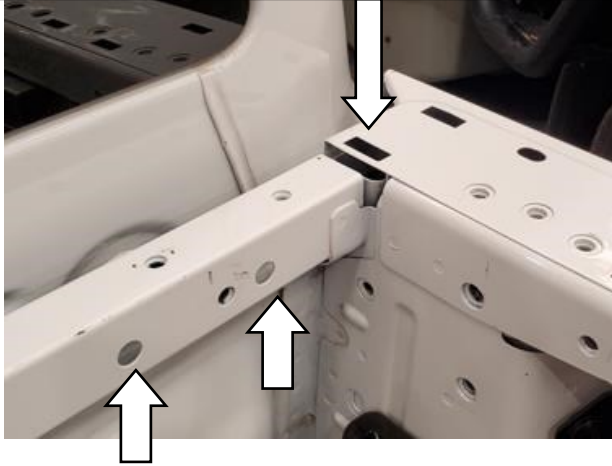
- 2.14) On the right-hand side locate the electrical connector (only where fitted on vehicles with roll top tonneau covers). Remove the clipping strap from the tub. Wrap the end of connector with electrical tape to seal it off on the open connection side and push the connector back through the open cavity hole and into the void of the front corner pillar.



CLEAN ALL AROUND
TOP OF TUB

2.15) Use alcohol wipes (6602018) to clean the side top rails of the tub and front tub rail.

PLACE BLACK STICKERS OVER RECTANGULAR FRONT SIDE RAIL CORNER INNER HOLE AND TWO HOLES (WITHOUT NUTS) ON THE FRONT VERTICAL FACE OF TUB PER SIDE



ONE STICKER OVER CENTRE HOLE IN VERTICAL FACE OF FRONT TUB RAIL



2.16) Ensure the sheet metal work in the front corners of the tub and along the 6 holes on the outer edges of the tub are not distorted by previously removing side bed rail cap covers. Straighten this if required to get a flat level surface.

Place 7 black sticker squares in total (668PB006) (which come as a pair of squares per backing sheet), over the holes in the front of the tub as shown.

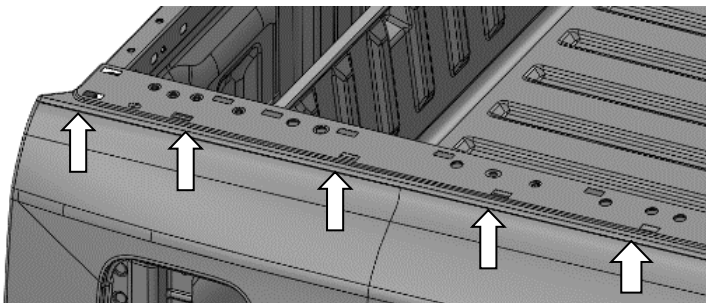


2.17) Use 1 roll of clear 30mm wide tape (665037) per side and **cover the first 5 rectangular holes** from the front along the outside edge of the side tub rails.

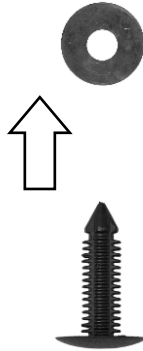
2.18) Cut the tape after 5th hole is covered and retain what is left on each roll for later use.

2.19) **Use firm pressure (or a roller)** to apply the tape ensuring it seals to protect against water entry around each of the rectangular holes.

Do both sides of the top tub rails.



6 HOLES UNDER THE FRONT TUB RAIL TO BE SEALED IF BEDLINER IS REMOVED



2.20) Under the front tub rail, the angled face has 6 holes **if a bedliner is removed**. The 6 holes in the tub need to be sealed.
Over 6 fir tree clips (6152128) assemble rubber washers (4584435) under the head of the fir tree clips. Then install them into the vehicle's front tub rail.



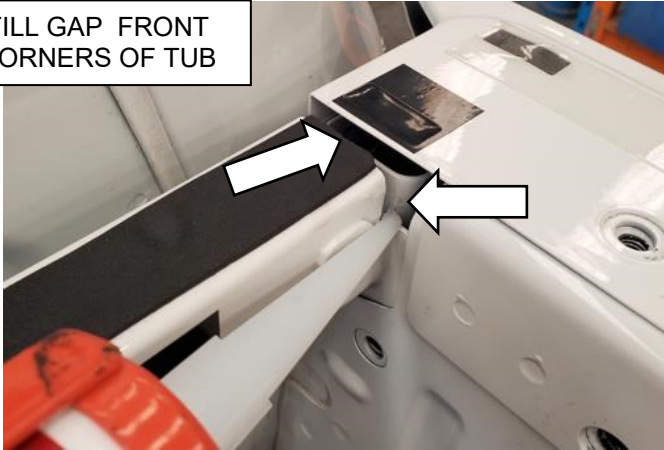
CUT ONE END TO LENGTH TO BUTT UP TO SIDE TUB

2.21) Across the front tub rail, assemble adhesive foam tape (668PB018) and mate the starting edge tightly against the side tub rail and run it along top face of the tub front rail, centrally. Ensure the holes in the upper surface of the front tub rail are covered and well-sealed by the foam tape. Cut the tape to length and mate the end up firmly to the side tub rail on the opposite side.

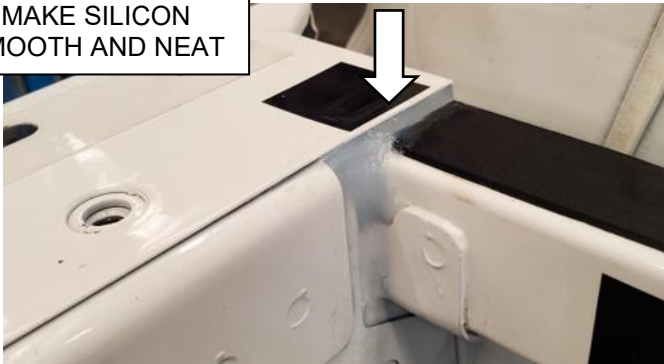
FILL GAP UNDER
FRONT TUB RAIL
AND FRONT
CORNER HOLES



FILL GAP FRONT
CORNERS OF TUB



MAKE SILICON
SMOOTH AND NEAT



2.22) Spray the tub with a water film. Apply clear neutral cure silicon to fill the gap under the front corner of the front tub rail and front corner holes on both sides to obtain a water seal



2.23) Use clear neutral cure silicon to fill the gap between the tubs' front rail and side tub rails.

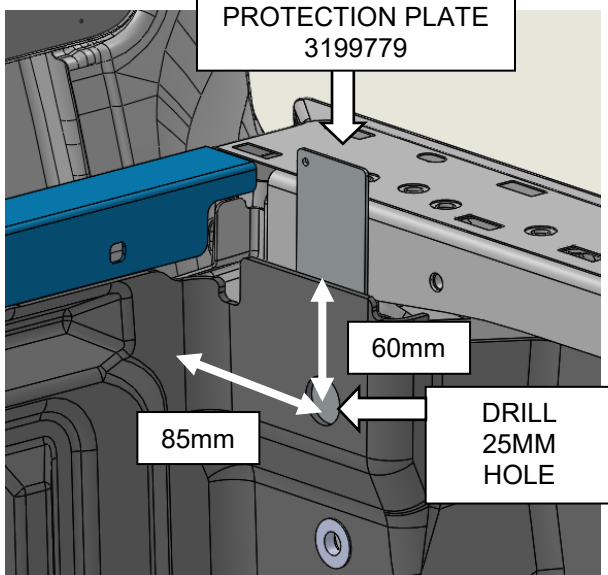
Make smooth and neat, wipe off any excess and allow it 10mins to skin cure.

Do both sides of the tub.

!! IMPORTANT !!
The above steps are imperative to ensure the tub is water sealed in the front tub corners.

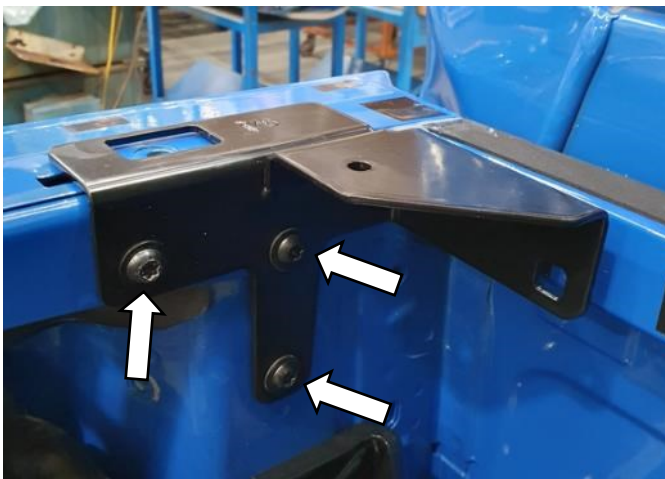
SECTION 3: FITTING THE CANOPY'S TUB MOUNTING BRACKET SYSTEM

<p>PLACE TWO SILICON BUMPONS</p> 	<p>3.0) Take front tub corner mounting brackets (668PD176R/L) and place two bumpon clear circular pads (665076) to the tags on the brackets as shown.</p>
 <p>PLACE ONE SILICON BUMPON</p>	<p>3.1) Take rear tub mounting brackets (668PD157R/L) and place one bumpon (665076) to the tag on the brackets as shown.</p>



3.2) **If the tub is already fitted with a bed liner**, a 25mm diameter hole will need to be drilled through the bedliner in the front corners both sides. Measure 60mm down from top edge of the bed liner and 85mm from front inner face of liner. Place the steel protection plate (3199779) behind the liner taped with masking tape to the sheet metal at the top, to protect tub from the drill. This hole will be used to gain access to the M8 threaded hole behind to allow fitting of the front corner bracket in the next step.

Do both sides of the bed liner.



3.3) Locate the front corner mounting brackets (668PD176L) to the front corners of tub.

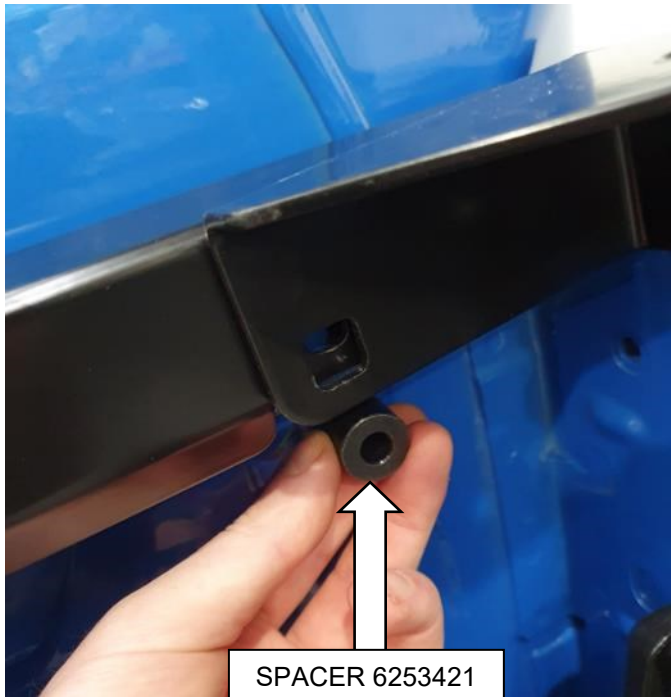
Per bracket, take three M8x25mm Torx screws (6151625), with M8x19x1.2 washers (4581085) and loosely tighten these through the bracket to the tub at the side.

Do both sides of the vehicle.



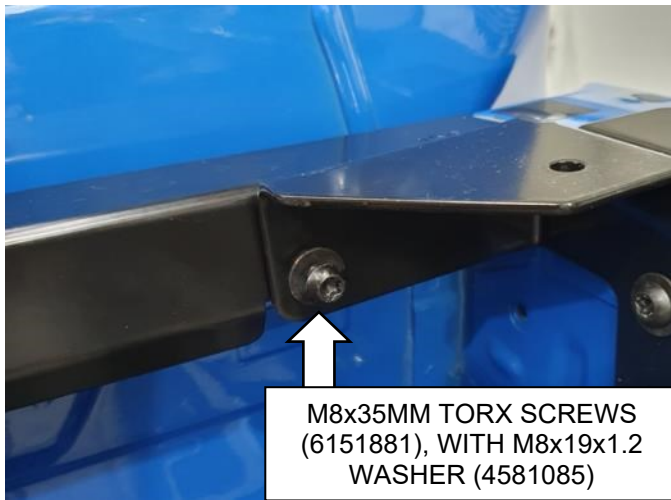
3.4) Place the front head board mount rail bracket (668PD179) over the front tub rail on the vehicle. Align the bracket to center and align it with the with threaded holes in the front face of the tub on each side.

Ensure there is an even gap between the ends of the bracket to the side rails of the tub.



SPACER 6253421

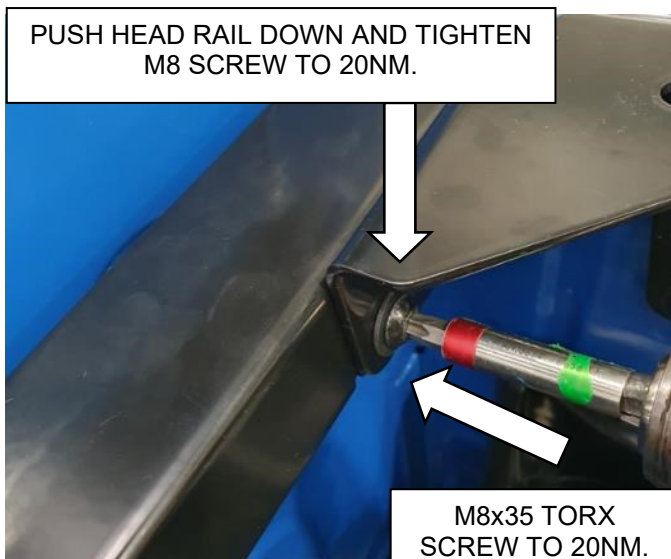
3.5) Place the 20mm x 13.5mm thick spacer (6253421) behind the front mount rail bracket (668PD179) and between front tub rail aligned with threaded M8 hole behind it in the vehicle's tub.



M8x35MM TORX SCREWS (6151881), WITH M8x19x1.2 WASHER (4581085)

3.6) Thread M8x35mm Torx screws (6151881), with M8x19x1.2 washer (4581085) through bracket and header rail and tighten loosely.

Do both sides of the vehicle.

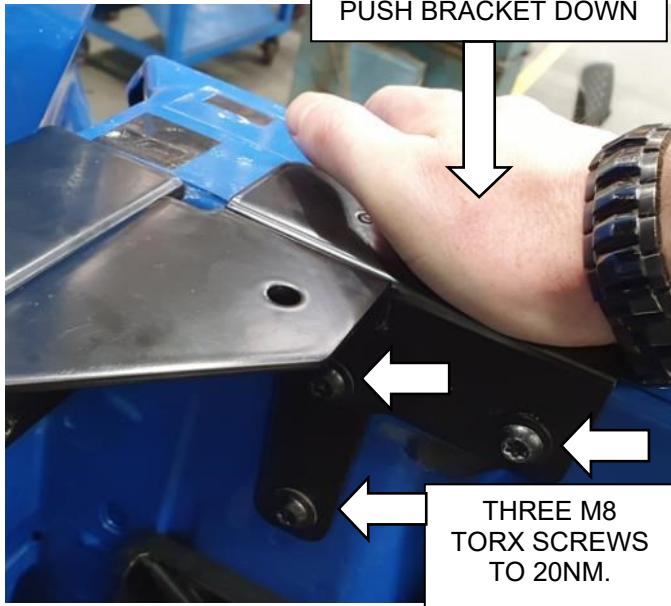


PUSH HEAD RAIL DOWN AND TIGHTEN M8 SCREW TO 20NM.

M8x35 TORX SCREW TO 20NM.

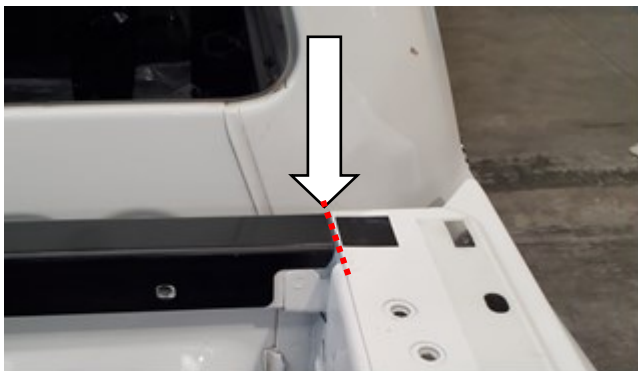
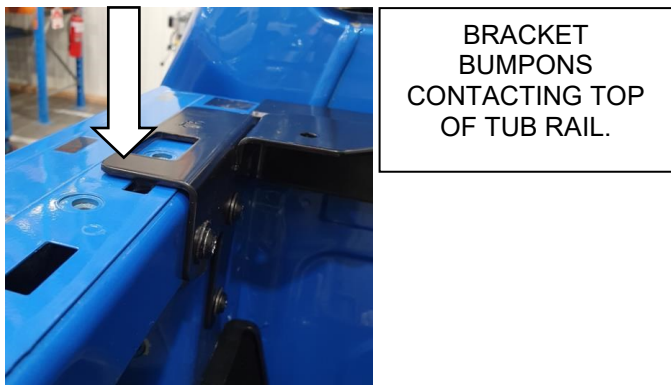
3.7) Push the head board mount rail (668PD179) down to **provide a level surface between the top of it and the sides of the tub each side** and tighten M8 torx screw to **20Nm**.

Do both sides of the vehicle.



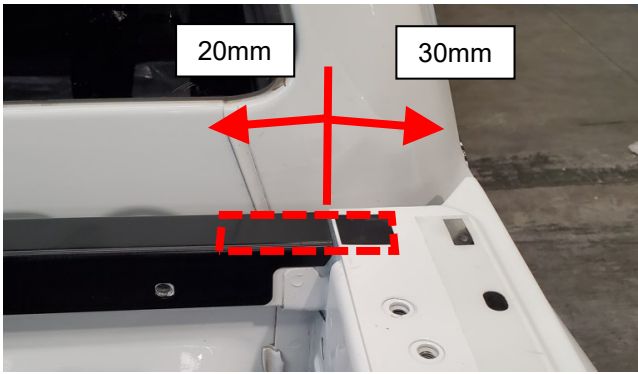
3.8) Push the front mount bracket (668PD176R/L) down until bracket bumpons under the bracket contact the top of the tub. Then tighten the three M8 Torx screws to **20Nm**.

Do both sides of the vehicle.



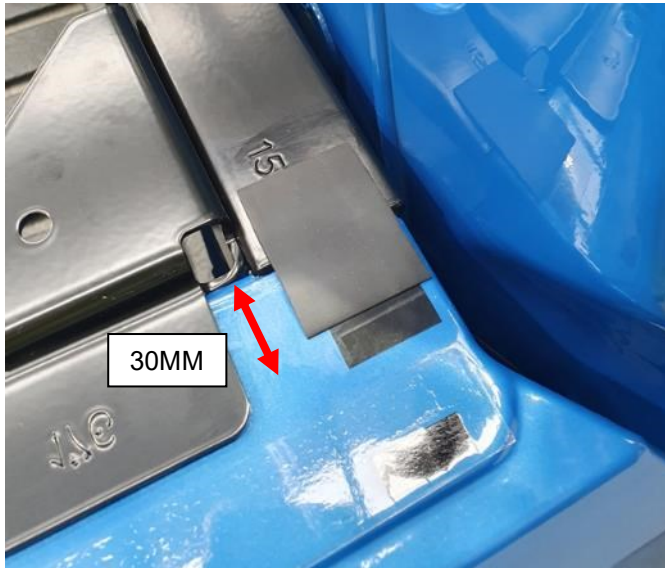
3.9) Apply neutral cure silicon to the ends of the front mount rail bracket both sides, to fill the gaps between the bracket and the side tub rails on the vehicle. Clean surrounding surfaces well using an alcohol wipe (66020018) to remove silicon from surrounding surfaces at the join. Silicon should only fill the gap neatly.





3.10) Follow the directions written on the primer stick (665044) prime the front mount rail and the tub over the black sticker, to the width of the front header rail bracket to 30mm onto the side of the tub and 20mm onto the front header rail bracket.

Do this on both sides

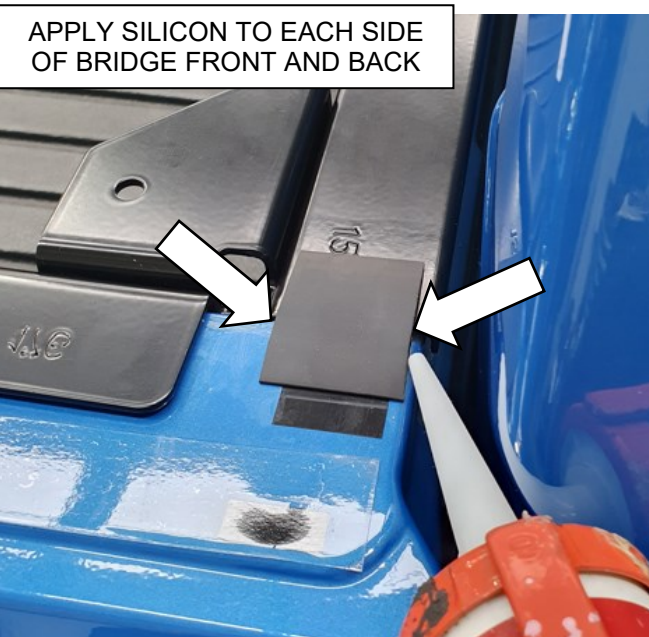


3.11) Apply to either end on top of the front mount rail a bridge seal (668PM005), by removing the backing paper off the adhesive side and sticking it down to the dimensions shown opposite (**30mm overlap only to the side tub rails**), ensuring its rearward facing edge is up against the front leading edge of the front corner bracket.

The ramp curved profile should go between the front header rail and the side of the tub as a “bridge”.

!! IMPORTANT !!

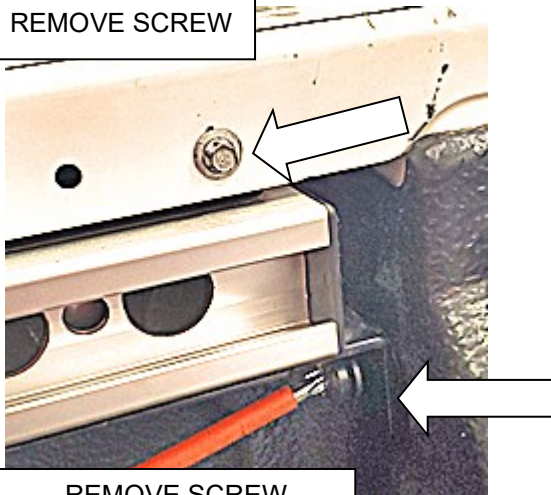
POSITION THE SEAL BRIDGE EXACTLY AS SHOWN OR FRONT CORNER WATER LEAKS COULD OCCUR



APPLY SILICON TO EACH SIDE OF BRIDGE FRONT AND BACK

3.12) Apply clear neutral silicon to the edges of bridge seal as shown. Wipe clean and make neat.

REMOVE SCREW



REMOVE SCREW

3.13) **On the sides of the vehicle's tub if CMS cargo tie down rails are fitted**, on the right-hand rear corner of the inner tub lip, remove the top screw and discard it.

Under the rear bracket of CMS rail use a T40 torx drive to remove M8 screw and discard the lower screw.

Repeat on opposite side of tub.

6152008
M6 SCREW TO 9Nm



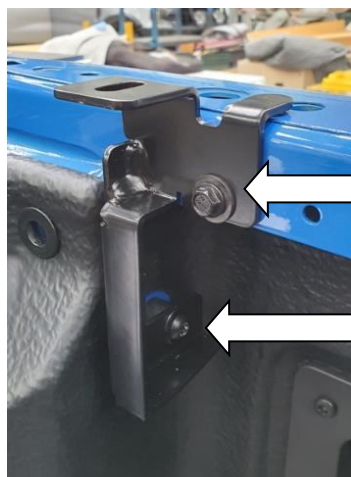
INSTALL T40 TORX M8
SCREW TO BOTTOM
BRACKET

3.14) **If CMS cargo tie down rails are fitted**, locate the rear tub mount bracket (668PD157R) over tub lip where the tag with bump on engages the top face of the side tub rail **and push down so it engages on the bump on** and the lower end of the bracket meets up to the face of the bracket supporting the CMS track.

3.15) Use T40 Torx M8x35mm screw (6151881) and washer M8x19x1.2mm (4581085) and install them to the bottom threaded hole. **Tighten to 20Nm.**

3.16) Use Hex flange head M6x25 screw (6152008) and washer M6x20x1.2mm (4581082) on top hole in the bracket and **tighten to 9Nm.**

Do both sides.



M6 FLANGE SCREW (6152008), TWO WASHERS (4581082), M6 NYLOC NUT (6151223)

TORX SCREW M8x35mm (6151881), WASHER M8x19x1.2mm (4581085), SPACER (6253421) BEHIND BRACKET.

3.17) **If the CMS cargo tie down rails are NOT present** in the tub, use the 20mm x 13.5mm thick spacer (6253421) for bottom bracket fixing hole to the rear tub pillar. **Tighten to 20Nm.**

3.18) At the top of the bracket use Hex flange head M6x25 screw (6152008) and washer M6x20x1.2mm (4581082) on top hole in the bracket and on the inside of the tub lip fasten with washer M6x20x1.2mm (4581082) and M6 nyloc nut (6151223) **and tighten to 9Nm.**

Do both sides.

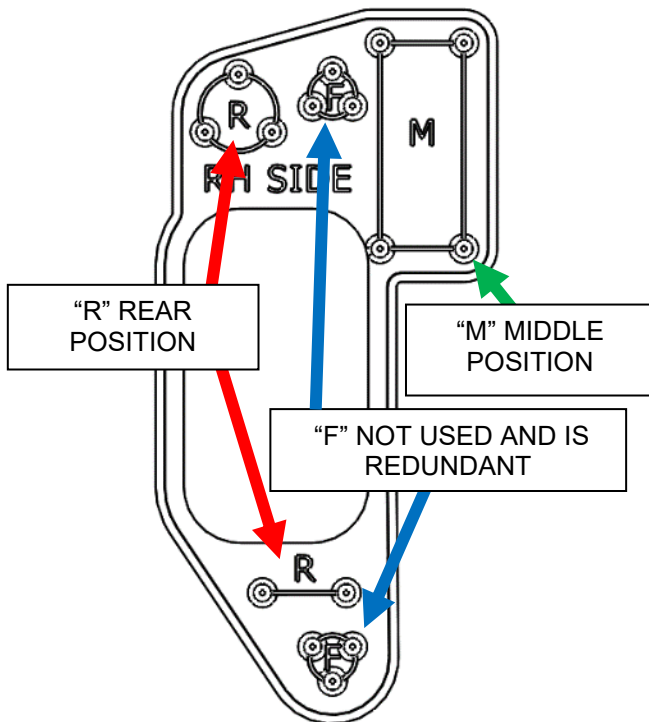


3.19) View the side with the spigots of the plastic spacer locators tub rail (668PE051R/L) and cut off spigots as marked on underside of spacer.

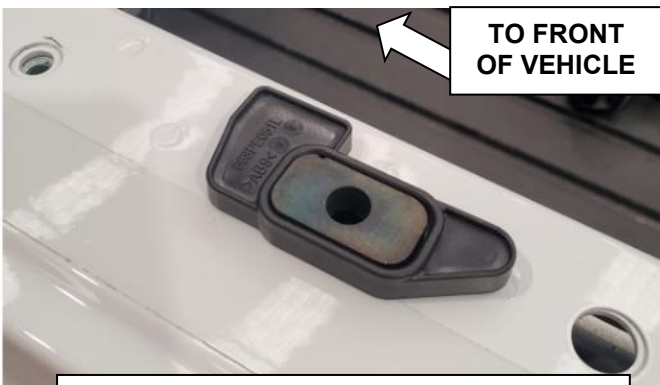
Prepare a pair of 668PE051R/L **“M” (for middle position)** **CUT ALL OTHER** pins off, other than pins marked “M” for the middle spacer position.

Prepare another pair of 668PE051R/L **“R” (rear position)** **CUT ALL OTHER** pins off, other than pins marked “R” for the rear spacer position.

Ensure pins are cut below the side profile height of the spacers so they sit flat on top of tub.



LEFT HAND TOP TUB RAIL SHOWN

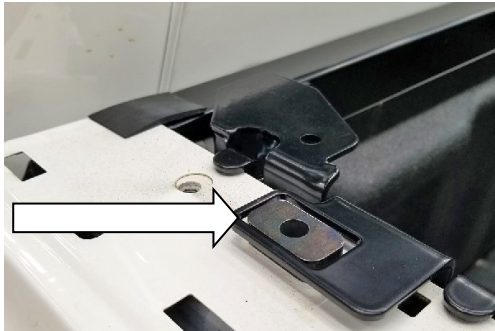


3.20) Once the spigots have been cut off and per position location on the tub (Middle or Rear), place spacer locators 668PE051R/L along tub lip (2 LEFT HAND parts to LEFT HAND tub rail and 2 RIGHT HAND parts to RIGHT HAND tub rail top surfaces).

3.21) Position these Middle and Rear. See images. The spigots on the locators locate into existing holes in the tub corresponding to their position on the tub.



"R" LOCATOR AND SPACER POSITION AT REAR OF TUB



668PD161 SPACER LOCATED THROUGH TOP OPENING OF 6668PD176L BRACKET

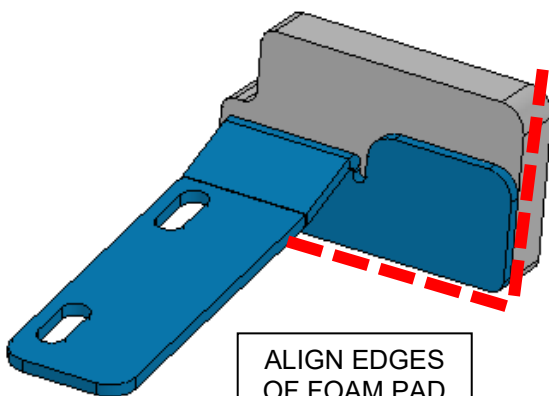
3.22) Then place inside 668PE051R/L spacer locators a total of four (668PD151) rectangular spacers that are 10mm thick.(2 per side)

3.23) Through the front corner mount brackets (668PD17R/L) place two (668PD151) rectangular spacers that are 10mm thick. (1 per side).

SEPARATE LEFT HAND AND RIGHT HAND



3.24) Separate the foam tape pad (668PB037) in half. Remove the backing paper on one side.

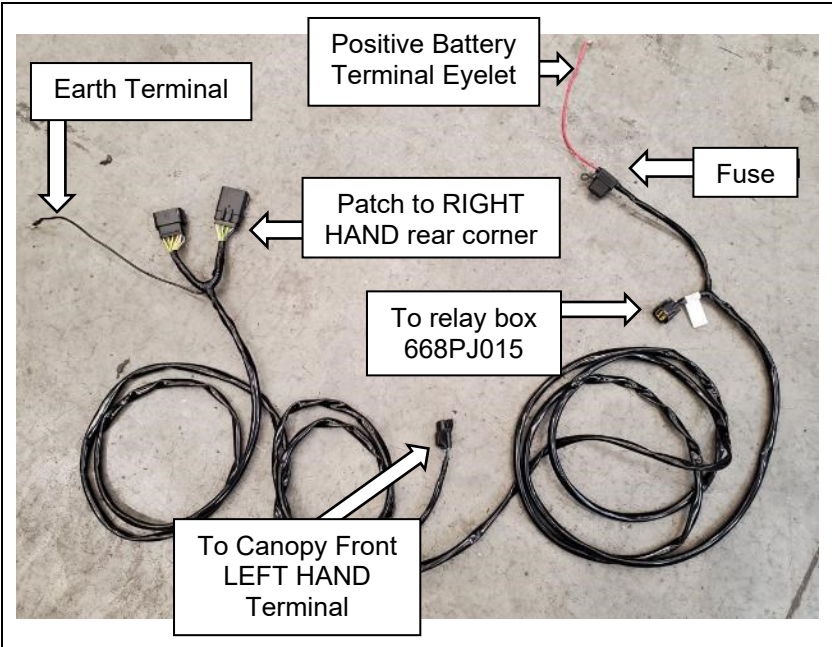


ALIGN EDGES OF FOAM PAD

3.25) Adhere RIGHT HAND and LEFT HAND foam pad to rear corner tailgate sealing bracket (668PD175/L) respectively.

3.26) Align bottom edge and inner edge of bracket with foam pad as shown.

SECTION 4.0: FITTING THE CANOPY WIRING LOOM

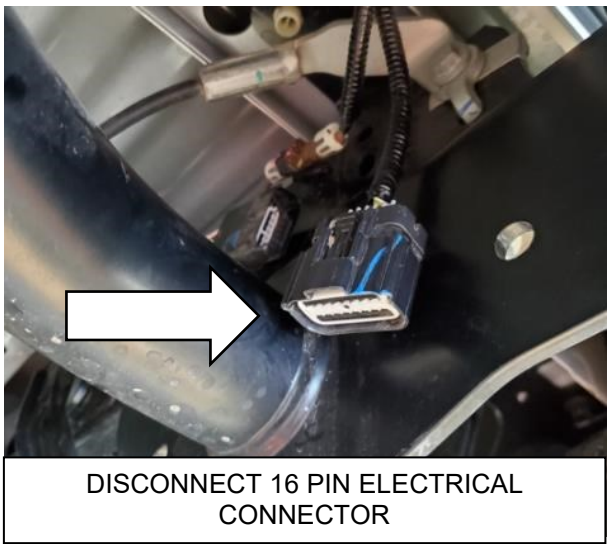


4.0) Unpack the canopy's wiring loom patch harness (668PJ031) and locate the pair of connectors to that go to the RIGHT HAND rear corner of the vehicle.



4.1) Put the car on hoist and start at **the underside rear RIGHT HAND corner of the chassis rail.**

4.2) Locate and disconnect the 16 pin OE connector as pictured.



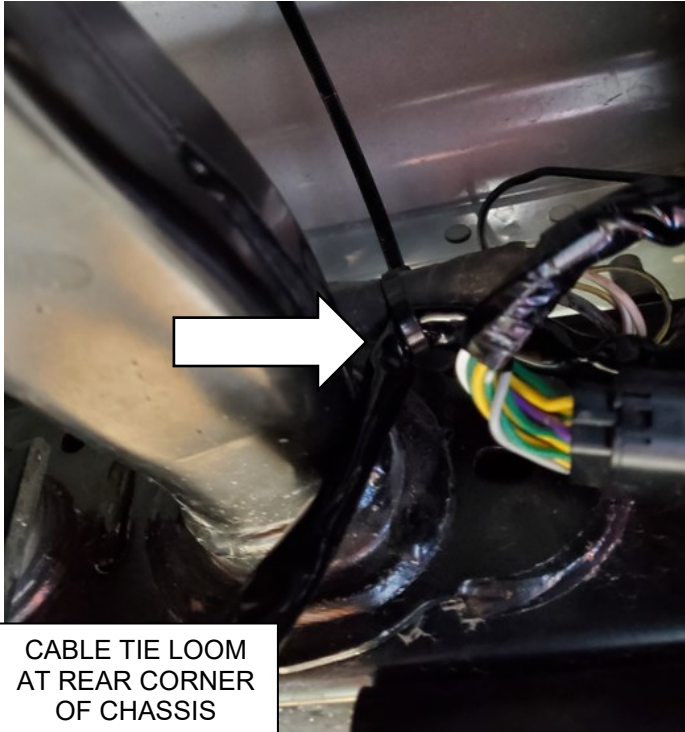


4.3) Connect the (668PJ031) canopy loom between the two vehicle's connectors.



4.4) Locate the earth screw on RIGHT HAND chassis rail on the outside of the rail and undo it with an 8mm socket.

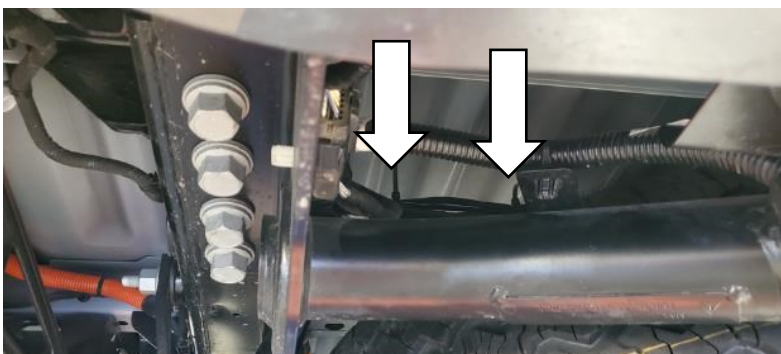
Reinstall the M6 screw with earth eyelet attached from the 668PJ031 canopy loom.



4.5) Use a cable tie (180302) and tie off the canopy loom to the vehicle's loom at the **RIGHT HAND** corner of chassis where the cross member goes across the vehicle.

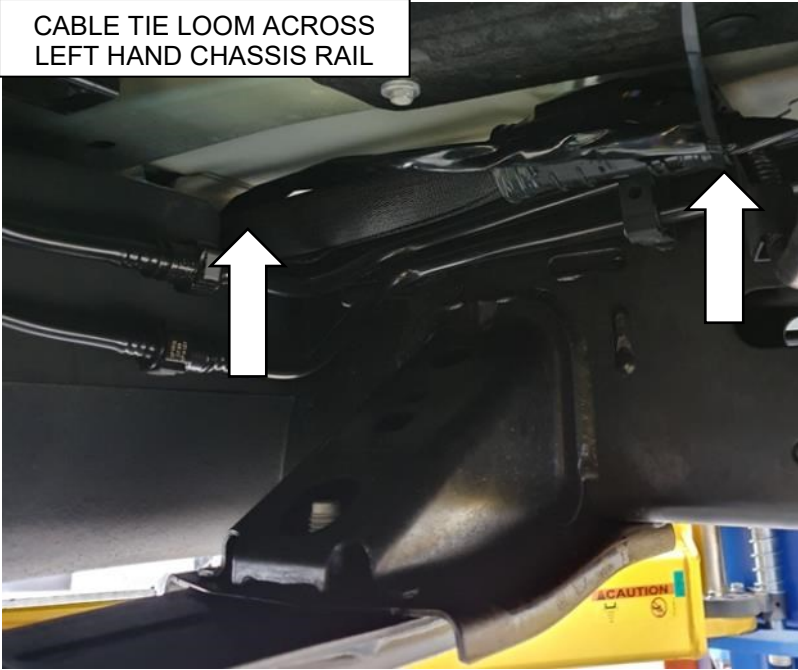


4.6) Follow the vehicle loom across the width of the vehicle's chassis to **LEFT HAND** side behind the spare tyre and cable tie the canopy loom to it before the spare tyre.



4.7) Cable tie off canopy loom to the vehicle's loom above the spare tyre and at the chassis junction of the cross member to the **LEFT HAND** side chassis rail (2 cable ties used).

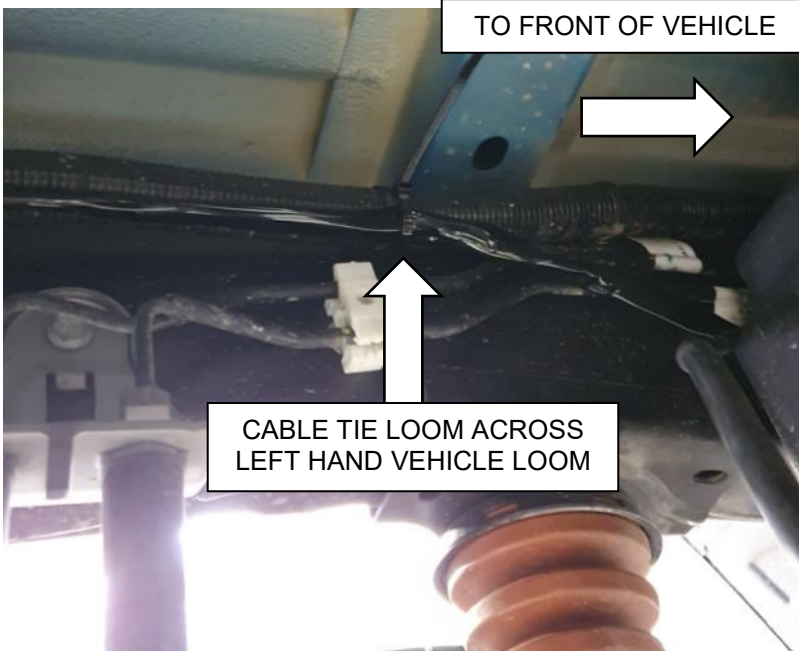
CABLE TIE LOOM ACROSS
LEFT HAND CHASSIS RAIL



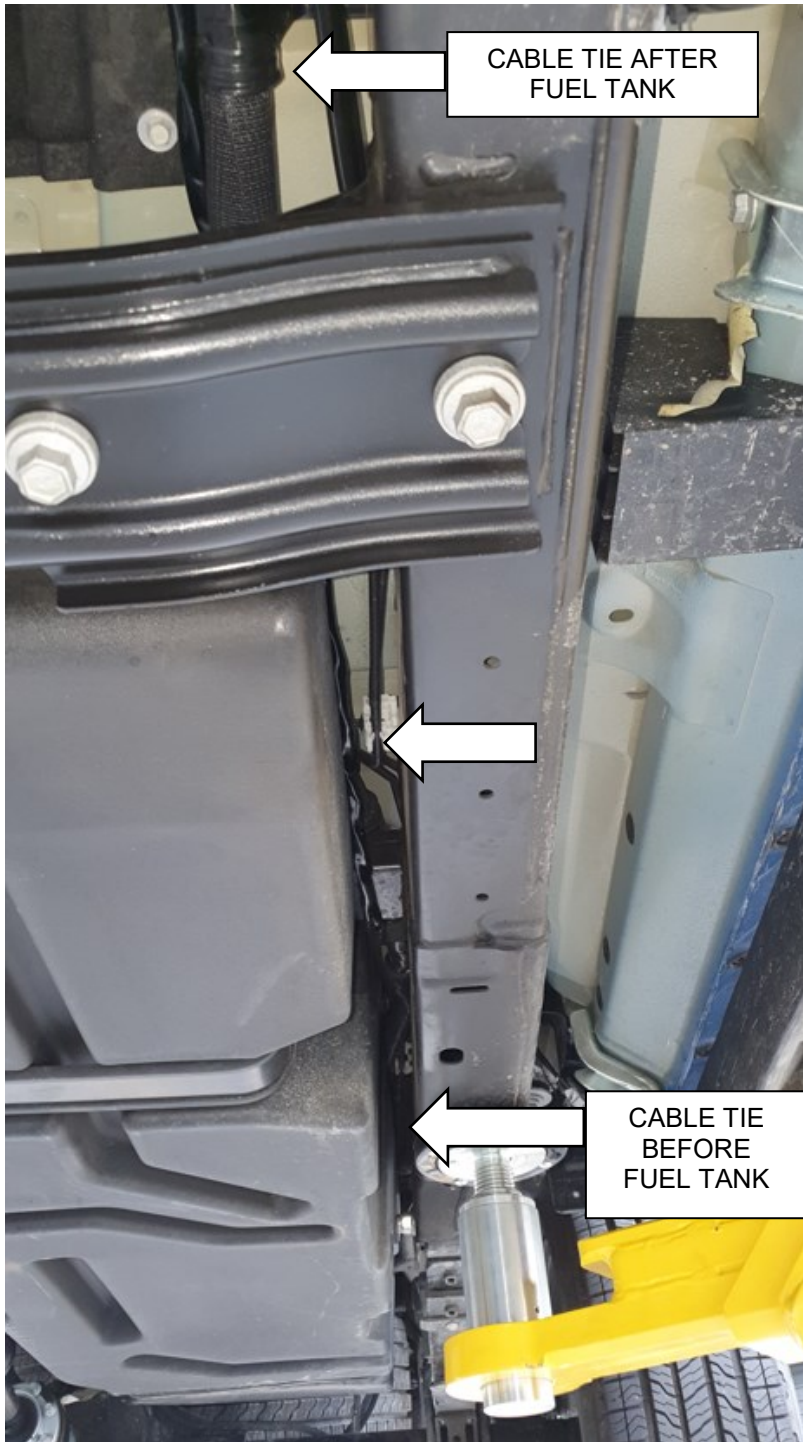
4.8) On inner side of LEFT HAND chassis rail, locate the vehicle's wiring loom and lead the canopy loom towards the front of the vehicle and cable tie in two places rearward of the LEFT HAND rear wheel bump stop.

Do not tie cable ties to brake lines.

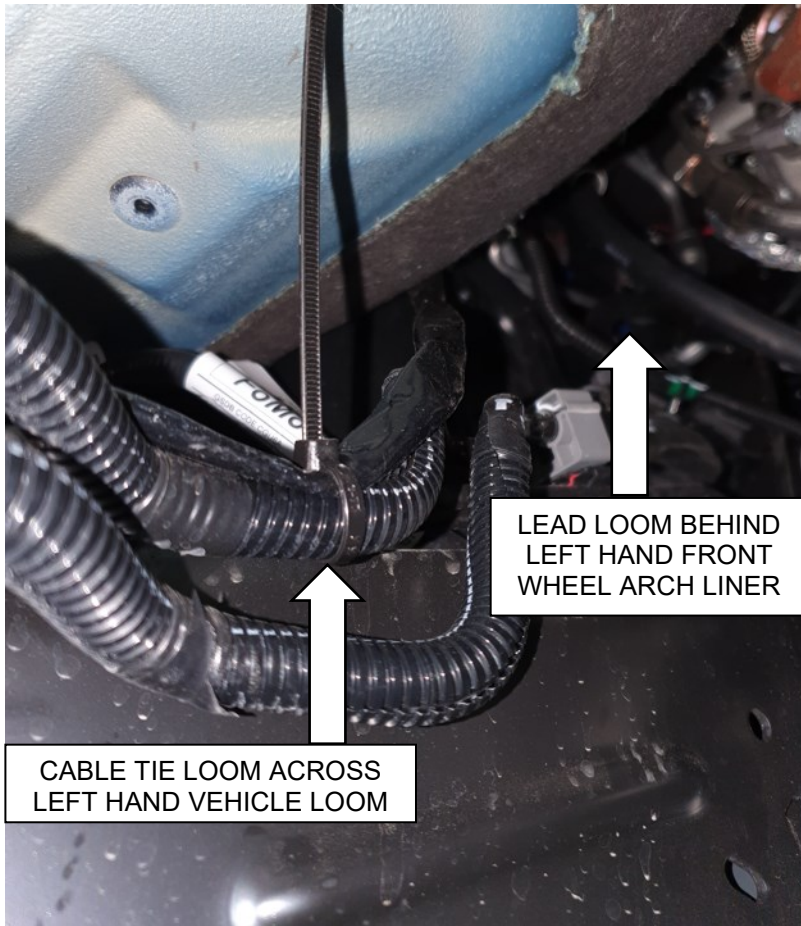
TO FRONT OF VEHICLE



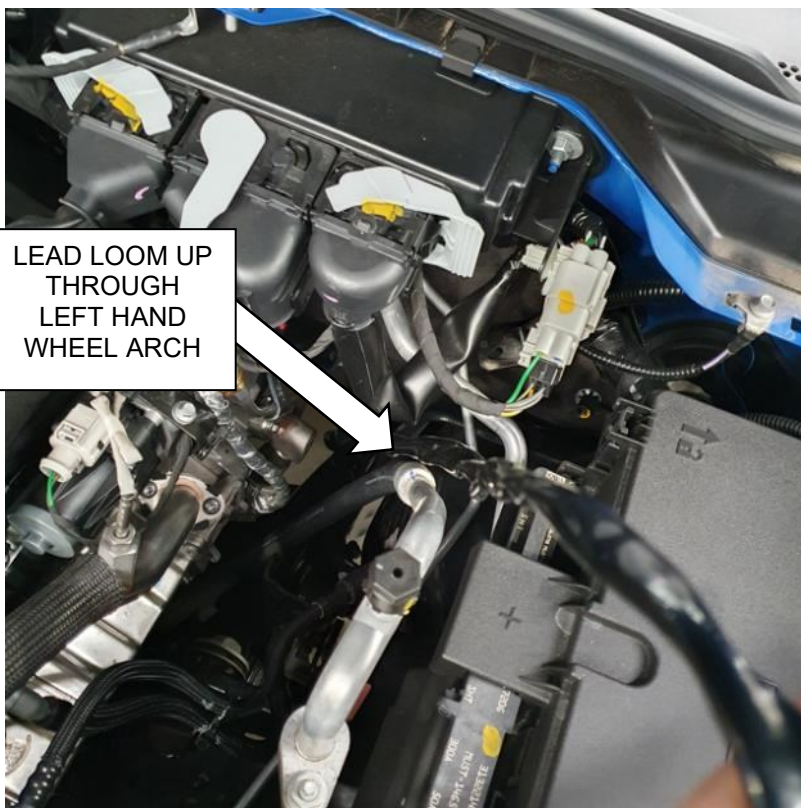
CABLE TIE LOOM ACROSS
LEFT HAND VEHICLE LOOM



4.9) Follow loom towards front of vehicle between LEFT HAND chassis rail and fuel tank.

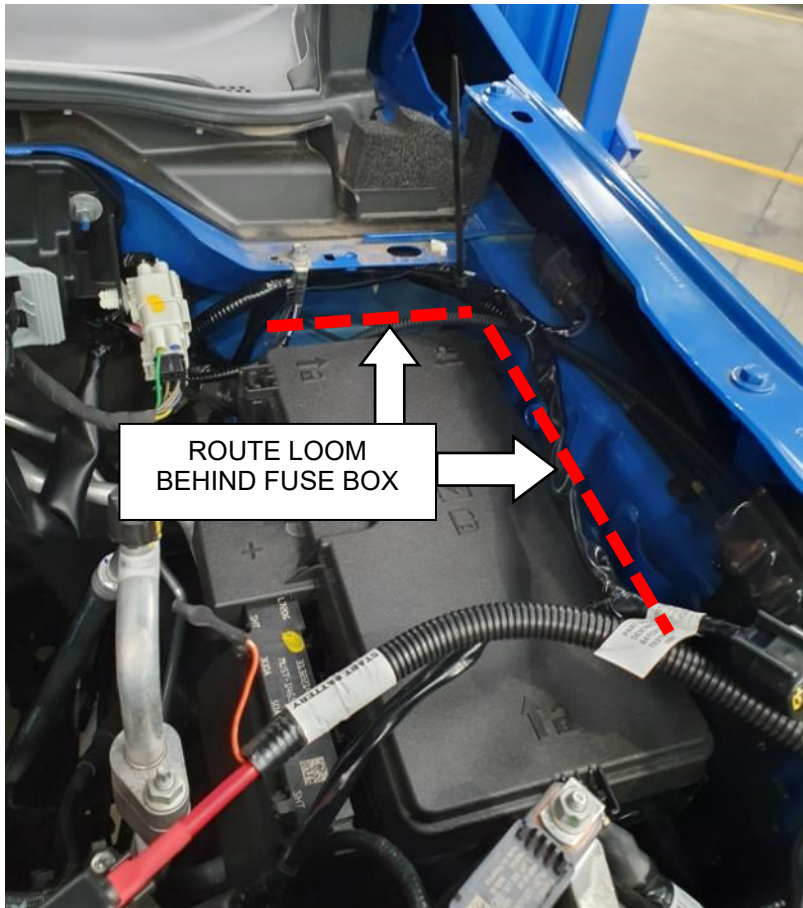


4.10) Lead the canopy loom through to the front LEFT HAND front wheel arch liner and cable tie off to vehicle's main loom at the bottom

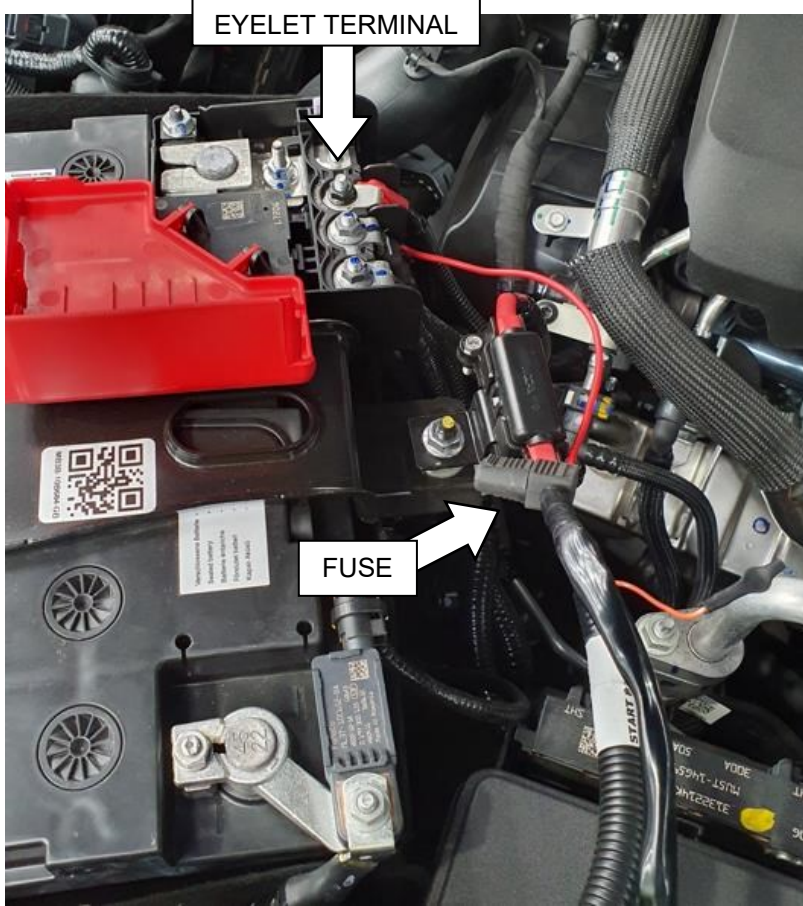


4.11) Open the bonnet and thread the canopy loom up through behind the LEFT HAND wheel arch liner to the front corner of engine bay, behind the fuse box.

Avoid cable tying to moving parts, brake lines and air conditioning pipes



ROUTE LOOM
BEHIND FUSE BOX



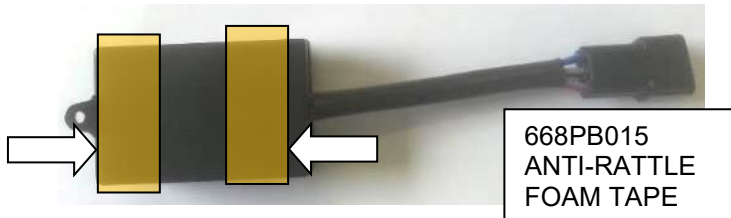
EYELET TERMINAL

FUSE

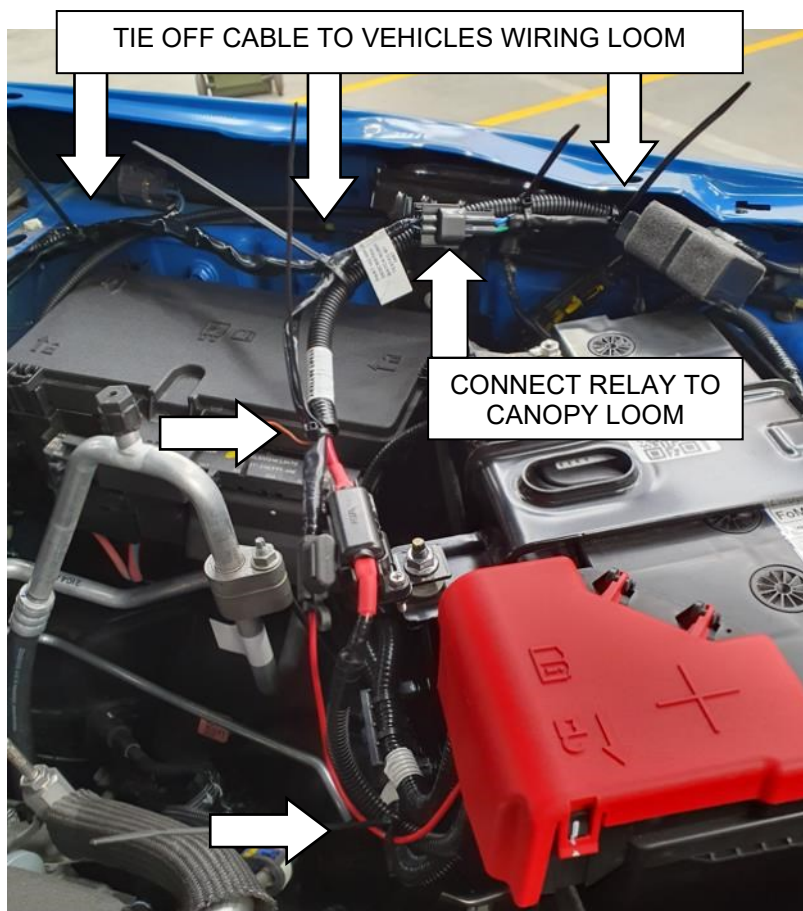
4.12) Locate the positive battery terminal under the red plastic cover and connect the 6mm eyelet on the red wire of the canopy loom to the third battery terminal.

Use the M6 flange nut (6151173) to secure the eyelet to the battery.

4.13) Cable tie off the loom to the vehicle loom conduit with cable ties in 3 places.

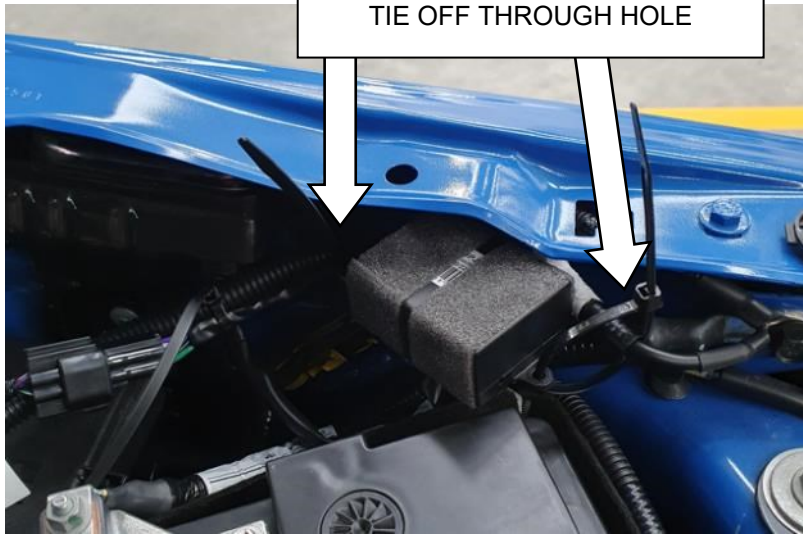


4.14) Use (668PB015) anti-rattle foam strips and apply in the two positions shown on the (668PJ015) latch relay.



4.15) Connect (668PB015) relay box to the canopy wiring harness at connector.

Cable tie off canopy loom to vehicles wiring loom in 6 places.



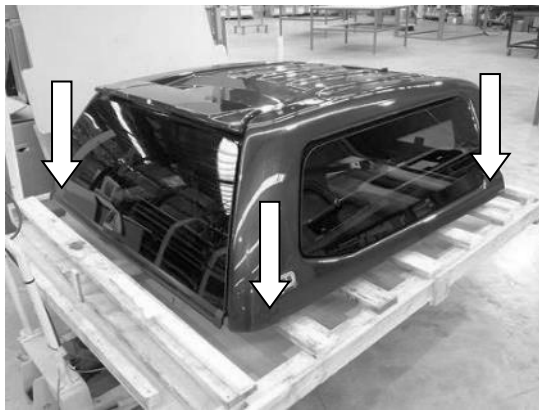
4.16) Loop a cable tie through hole in one end of the relay box.



4.17) Push relay box up into cavity on LEFT HAND side of engine bay.

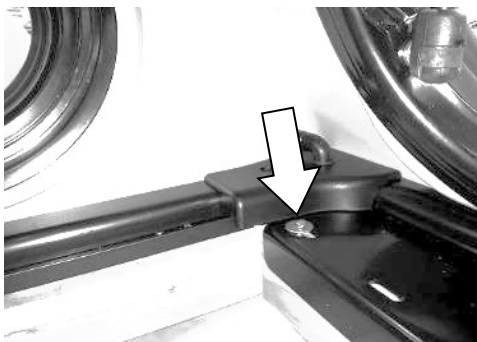
Cable tie both ends of the relay box to the bracket and to the vehicle's wiring harness.

SECTION 5: FITTING THE CANOPY



5.0) Unscrew the canopy on the pallet by removing the 4 wood screws in each corner. Gain access to screws via opening the rear door and front lift up window

5.1) The front lift up window can be unlatched by reaching in underneath the canopy on the pallet and pushing forward on the glass in car position, to push the latch button upwards on both latches to unlock the window.



5.2) Clean the front window of the canopy on the outside.

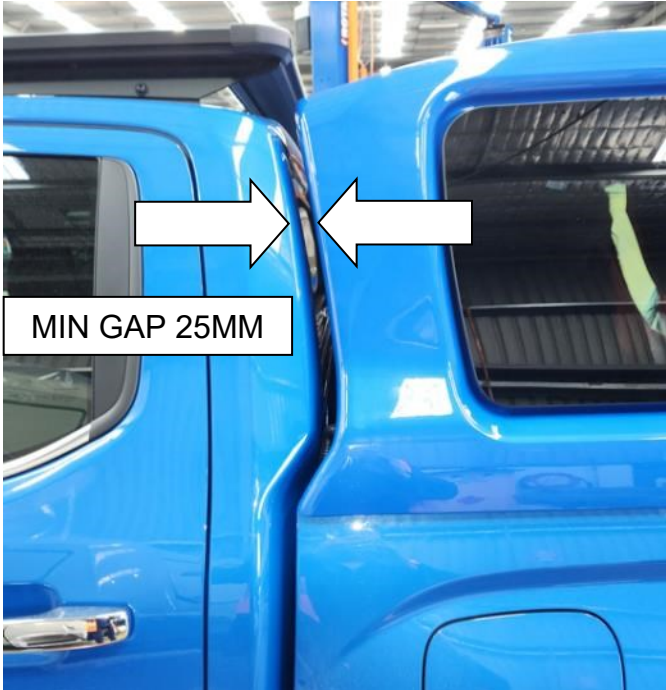
5.3) Clean the rear window of the vehicle's cabin.

5.4) Close the vehicle's tailgate.



5.5) Cut the cable tie holding the wiring harness to the window frame bracket inside the front corner of the canopy. Using masking tape, tape the harness up over the front left hand corner of the canopy.

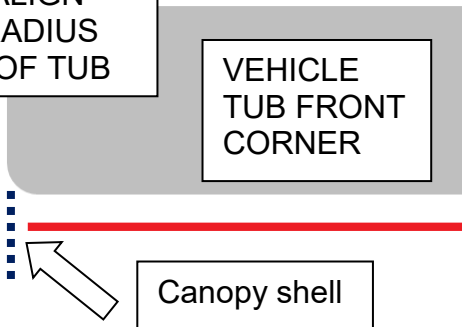




TOP VIEW OF FRONT CORNER OF CANOPY ON VEHICLE

FRONT LOWER TRIM EDGE OF SHELL TO ALIGN TO EDGE RADIUS AT FRONT OF TUB

VEHICLE TUB FRONT CORNER



Canopy shell

5.6) Close the canopy's rear door and **USING 4 PEOPLE**, lift the canopy from the pallet and place it carefully down onto the vehicle's tub

Be careful not to dislodge the foam tape around the inside edge of the canopy shell's lip perimeter.

Take care during this process to ensure the trim edge of the canopy shell is lowered down evenly and is not contacting the vehicle tub to avoid paint damage.

When re-positioning the canopy, lift the canopy up to avoid dislodging the weather seal underneath.

POSITIONING OF CANOPY ON TUB:

The canopy should be positioned so the lower door edge's sash seal is **sealing well and evenly along its length** to the tailgate door stop extrusion assembly mounted on the vehicle's tailgate and even side to side so the tailgate closes with clearance between the door frame seals at the sides of the canopy.

Then review the front leading lower edge corners of the canopy are aligned just to the beginning of the edge radius at the front of the tub.

Check minimum gap from canopy front pillars and cabin is 25mm at the tightest location of the front pillar of the canopy to the vehicle's cabin.



5.7) Measure the trim edges of the canopy at the rear sides and at the front both sides, to the vehicle's tub.

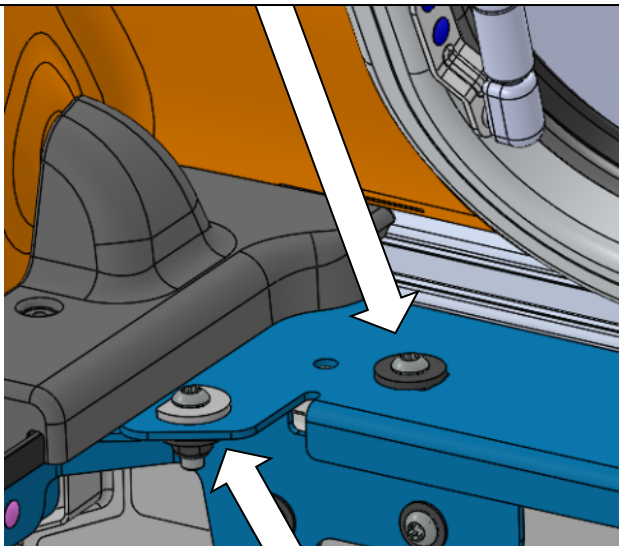
This measurement should be even on both sides of the canopy.



5.8) Stand back and walk around the canopy and check uniform balanced fit to the tub and cabin.

- The canopy is central on the Ute body.
- Alignment between cab and canopy is even both sides
- The rear door seals against the tailgate door sealing stop evenly both sides without excessive force on glass to close.
- The gap is even between the door and shell on both sides.

M8x35 TORX SCREW (6151881) WITH M8x25x3MM WASHER (4581303)



M8x25 TORX SCREW (6151625) WITH M8x24.4x3 28 WASHER (4581303) ABOVE AND M8x25.4x3MM WASHER (4581303) BELOW WITH M8 NYLOC NUT (6151212)

5.9) In the front corner of the canopy assemble one M8x35mm torx head screw (6151881) with one M8x25.4x3mm thick washer (4581303) and fasten it down through the canopy's base rail.

On the inner edge of the front corner of the base rail, assemble one M8x25mm Torx head screw (6151625) with one M8x25.4x3mm washer (4581303), and on the underside, one M8x24.5x3 flat washer (4581303) to the front tub mount bracket (668PD176R/L) and M8 nyloc nut (6151212)

Tighten M8 screws to 20 Nm.

Do for both sides.

M8x35 TORX
SCREW(6151881) WITH
3MM THICK WASHER

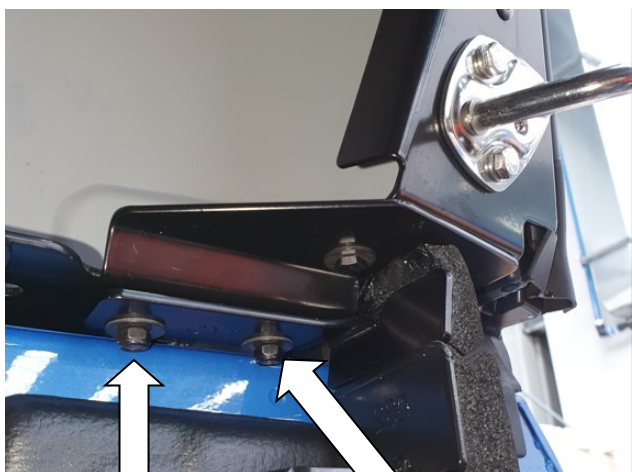


M8x25 TORX
SCREW (6151625)
AND M8x25.4x3MM
WASHER (4581303)

5.10) In rear corner assemble one M8x35mm screw (6151881) with one M8x25.4x3mm thick washer (4581303) and fasten it down through the back corner of the canopy's base rail.

Tighten to 20 Nm on both sides.

On the inner edge of the rear corner of the base rail, assemble one M8x25mm torx head screw (6151625) with one, M8x25.4x 3mm thick washer (4581303) to rear tub mount bracket (668PD157R/L) – **do not add bottom washer of nyloc nut yet.**



668PD175R
BRACKET

TWO M6 NYLOC NUTS
TWO M6 WASHERS

5.11) Take rear tub tailgate corner sealing bracket (668PD175R/L) (RIGHT HAND shown) and place it under the canopy's base rail and align the bracket's slots with the existing M6 thread protruding from weld nuts from the rear base rail where the door frame support bracket is attached. Loosely assemble M6 nyloc nuts (6151223) with M6x16x1.2mm washers (4584378) to the underside of the (668PD175R) rear tailgate sealing bracket and allow the tub sealing bracket to move freely back and forward.

Do this both sides.



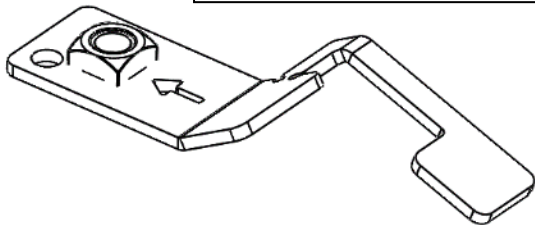
SEAL COMPRESSED TO THREE
QUARTER THICKNESS TO TAILGATE

5.12) Close vehicle tailgate and pull the rear tub corner sealing bracket (668PD175R) against the tailgate door stop assembly until the sealing foam is compressed to three quarters of the expanded thickness. Make sure the inside edge of the foam seal is touching the inside vertical wall of the tub wall.

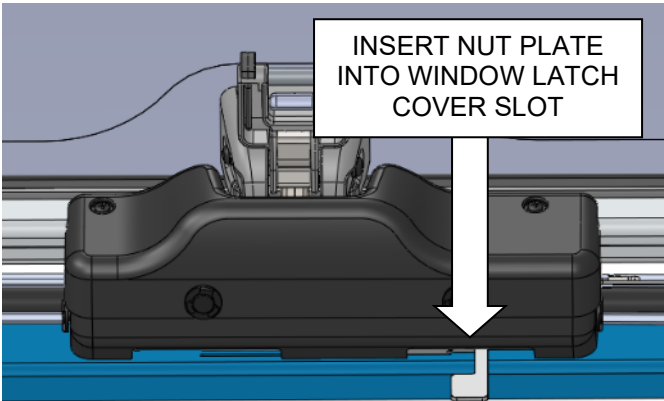
5.13) When bracket is in place tighten both M6 nyloc nuts **to 9 Nm.**

Do both sides.

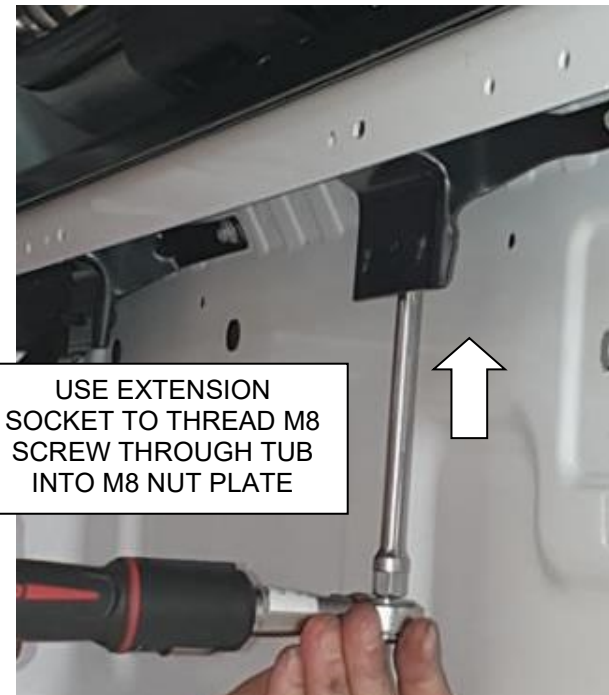
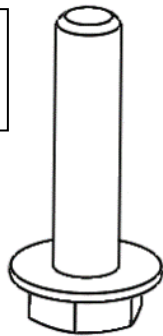
M8 NUT PLATE 668AQ026



INSERT NUT PLATE INTO WINDOW LATCH COVER SLOT



(6151681) M8 x 35 HEX BOLT WITH
(4581085) M8 FLAT WASHER



USE EXTENSION SOCKET TO THREAD M8 SCREW THROUGH TUB INTO M8 NUT PLATE

5.14) On the inside of the canopy in the middle both sides, mounting of the canopy to the tub requires the use of nut plate mid mount brackets (668AQ026).

5.15) Using the break-away tab arm, push the nut plate into the slot underneath the side window lock mechanism cover ensuring not to pinch wiring inside during this process. If in doubt, remove the top cover over the latch mechanism to improve visibility for assembly.

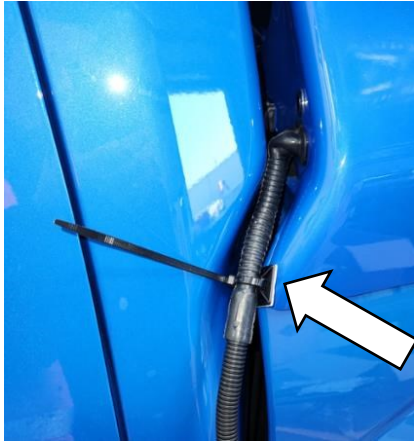
The rear slot in the cover is used for the position of the nut plate for each side of vehicle.

5.16) With 13mm socket and extension, locate the corresponding hole under the side tub rails, with M8 nut plate (668AQ026) slid in position (per the above step), screw the M8x35 hex head screw (6151681) with a M8x19x1.2 washer (4581085) into the nut plate (668AQ026) from underneath the side tub rail.

Keep the nut plate square to the canopy base rail on the inside by using a flat blade screw driver to hold it in place against the lock mechanism cover and tighten the bolt to 20 Nm.

5.17) **Once assembled, break off the protruding arm for the nut plate (668AQ026).**

Do both sides.



CLEAN AND
PLACE CABLE
TIE BASE HERE

5.18) Cable tie the (6821293) cable tie base to the canopy loom at the front LEFT HAND outer corner of the canopy, in the location shown (on the lower end of the tube of the rubber grommet) tight enough to not allow it to fall down the loom and in the orientation shown.

5.19) Reaching between the tub and cabin on left hand side with an alcohol wipe, clean an area on the front of the tub level to where the cable tie base will be fitted.

5.20) Peel the protection film off the cable tie base (6821293) and drop the canopy loom down between the cabin and tub on the LEFT HAND side.

5.21) Reaching in between the cabin and the tub, press the cable tie base firmly onto the front of the tub and ensure it has adhered firmly.



5.22) Connect the canopy wiring connector to the end connector of the canopy wiring harness (668PJ031) fitted to the vehicle, in the plenum above the LEFT HAND chassis rail forwards of the LEFT HAND rear cabin body mount.

5.23) Cable tie the remaining harness up in the cavity and tie it off to the vehicle's main wiring loom. **Avoid stress on wiring at the back of connectors.**

5.24) **Press the key fob of the car to the UNLOCK POSITION TWICE.**

5.25) Go to the canopy's rear door and press the door push button pad. Check the door opens and the electric actuator functions to unlock the canopy door.

5.26) Turn the interior light to the "II" position that the interior light turns off when the door is closed.



Press the button underneath to check the door releases on the actuator and the pressure is not too high to stop it unlatching.

5.27) 2 people are required for this step. Check the gap on the rear door on the sides of the glass is even to the canopy shell. This can be made even by pushing in on the canopy shell rear pillars and on the inside loosening and doing up the screws.

5.28) It may be necessary now to adjust the canopy backwards to reduce the pressure on the lower door edge seal and therefore the door actuator mechanism. This will allow the door to open properly and evenly both sides.

2 people will be required to re-adjust the door glass gap at the sides if the canopy has to be moved, by either pulling or pushing on the rear pillars of the canopy and retightening mounts.



5.29) Check the gap of the canopy shell's trim edge corners to the tub. It should be even on both sides of the canopy.

!! IMPORTANT !! The gap between the rear pillar corner piece should be 5mm or more and even both sides. Move the canopy rearward if required. It is OK for the rib on the inside of the plastic corner piece to touch the rubber rear tub sealing blocks (668PE060R/L)

If there are issues with the rear door operation being uneven on each side, refer to Section 6.

Tighten the Torx screws through the rear corner brackets to 20 Nm.







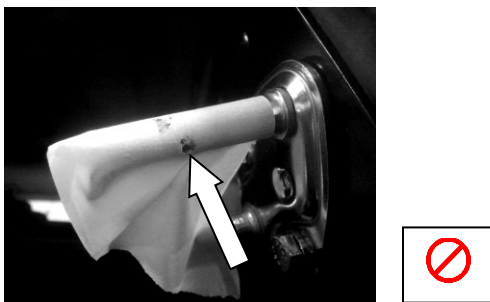
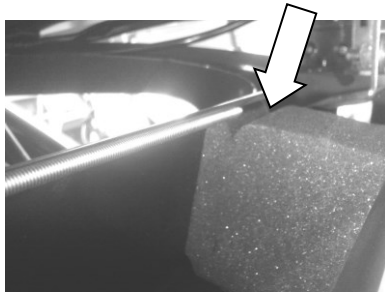
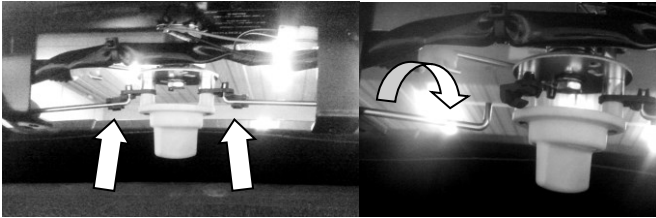
5.30) Water test the canopy around all windows and joins to the tub with high pressure hose and seal or report any leaks found.

5.31) Ensure Section 6 and 7 are discussed with the customer and copies are given to the customer. The last page is to be retained by ARB or dealer fitting the canopy for records.

SECTION 6: OPERATIONAL CHECKS AND ADJUSTMENT OF DOORS AND WINDOWS

Operational checks need to be undertaken as follows.

	<p>6.0) Move the interior light switch to the position II where it will turn off when the door is closed and turn on when the door is opened.</p>
	<p>6.1) Depress the vehicle's brake pedal and have a second person check that the brake light in the spoiler works.</p>
	<p>6.2) Remove the key from the rear door handle and combine this with the key taped inside the canopy. The 2 keys should then be added to the customer's key ring. <u>!! IMPORTANT !! Check BOTH keys work manually in the rear door lock.</u></p>
	<p>6.3) Operate the door push button switch to open and close the door. If one side opens before the other, the lock mechanism can be adjusted so that both sides of the door open simultaneously if the following is done:</p> <ul style="list-style-type: none"> • Open the door. Remove the 4 scrivenets retaining the lower section of the door interior cover using a flat blade screw driver under the head. Slightly pry the door cover down away from the glass. • Close both of the latch pawls on the sides of the door glass with your fingers. Slowly turn the interior door release handle and listen to hear if both latches click open at the same time with the door cover pushed back up to the glass whilst ensuring the latch rods are located into the foam blocks on the door cover.

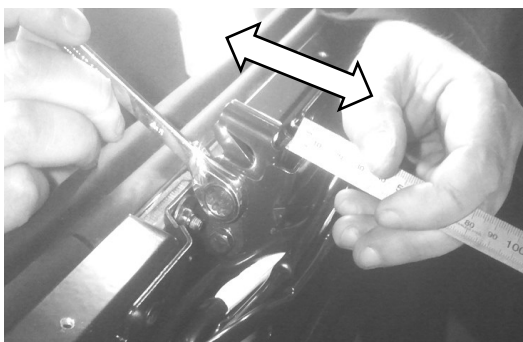
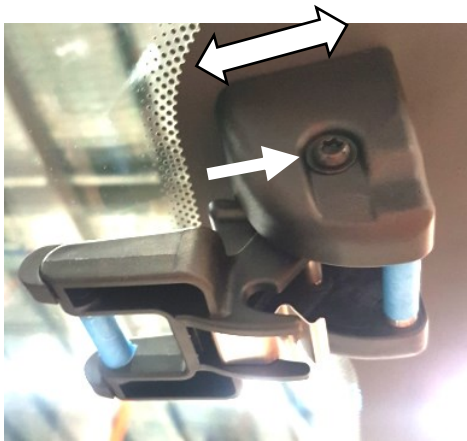
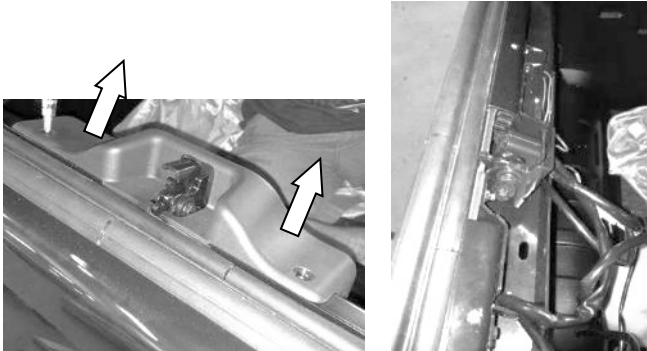


- If the latches do not operate simultaneously, locate the black plastic clips on each end of the pull rods to the latches, unclip a pull rod, lengthen or shorten it by winding it in/out and re-clip in. Close the latches with your fingers again and test operation via the interior rear door handle to operate simultaneously.
- Once satisfied, refit the door cover lower portion with the scrivets, but ensure to guide the pull rods into slits in the foam blocks on the door cover at both ends.

If the latches can be seen to bind on the door frame strikers, it may be necessary to adjust the door frame strikers.

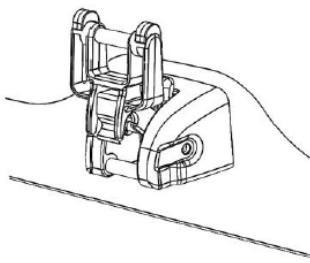
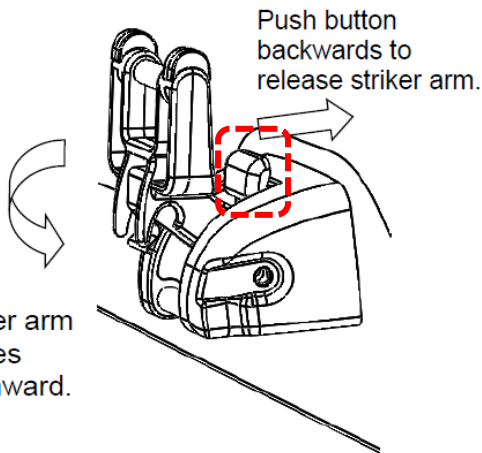
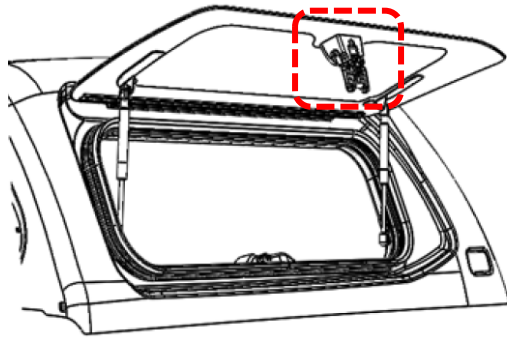
Do this by the following:

- Place one thickness of masking tape around the striker bar where the latches contact. Open and close the door. If the tape shown signs of wear through on the top side or underneath of the striker bar, it is necessary to adjust the striker away from the side on which the wear is shown. **The aim is only to have wear on the outward face of the striker bar.**
- Undo the M6 screws slightly on the strikers and adjust their position slightly. **Re-torque screws to 9Nm.**
- Test the door again and adjust via the above methods until satisfied.

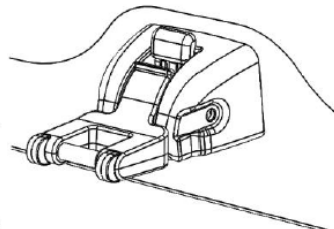


6.4) Operate the push button switch on side lift up windows. If the windows will not latch properly, and the solenoid can be heard working, the latch can be adjusted in the following steps.

- Remove the rotary latch cover on the window frame.
- Operate the window with a person outside pushing the button and closing the window slowly. Look to see the striker bar on the glass does not scuff the leg on the rotary latch pawl as the window closes. The striker bar should close into the middle of pawl slot on the rotary latch on the frame. Place one thickness of masking tape around the striker bar where the latch contacts. Open and close the window. If the tape shows signs of wear through on the top or underside of the striker bar, it is necessary to adjust the striker away from the side on which the wear is shown. **The aim is only to have wear on the outward side of the striker bar not above or below in closed position.**
- Two M6 Torx screws can be undone with T30 bit and **re-tightened to 7Nm** on the glass mounted striker on either side to move the position of the striker up and down on the glass.
- The rotary latch on the window frame provides window in/out adjustment. Measure the distance between the back of the rotary latch and it's mounting bracket and take note of it (9mm). Loosen the bolts through the latch and move the latch out 1mm at a time and **re-tighten to 9Nm** and test the window until it opens and closes and seals satisfactorily.
- Refit the cover over the latch mechanism and ensure wiring inside is coiled up neatly and cannot interfere with the latch mechanism.



Striker in (up) window closed position.



Striker in (down) window open position. (Vented window)

6.5) The lift up side windows incorporate a catch design that allows two positions of operation.

With the striker arm up, the window will fully close to seal. With the striker arm down, the window may be locked in a partially open, air vented position, to allow air flow inside the canopy for pets.

To configure the striker into the partially open (window vented position), push the release button backwards on the catch, and rotate latch arm down until it locks into open position (vented window).

To fold the arm up and close the window, simply push latch arm upwards until arm “clicks” into the up position.

Do not close the window unless the striker latch arm is locked in either up or down positions.

If latch arm is not locked in position during closing of the window, it could cause damage to the striker and / or the rotary latch mechanism.



SECTION 7: OWNERS MANUAL SUPPLEMENT (Fill in and give to customer).

ARB - Ascent Canopy AC17C VW Amarok 2023+

KEY CODE (Write it in boxes opposite)
(As is found on key bag or on canopy serial number label inside the canopy on the badge recess on the rear pillar)

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Warranty

- Refer to ARB Products “Warranty Against Defects” booklet contained within the hardware kit, to be delivered to the customer upon purchase.
- ARB provides a 3 year warranty with this product from date of purchase via the original purchaser.
- One year warranty is provided on gas struts.
- This warranty does not cover modifications / alterations, improper installation, use of non-genuine ARB accessories, abuse / misuse, accident, lack of maintenance, normal wear and tear and exposure to chemicals or solvents harmful to plastics.
- Loss of contents within the tub and canopy due to use, breakage during theft, leaving the canopy unlocked, lack of maintenance or mis-use of the product is the responsibility of the vehicle operator.
- Normal wear and tear from the vehicle’s operation with the canopy can occur and paint rub result on the canopy or the tub over time. It is recommended that the customer observes wear on tailgate protection tape and periodically replaces it.

Safety Warnings

- **The canopy will only unlock on the remote key fob when the unlock button is pressed twice if the program setting on the vehicle’s console is not set to “unlock all doors”.**
- Do not drive with windows or doors open, other than on the latch position for providing a vented side lift up window. All doors and lift up windows should remain closed and latched.
- Do not sit, rest or stand on the canopy roof, or rest heavy objects on the roof without these being loaded on ARB genuine roof bars or racks systems.
- Do not fit any roof bar or roof rack system other than ARB genuine accessories designed for this canopy.
- Do not use the vehicle’s tub with a canopy fitted as a passenger compartment.
- Do not transport or store volatile materials such as solvents, chemicals or liquids, as fumes may cause damage inside the canopy, or cause fire, due to reduced ventilation.
- Do not fill fuel containers inside the canopy as static electricity can build up causing a fire.
- Do not allow solvents, chemicals or oils to contact the canopy as damage can occur. Clean interior canopy surfaces with water and mild detergent.
- Do not depress lift up window or rear door push button switches for a period of time other than to function their operation. Do not operate them simultaneously, as damage may result. Overload switches on locking systems should reset after 30 seconds.

Maintenance Requirements

- At routine vehicle service schedules, screw torques as described in this fitting instruction should be checked. (Please ask the company that fitted your canopy for a copy of the fitting instructions).
- At routine vehicle service schedules, or as conditions dictate, lubricate the handle lock with Teflon spray e.g. SuperLube multipurpose Aerosol or 3-in-1 Professional Lock Lubricant or Isoflex Topas L32 grease. Latches and hinges may be serviced with Isoflex Topas L32 grease. Vaseline may be used sparingly on rotary latches. Molybond 122 on hinges. Do NOT use any other greases, oils or aerosols as failure may result voiding warranty.
- Ensure functional checks of the rear door lift up windows, interior light 3 way switch on door opening and brake light are carried out at vehicle service schedules.
- To clean, only use quality car care mild detergents, waxes and polishes. Do not use abrasive compounds on painted surfaces unless conducting repairs. If paint repairs are undertaken only bake at 60oC. Use only paint systems that are suitable for ABS plastic.
- Ensure gas struts are only ever connected with the cylinder end to the glass and the rod end to the canopy’s window frames. Failure to do so will cause premature failure of gas struts.
- Clean gas strut rods with a damp cloth only when regularly cleaning the vehicle. Seal failure of the strut can occur if cleaned with solvents or greased or left uncleaned.

**SECTION 8: ARB FITMENT CHECKLIST (TO BE FILLED IN - RETAIN THIS RECORD).**

To be completed by the installer and records kept at the dealer or fitter.

ARB - Ascent Canopy AC17C VW Amarok 2023+			
Dealer Name and code:		Date:	
Vehicle registration:		Vehicle Vin No:	
Vehicle make:			
Number of Kms:		Order No:	
Canopy serial number: (left inside corner on canopy pillar on inside of ARB badge recess)			
Canopy Key Serial No (Printed on bag stating with letter L)	L _____	Canopy Colour:	
Vehicle damage / condition check (details):			(Tick)
Vehicle tub sealing is done as per Section 1&2 of these instructions.			
Check the gap between the front of the canopy and the cabin is <u>25mm or more</u> at it's tightest point.			
Check the gap between the lower edge of the door glass is consistent left to right and there is not excessive pre-load of the door glass lower edge to the tailgate or door lower seal.			
All screw torques completed as detailed in the instructions – ! Important !			
Rear door gaps down the sides are aligned to canopy shell, and door latches both sides simultaneously on closing and releases simultaneously on opening. (See Section 5,6)			
Key fob once pressed, unlocks the canopy. If this only works when twice pressed- change program setting on the vehicle's console settings menu to "unlock all doors" to allow activation of the remote lock system to unlock on the key fob with only one press of the button.			
Door rear door push button switch functions to open the door both sides simultaneously.			
Door functions with both keys to turn to open as a manual electrical failsafe.			
3-way position interior light switch is set to come on with door open.			
Lift up windows operate via push button to unlatch to open and will close and latch manually.			
Lift up windows latch arm when opened on the striker will latch and unlatch from the window frame when the push buttons are operated to open and will close and latch manually, to lock in the partially ajar vented window position.			
The roof vent functions and water seals.			
Water test with high pressure hose (to simulate tropical rain fall) has been completed around all windows and join to canopy bed and at the roof vent with no leaks other than through unsealed tailgate sides.			
Spoiler rear brake light operates when brake pedal is pressed.			
Canopy keys added to customer's key ring.			
Serial number recorded on the owner's supplement pages and owner's manual supplement copy given to the customer and explained.			
Comments:			
Fitted by:			
Checked by:			