

DUAL CAB CENTRAL LOCKING CANOPY

Ascent Canopy AC20C – Toyota Hilux

(2026+ Vehicle Production Onwards)



FITTING KIT: TAILGATE AND HEADBOARD KIT 6178585. TUB MOUNT KIT 6178583

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

IMPORTANT:

- Specific to high series vehicles with roll top tonneau and sailplanes (such as Rogue in Australia), fit kit 6178780 is additionally required with additional wiring and canopy to tailgate top rear corner sealing
- 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 four people will be required to lift the canopy onto the vehicle**).

FITMENT:

- For OE under rail bed liners no trimming is necessary prior to canopy fitment.
- Cabin guards, sports bars, sailplanes and roll top tonneau covers **must** be removed prior to canopy fitment. These can be returned to the customer if required.
- For Electric Vehicle fitments consult the workshop manager in relation to working safely with electric vehicles before beginning fitment.

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.

SAFETY NOTICE WHEN WORKING ON ELECTRIC VEHICLES:

FOR HIGH VOLTAGE (HV) ELECTRIC VEHICLES



Work on and fitting parts to High Voltage (HV) electric vehicles has the potential to involve an interaction with the HV systems and presents significant risks of serious injury or death due to electric shock, arc flashes and potential explosions or fires.

When undertaking work or fitting parts that will involve an interaction with the vehicle's HV system, appropriately qualified personnel must undertake work in accordance with company procedures and local regulatory requirements.

The qualifications required may vary depending on the location or region.

Failure to comply with these requirements and instructions may result in severe injury or death.

Consult your workshop manager before working on EV vehicles.

HAVE AVAILABLE THESE SAFETY ITEMS WHEN FITTING PRODUCT:

• Protective eyewear		• 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:

• Torque Wrench 0-25Nm • Sockets ¼", 8,10 & 13mm, socket extension bar and driver • Spanners, ratchet type, 8, 10 and 13mm. • T30 and T40 Torx Driver • Tape measure • 150mm ruler • Knife • Sharp scissors • Flat file • Angle grinder • Die grinder • Metal primer touch up paint • Engineer's scribe • Drill and drill bits to 10mm • Quicklock G clamp	• Wax and grease remover. • Silicon Caulking Gun • Neutral cure Non-Acetic Silicon • Phillips head screwdrivers • Flat blade screwdrivers • Side Cutters • Wire stripping tool • Electrical crimping tool • Non-permanent marker • Electrical tape • Masking tape • Cleaning cloths / rags • Jig saw / hacksaw for bedliners. • Centre punch • Hammer
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FITTING THE CANOPY IS UNDERTAKEN THE FOLLOWING STAGES:

1. Removing any sports bars, cabin guards and sailplanes from the vehicle's tub
2. Fitting the tailgate cap for door edge sealing.
3. Sealing the front of the tub and fitting the tub mounting brackets.
4. Fitting canopy wiring.
5. Fitting the canopy to the vehicle and sealing the top corners of the tailgate.
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.

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

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

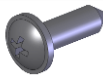
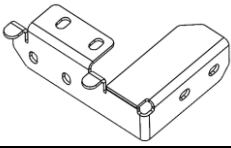
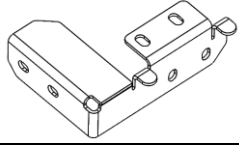
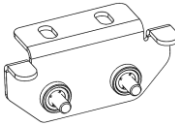
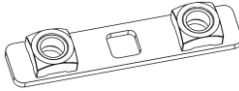
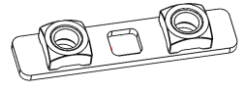
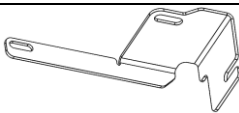
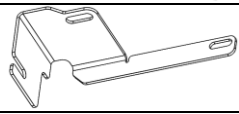
SCREW TORQUES: These must be adhered to avoid warranty issues and should be checked at vehicle service intervals.

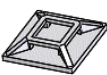
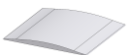
THE FITTING KIT CONTAINS:

Packed under the canopy

6178585 contains the front headboard rail bracket assembly and tailgate cap hardware kit.

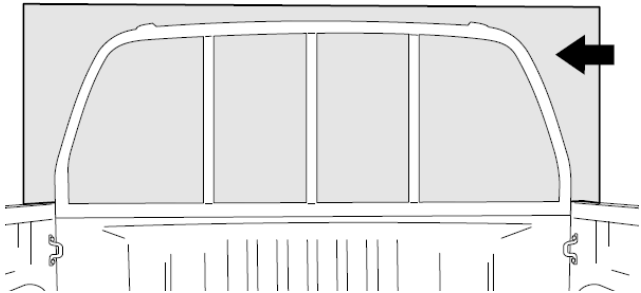
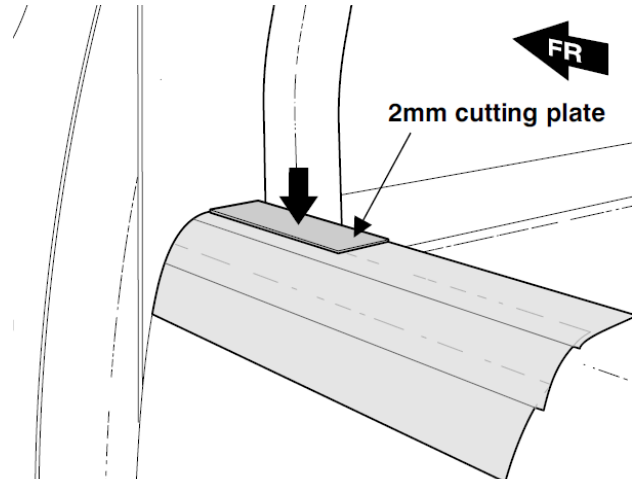
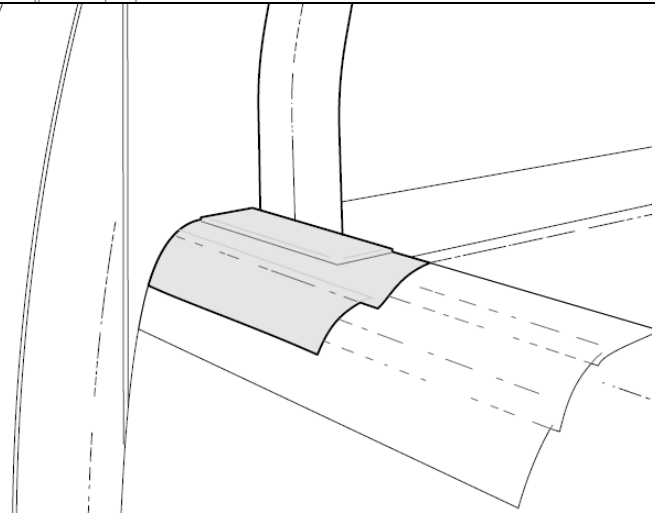
6178583 contains the main hardware kit for mounting the canopy to the vehicle's tub.

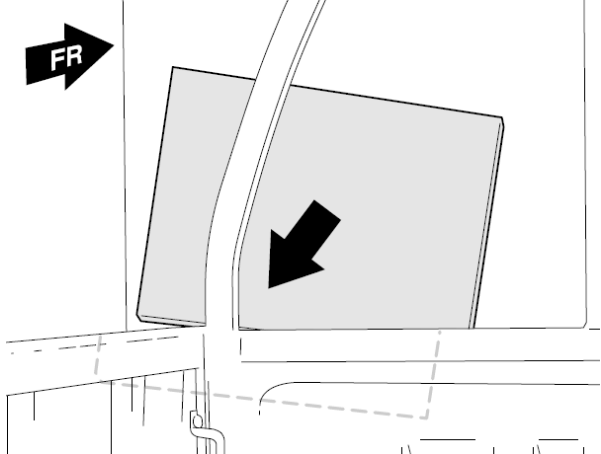
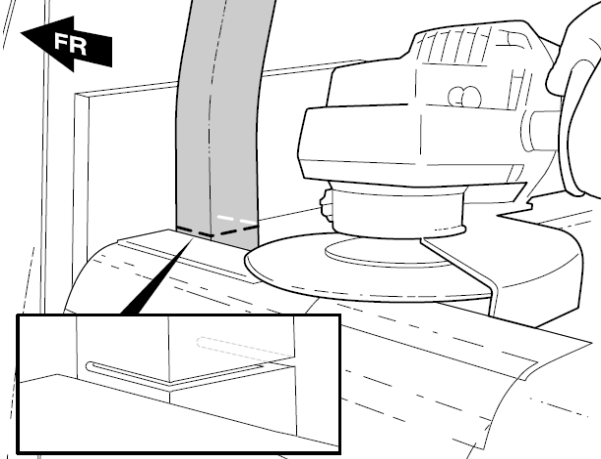
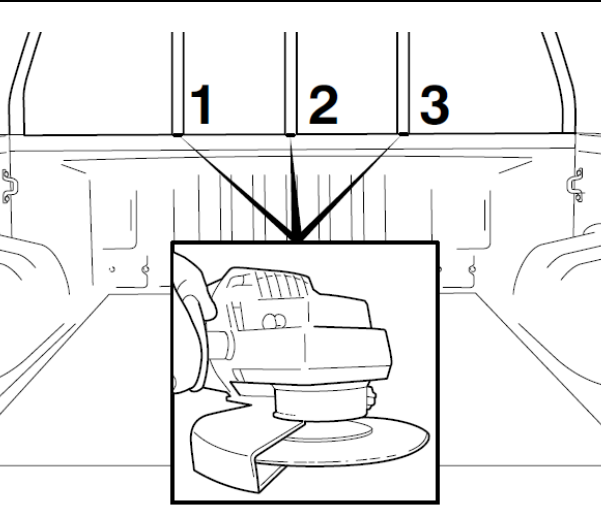
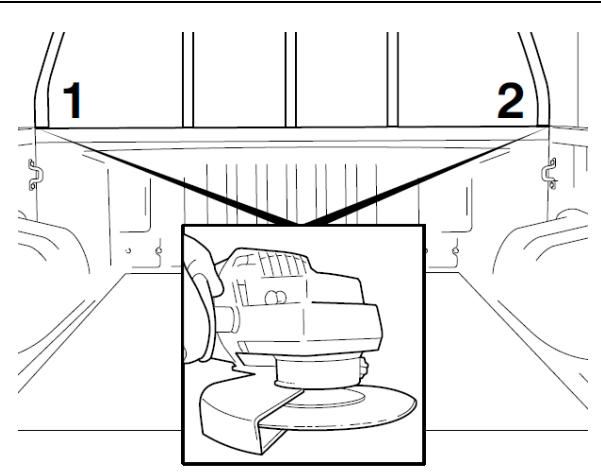
Kit No	Part No	Picture	Qty	Description
1). 6178585 FRONT HEADBOARD RAIL AND TAILGATE CAP KIT	667AQ018		1	BRACKET- FRONT HEAD RAIL ASSEMBLY
	667AQ022		1	ASSEMBLY-TAILGAE CAP
	6151626		6	SCREW- PAN HEAD HI-LO THREAD 16MM LONG
	4584463		6	WASHER 5MM ID X 19MM OD- X 3MM THICK- BLACK
2). 6178583 MAIN CANOPY HARDWARE KIT	667PD046R		1	BRACKET - RIGHT HAND - FRONT TUB CORNER MOUNT
	667PD046L		1	BRACKET - LEFT HAND - FRONT TUB CORNER MOUNT
	667AQ025		2	BRACKET-ASSEMBLY-REAR TUB MOUNT
	667AQ016		2	BRACKET-NUT PLATE 50MM NUT PITCH
	667AQ024		6	BRACKET-NUT PLATE 40MM NUT PITCH
	3199779		2	GRINDING PLATE (DISPOSABLE)
	4655378		2	NUT PLATE - FRONT HEADRAIL
	667PD065R		1	RH REAR TUB CORNER SEALING BRACKET
	667PD065L		1	LH REAR TUB CORNER SEALING BRACKET
	6602018		5	ALCOHOL WIPES

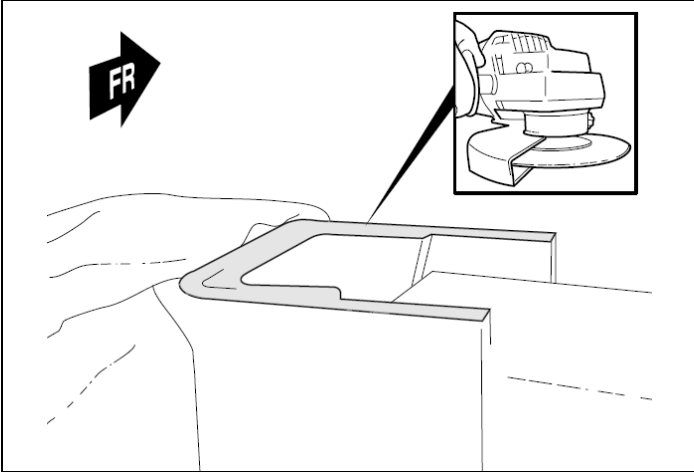
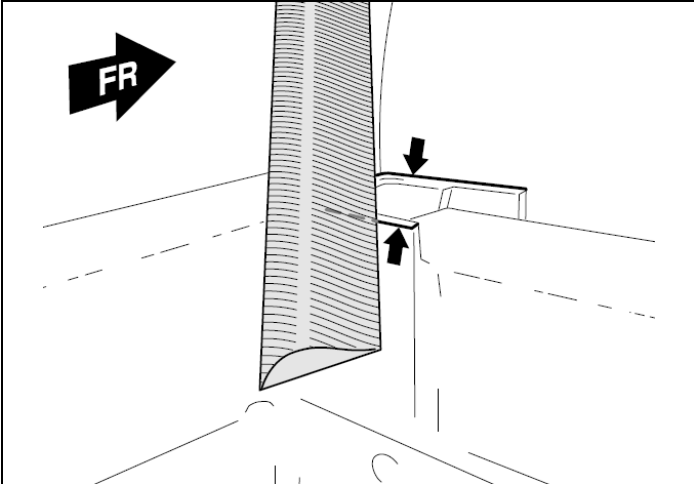
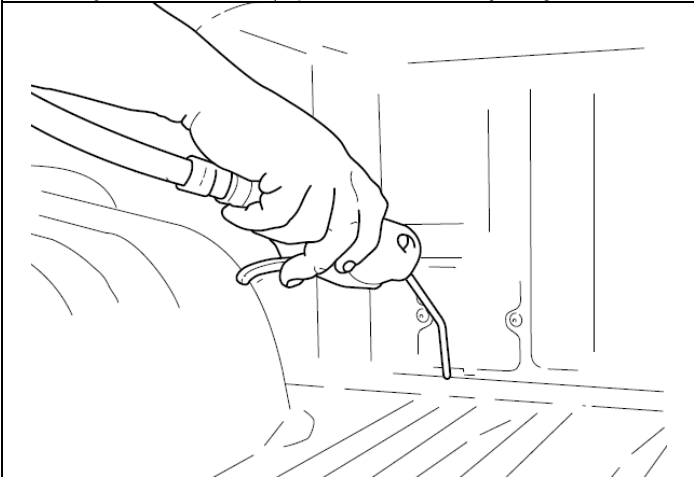
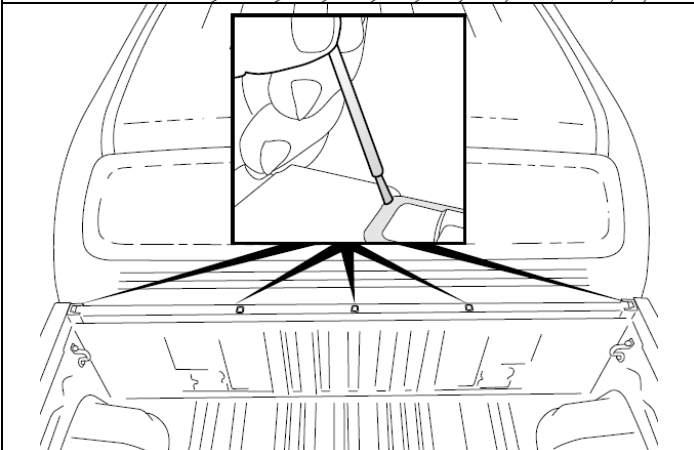
665505		1	RUST INHIBITOR SACHET
665044		2	PRIMER STICK
667PJ006		1	ELECTRICAL LOOM VEHICLE CANOPY PATCH HARNESS
668PB015		2	FOAM ANTI RATTLE 30mmx150mm STRIPS
668PJ015		1	ELECTRICAL RELAY BOX
180302		12	CABLE TIES 200mm LONG
6821293		1	CABLE TIE BASE
668PM005		1 PAIR	FRONT TUB CORNER SEAL BRIDGE
665076		2	BUMPON STRIP OF 5 PIECES
668PB006		5 PAIR	DIE CUT BLACK STICKERS
668PB023		1 PAIR	REAR SEALING PAD – FOAM TAPE
6151625		12	M8 x 1.25 x 25 TORX PAN HEAD SCREW – BLACK (T40)
6151881		4	M8 x 1.2 x 35 TORX PAN HEAD SCREW – BLACK (T40)
4581303		16	M8 x 25.4 OD x 3 WASHER -- BLACK
4581082		4	M6 x 20OD x 1.2mm FLAT WASHER BLACK
6151228		2	M6 X 30mm BLACK HEX HEAD SCREWS GD 8.8
6151213		2	M6 X 20mm BLACK HEX HEAD SCREWS GD 8.8
6151223		4	M6 x 1 BLACK NYLOC NUT

SECTION 1: PREPARING THE VEHICLE TUB – REMOVAL OF CABIN GUARDS, SPORTS BARS, SAILPLANES AND ROLL TOP TONNEAU COVERS.

- 1.1) Remove any sports bars, cabin guards, sailplanes or tonneau covers fitted and return any items to the customer if requested to do so.
- 1.2) Bed liners **DO NOT** require removal based on OEM under rail supplied products.

	1.3) If your vehicle is fitted with a cabin guard frame it must be removed. 1.4) Slide a sheet of cardboard or similar between the cabin and Ute body to protect the back of the cabin.
	1.5) Apply 200mm lengths of overlapping masking tape to the top and side of the tray, up to the cabin guard main support leg on both sides of the tub. 1.6) Position the steel protective grinding plates (3199779) next to the cabin guard main support leg on both sides of the tub.
	1.7) Secure the protective steel grinding plate to the tray body by covering it completely with masking tape as shown.

	1.8) Insert a suitable protective wooden board of adequate thickness between the cardboard and the cabin guard main brace as shown.
	1.9) Using an angle grinder, partially cut through the rear and side faces of the cabin guard main support legs.
	1.10) Completely cut through the inner bars (if fitted) at the base, flush to the tub, as shown. Move the protective board to each bar before cutting.
	1.11) Cut completely through the remaining rear faces of the LH & RH cabin guard main side legs, flush to the grinding plates in step 1.6. 1.12) Remove the cabin guard from the vehicle and discard it.

	1.13) Move the protective board before cutting. Carefully cut away any remaining metal not flush with the top of the vehicle's side tub rail panels.
	1.14) Using a metal file, de-burr the outer and inner edges of the remaining portions of the cabin guard support legs on the vehicle's tub.
	1.15) Using compressed air, completely blow out any metal filings / swarf in the tray floor.
	1.16) After removal, touch up the bare metal with primer, and then fill any holes exposed from the removal of the cabin guard with a <u>neutral cure</u> silicone.

SECTION 2: FITTING THE TAILGATE CAP FOR DOOR EDGE SEALING



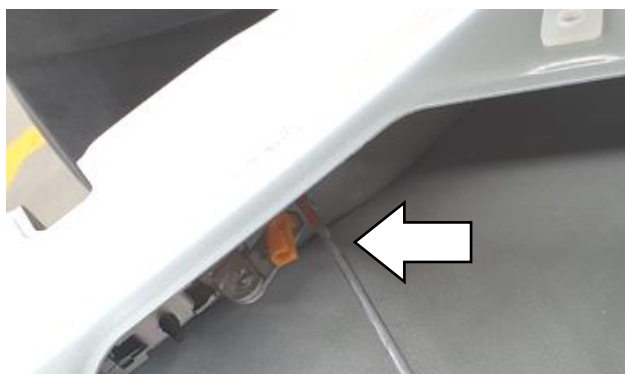
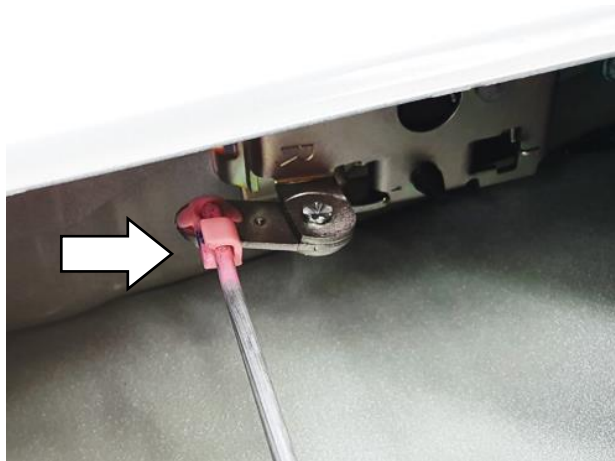
2.0) Place tailgate in down position.



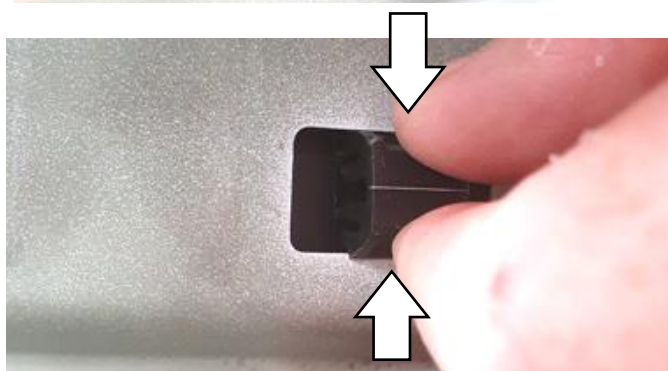
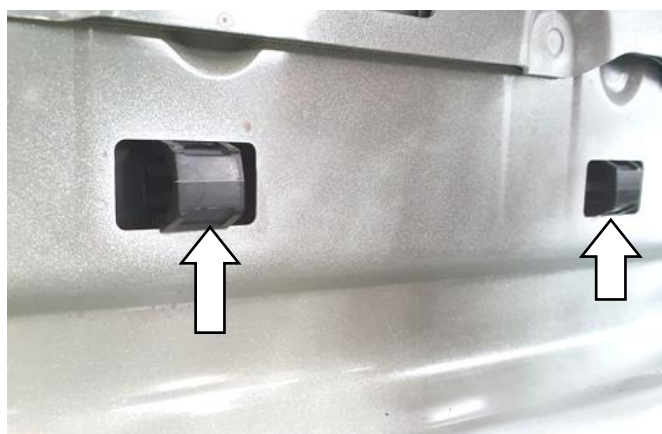
2.1) Remove all the Torx T30 screws holding the OE plastic tailgate cap in place on the back side of the tailgate. Retain the screws to re-use.

2.2) Use Phillips head screwdriver driver to remove tailgate metal access cover. Retain all parts to reuse.





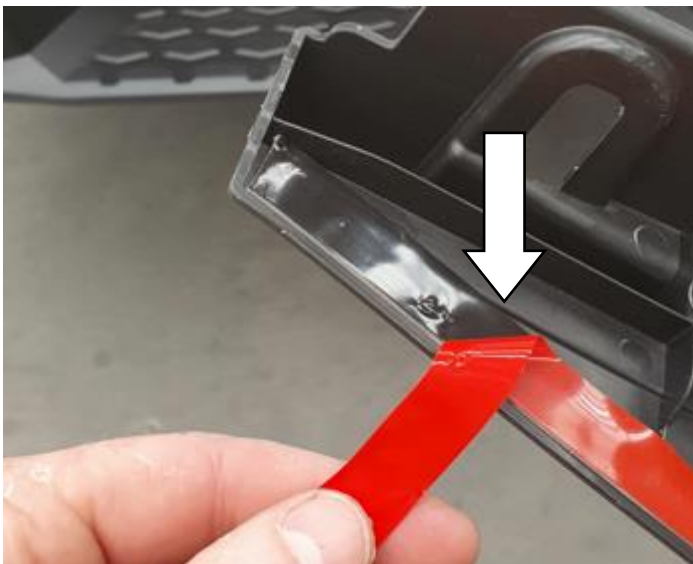
2.3) From inside tailgate panel cavity, unclip the two pull rods from the tailgate handle mechanism.



2.4) From inside the tailgate panel, squeeze the barbed clips to remove the plastic OE tailgate cap from the sheet metal of the tailgate to release it.



2.5) Clean the top leading edge of the tailgate with an alcohol wipe (602018) and allow it to dry. Use a primer stick (665044) along the top flat face **ONLY**, sparingly, without spillage and allow to dry.



2.6) Remove 50mm of the tape backing liner on the new tailgate cap assembly (667AQ022) at each end.

LOCATE NEW CAP IN
POSITION



2.7) Close the tailgate. Position the assembly to align it to the top of the tailgate. The locator spigots on the new tailgate cap moulding will provide accurate positioning into the tailgate sheet metal.

2.8) Once positioned, open the tailgate



2.9) From inside the tailgate cavity, beginning at the ends, progressively screw down the new tailgate cap firmly in six places using the Hi-Lo screws (6151626) and M5x19 x3mm thick washers (4584463) on the inside. Do this by hand using a Phillips head screwdriver to avoid stripping the screws.

Refit both the metal inspection panel and (if fitted) tailgate liner.



2.10) While pushing down on the new tailgate cap, with a T30 Trox drive, screw down tailgate stop using the original retained OE screws in six places. Hand-tighten, do not use an electric drill and do not overtighten to avoid stripping.



2.11) Close the tailgate and slowly pull out the remaining tape liner. Then push down all along taped edge to wet out tape to sheet metal.

the new tailgate cap installation is now complete.

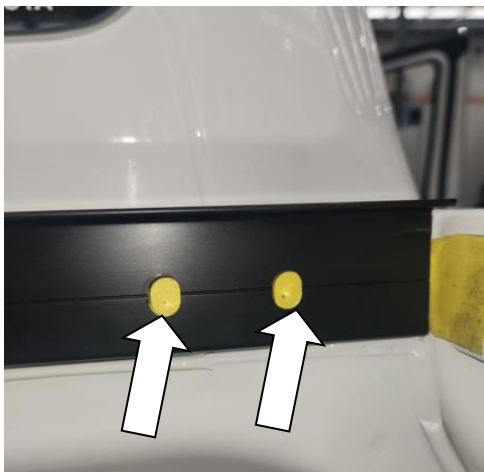
SECTION 3: SEALING THE FRONT CORNERS OF THE TUB, FRONT HEADER RAIL AND CANOPY MOUNTING BRACKET INSTALLATION.



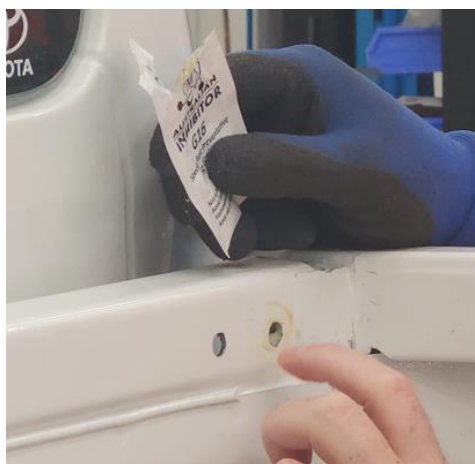
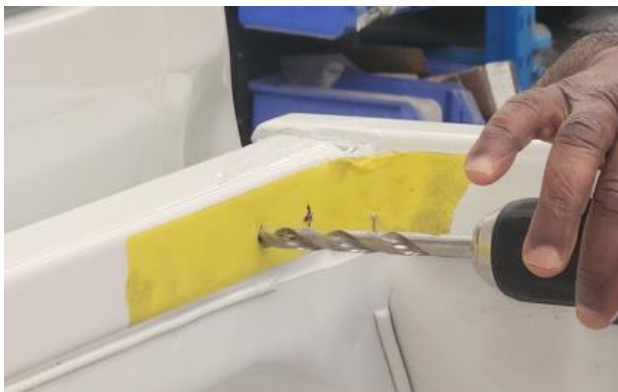
- 3.0) **For vehicles fitted with cabin guards ONLY that were removed in Section 1:**
Apply masking tape across the front inner corners of the vehicle's tub to approximately 200mm inboard.



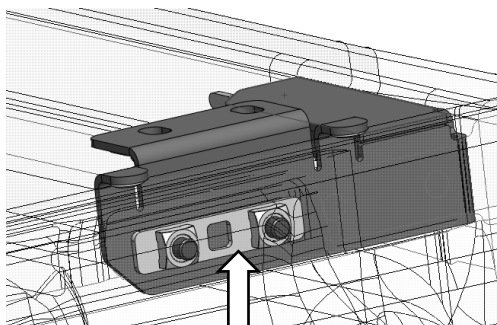
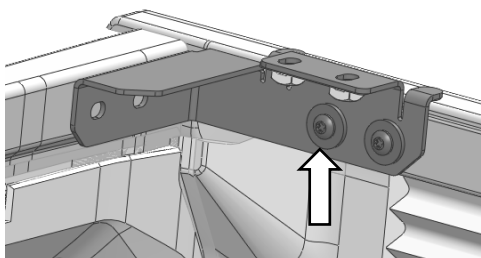
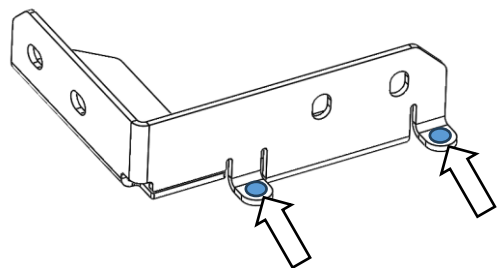
- 3.1) **For vehicles fitted with cabin guards ONLY that were removed in Section 1:**
Place the front header rail bracket assembly (667AQ018) down on the front wall of the tub with the foam tape underneath the header rail pressed against the top of the front upper surface of the tub. Locate each end of the assembly **with even gaps to both sides of the tub.**



- 3.2) **For vehicles fitted with cabin guards ONLY that were removed in Section 1:**
While pressing down on the header rail, mark through the two holes in each end of the header rail the centre points, aligning to the groove in the header rail

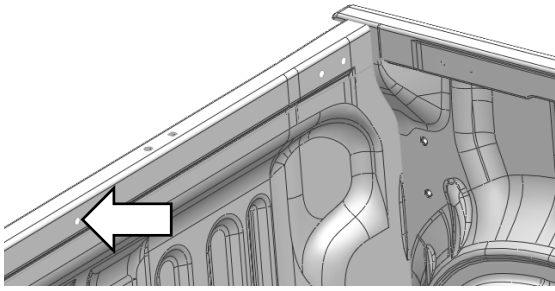


3.3) **For vehicles fitted with cabin guards ONLY that were removed in Section 1:** Centre punch the centres of the holes and drill them out to 10mm. Deburr the holes. Remove the masking tape and apply rust inhibitor (665505) to the edges of the drilled holes.

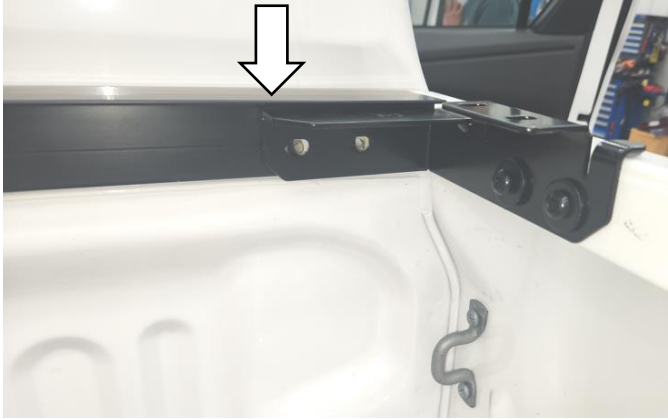


3.4) **For all vehicle variants:**
Place two bumpsons (665076) on to the tags of the front tub corner bracket (667PD046R). Repeat for opposite side (667PD046L).

3.5) Loosely bolt up the right-hand front corner mount bracket (667PD046R) using two M8 x 25 OD x 3mm thick flat washers (4581303) and two M8 x 25 Torx button head screws (6151625) through the bracket and into the side of the tub and into the **40mm pitch nut plate** (667AQ024) on the inner side of the tub. Tighten, but allow brackets to still be slightly loose in position. The picture shows the arrangement for the right-hand front corner of the tub. Repeat for the opposite side using (667PD046L) bracket.



3.6) Place black stickers (668PB006) over the holes on the vertical face of the front wall of the tub near the top edge (other than in the two holes in each corner).



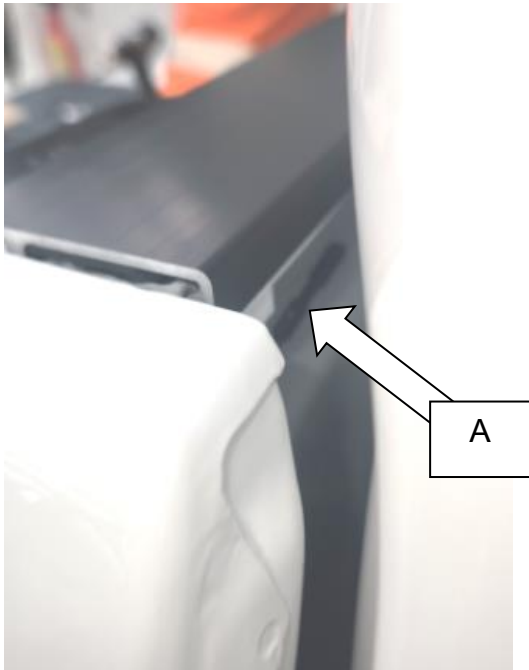
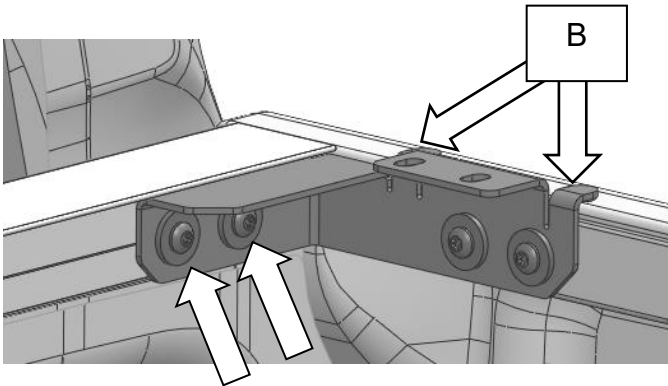
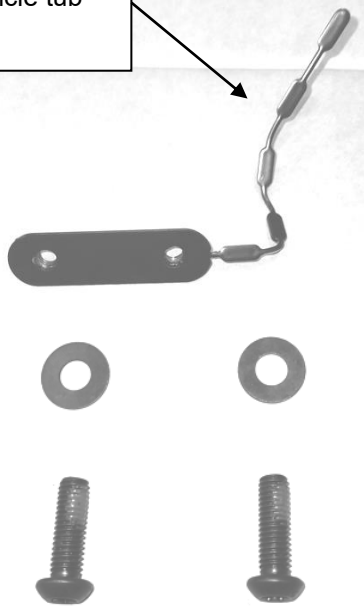
3.7) Place in the front header rail bracket assembly (667AQ018) down between the front corner mount brackets and the front wall of the tub with the foam tape underneath the header rail pressed against the top of the front upper surface of the tub. Locate each end of the assembly with even gaps to both sides of the tub.



3.8) Fit between the cabin and the tub the nut plate (4655378) to align to the two holes in the corners of the tub. The end of the nut plate may be bent to a shape to provide access for fitment. Place masking tape on the back of the cabin before it is inserted to prevent scratching the cabin's paint work.



Bend down in
behind vehicle tub
("A")



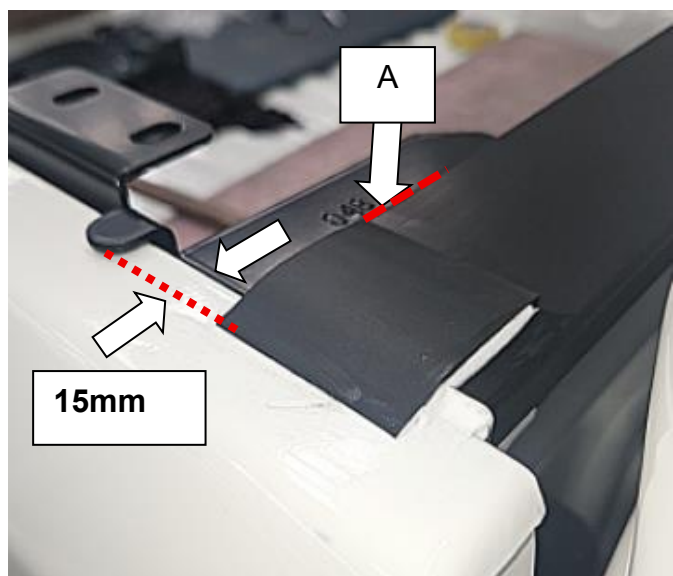
3.9) Loosely bolt up the header rail through the front corner mount brackets (667PD046R/L) using two M8 x 25 OD x 3mm thick flat washers (4581303) and two M8 x 35 Torx button head screws (6151881) per side, through the header rail assembly and through the tub into the nut plate (4655378) on the other side of the tub between the cabin. Tighten, but allow brackets to still be slightly loose.

3.10) Once assembled, bend the tag from the nut plate down in behind the vehicle's tub and ensure it cannot make contact with the cabin. (Location "A")

3.11) Press down on the then header rail assembly to engage the foam tape to the top of the tub and ensure the top of it is level to the sides of the tub on both sides.

3.12) Do up the front M8 Torx screws through the corner brackets and front header rail first, to **20Nm Torque whilst ensuring the tub mount bracket top face tags are engaged against the top face of the sides of the tub. (Location "B").**

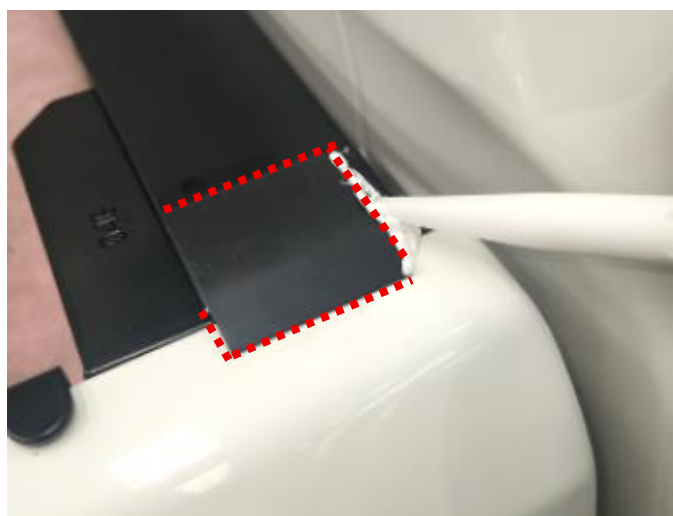
3.13) Then tighten the M8 Torx screws through the brackets (667PD046R/L) on the sides of the tub to **20Nm Torque whilst also ensuring the tags on brackets are engaged against the top face of the sides of the tub. (Location "B").**



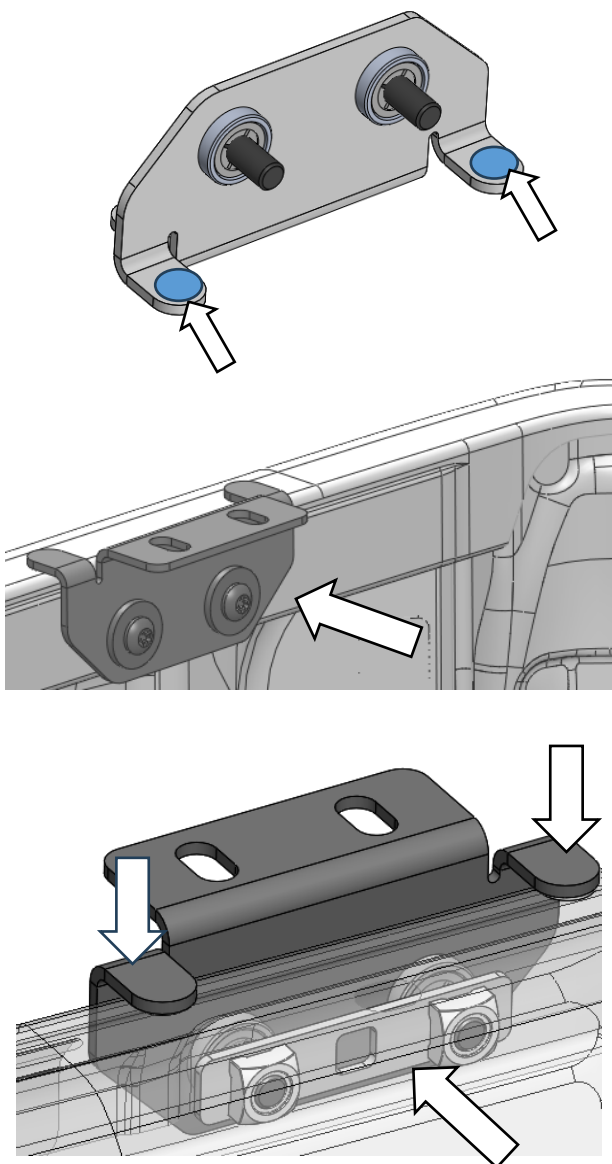
- 3.14) Clean the area with an alcohol wipe (6602018) across the front header rail and the front tub corners and allow to dry. First, without removing the self-adhesive backing paper, locate a bridge seal (668PM005) aligned with the inner edge of the front header rail at "A". Apply primer stick (665044) to the area where the bridge seal is to be applied, sparingly, without spillage onto the paint work and allow to dry. Apply at each end of the front header rail assembly, the bridge seal (668PM005), by removing the backing paper off the adhesive side. Apply pressure to stick it down to the dimensions shown opposite.
- 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

Repeat on the opposite end of the front header rail.



- 3.15) Apply (neutral cure non-acetic) silicon to the join between the front header rail to tub sides from underneath the bridge and at the front and the inboard side, to stop water leaks. Also apply a small amount around the edge of the the seal bridge.
- 3.16) The bridge seal provides a transition from the front tub mount rail to the top of the side tub walls to provide a sealing surface to the bed seal that is on the underside of the canopy.
- APPLY SILICON AS SHOWN OR**
FRONT CORNER WATER LEAKS
COULD OCCUR
- 3.17) Carefully, clean off excess with a rag applied sparingly with silicon remover, or wax and grease remover and make the joins neat.



3.18) Place two bumpers (665076) each on to the tags of the rear tub mount bracket assemblies (667AQ025).

3.19) At the rear end of the tub on the right-hand side locate the two rear most holes in the tub inner lip. Locate the rear tub mount bracket assembly (667AQ025) into these holes and into a **50mm pitch nut plate** (667AQ016) on the inner side of the tub lip. Tighten the Torx screws to **20Nm Torque whilst ensuring the tub mount bracket top tags are engaged against the top face of the sides of the tub.**

Repeat the above with the second (667AQ025) bracket assembly on the other side of the tub.

SECTION 4: FITTING THE CANOPY WIRING LOOM

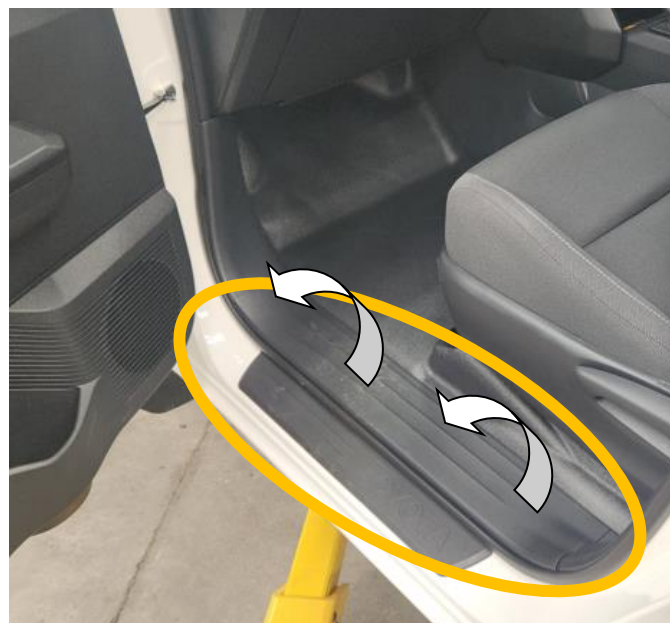


**Main
patch
loom**



**Patch loom for
connection
behind LH front
floor kick panel**

4.1) The vehicle electrical patch wiring loom (667PJ006) has two parts. The main patch loom and the patch loom to plug into the connectors behind the left-hand passenger front floor side kick panel.



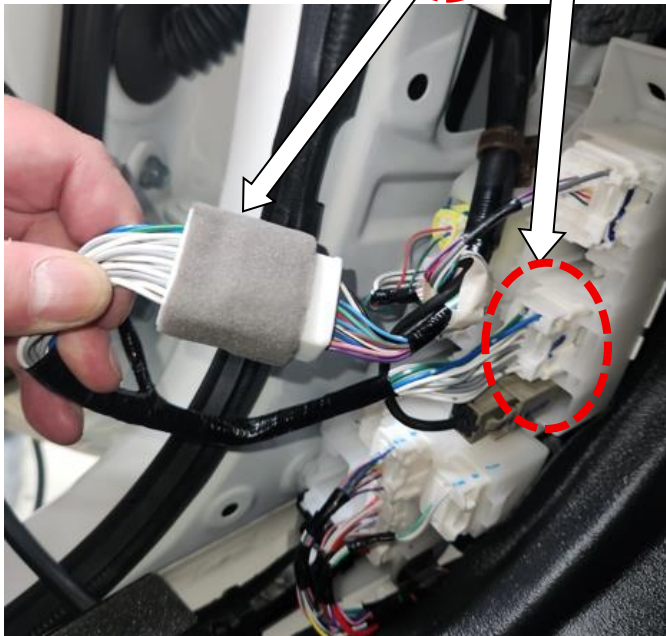
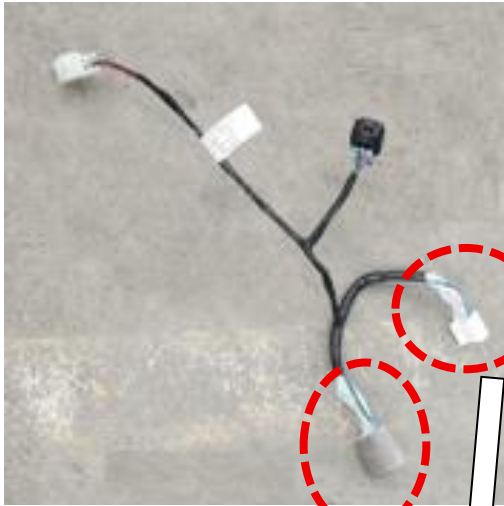
4.2) Go to the left-hand (passenger's) side of the vehicle. Open the front door and remove the lower scuff plate plastic moulding by prising it upwards.



4.3) Undo the retaining nut on the left-hand passenger side front kick panel and pull the kick panel cover towards the foot well, to release the trim clips and expose the electrical connector block behind it.



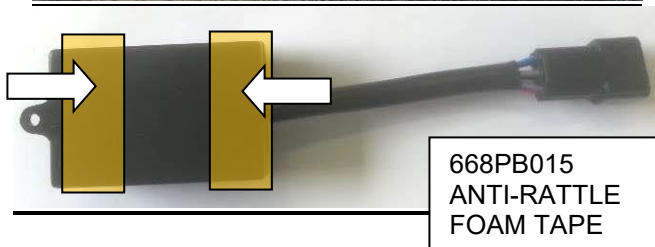
4.4) Locate the OEM connector in the middle and towards the inboard side of the connector block and unplug it.

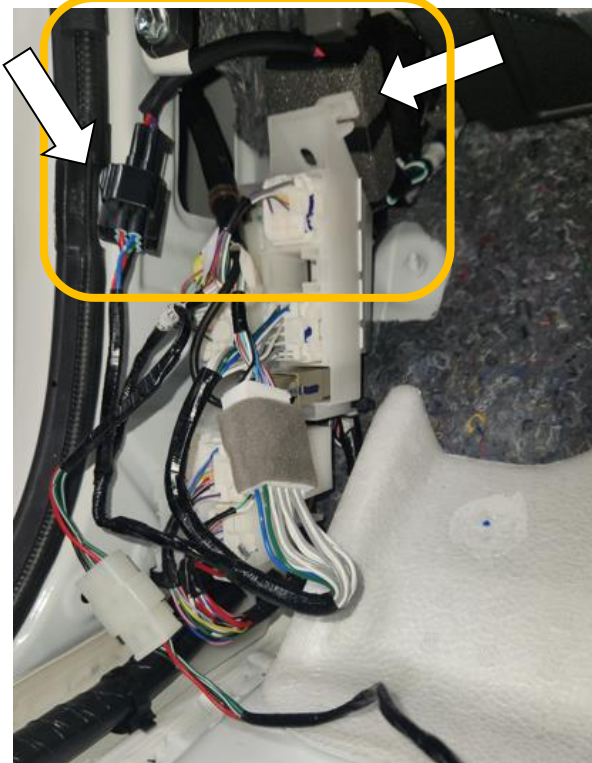


4.5) Plug the male connector from the patch loom from the 667PJ006 kit into the connector on the OEM connector block. Connect the OEM male connector from the vehicle into the female connector of the patch loom.



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





4.7) Connect the latch relay to the patch harness connector in the foot well. Position the latch relay up over the top of the OEM kick panel electrical connector block and cable tie in place.



4.8) Lift the floor carpet in the front foot well and push out the floor grommet from the inside



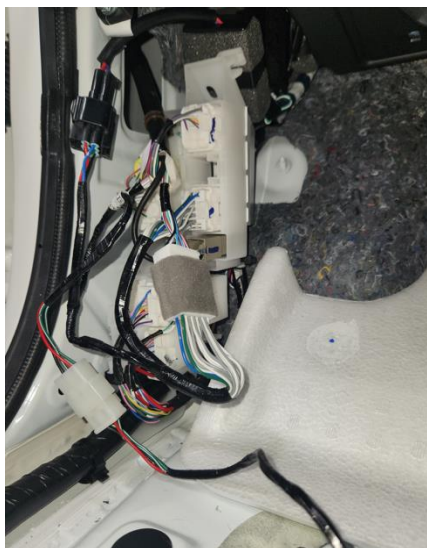
4.9) Thread the eye terminal end of the main patch loom (667PJ006) down through the hole in the floor and pull them through. Also do this with the white canopy connector on the main patch loom.



4.10) Seat the grommet on the loom into the hole in the footwell. Silicon seal around this.



4.11) Connect the white connectors between the two parts of the canopy patch loom (667PJ006) at the foot well kick panel area.



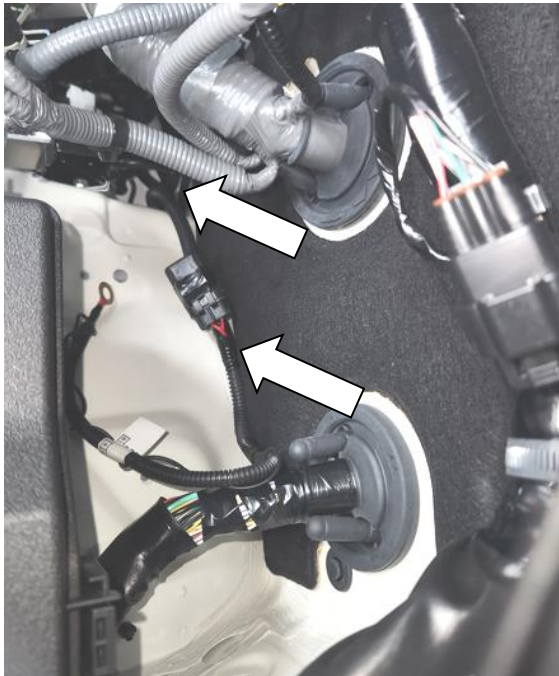
4.12) Neaten up the electrical looms into the kick panel footwell space so the kick panel cover can be refitted.



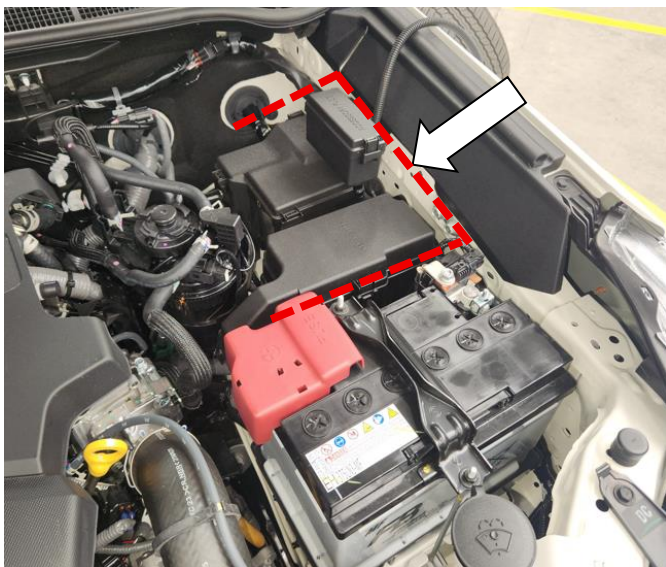
- 4.13) Reseat the floor carpet. Fit the kick panel cover and the retaining nut. Refit the door sill scuff plate.



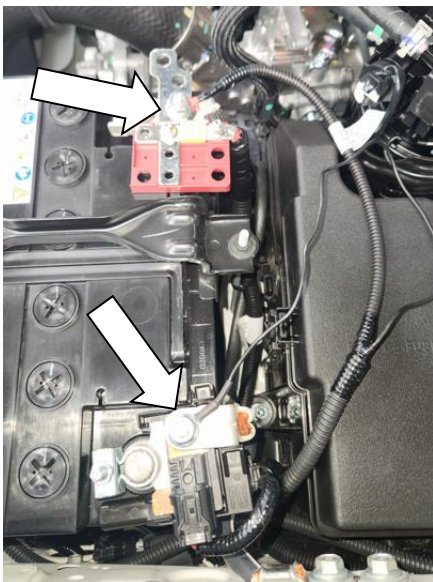
- 4.14) Under the vehicle, run the wiring with the two eye terminals forward along the top of left-hand chassis rail. Locate the large hole square hole through the chassis rail in the front wheel well area. After pulling all the loom to remove slack from the floor grommet position towards the front, cable tie the loom to the top of the chassis rail. **Ensure the loom is NOT tied to brake or fuel lines.**



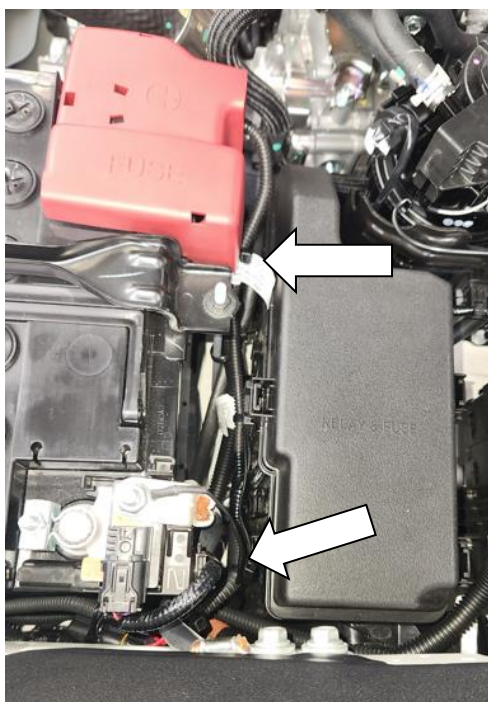
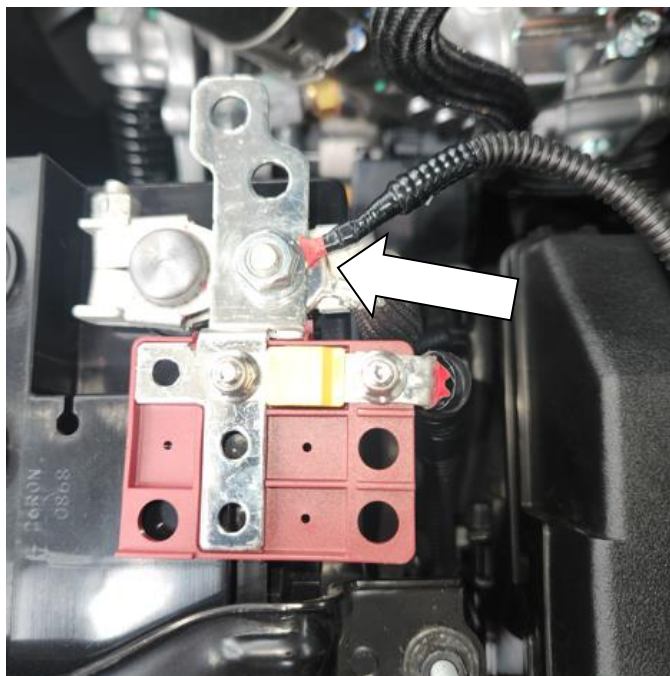
4.15) Open the bonnet and pull the loom end with the eye terminals up against the fire wall in the back left-hand corner.



4.16) Route the loom around the left-corner of the engine bay and along the left-hand fender and across between the battery and fuse box.

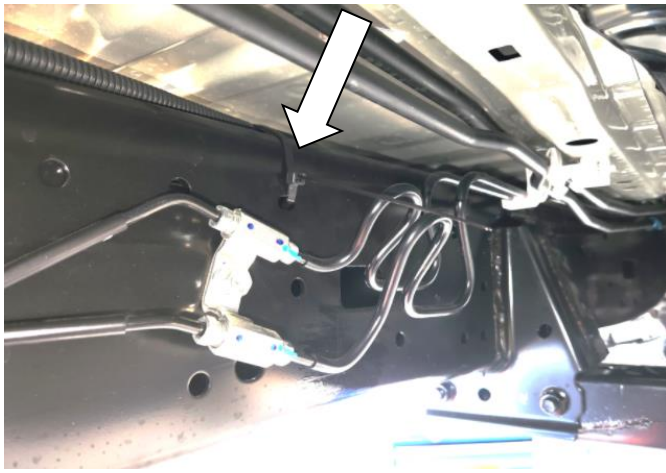


4.17) Connect the red eye terminal to battery positive and the other eye terminal to the negative terminal of the battery.



4.18) Cable tie the loom in place to the OEM battery cables in two places and refit the red positive battery terminal cover.

4.19) Cable tie any excess loom inside the lower left-hand headlamp recess. Close the bonnet.



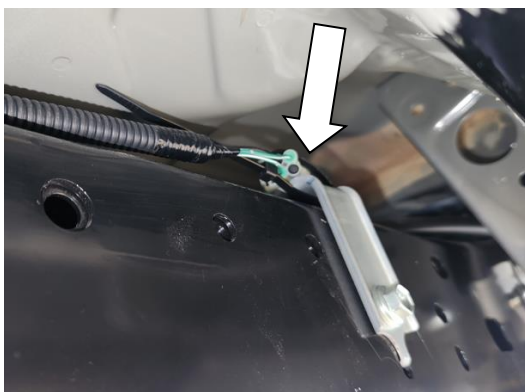
4.20) Back under the vehicle, where the grommet through the floor exists, run the white canopy connector end of the canopy patch loom rewards along the top of the left-hand chassis rail. Cable tie the loom through the chassis rail holes above the brake lines.



4.21) Running further reward, cable tie the canopy loom to the vehicle's OEM wiring harness where it goes over the top of the chassis rail.

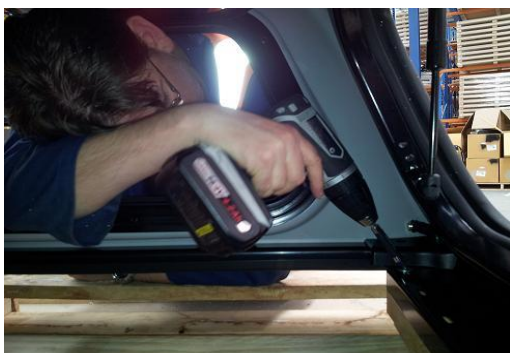


4.22) On the left-hand chassis rail, near the rear chassis crossmember. Cable tie the loom through the holes in the chassis rail so the loom sits on top of the chassis rail.



4.23) Under the rear passenger door on the left-hand chassis rail, cable tie the canopy connector to the bracket on the chassis rail.

SECTION 5: FITTING THE CANOPY



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

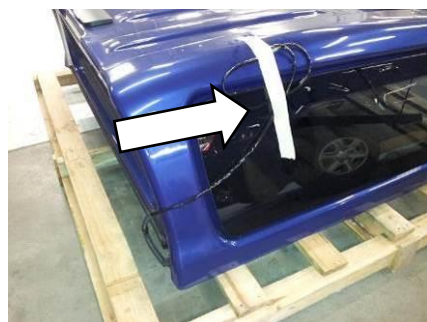
5.1) The front lift up window can be unlatched by reaching in underneath the canopy on the pallet and pushing forward on the glass in car position, to push the latch button upwards on both latches to unlock the window.



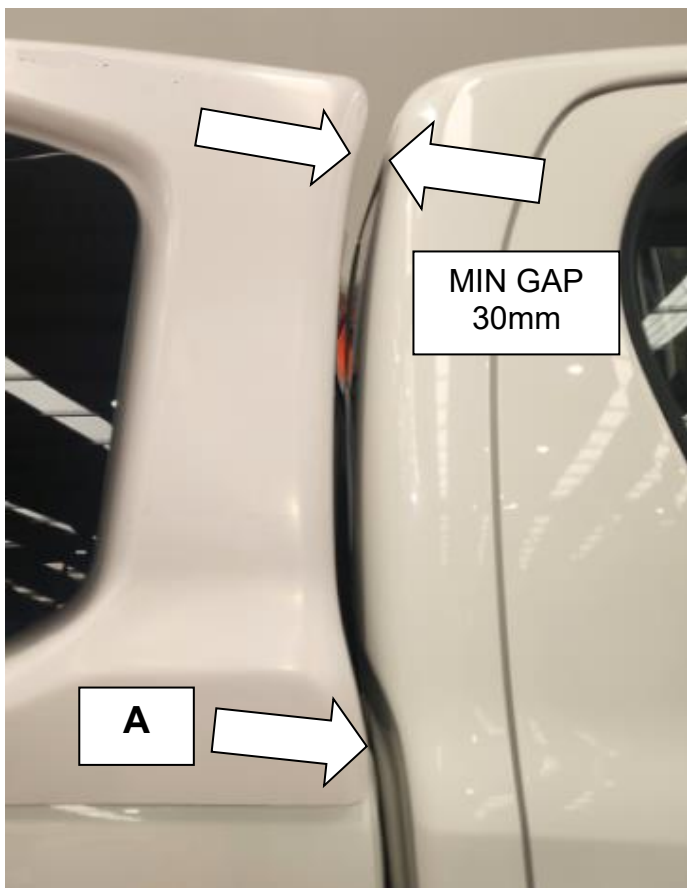
5.2) Clean the front window of the canopy on the outside.

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 side 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 FRONT OF TUB

Canopy shell edge

VEHICLE TUB FRONT CORNER AT "A"

- 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 against the top of the tub.

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 cap and even at the lower door glass edge on both sides.

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

Check minimum gap from canopy front pillars and cabin is 30mm at the location shown opposite, of the front pillar of the canopy to the vehicle's cabin. (Use a socket measured to the 30mm diameter as a checking aid slid between the canopy and the 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 cap evenly both sides without excessive force on glass to close.
- The gap is even between the door and shell on both sides.
- The gap of the door glass lower edge has gap to the tailgate cap to open.

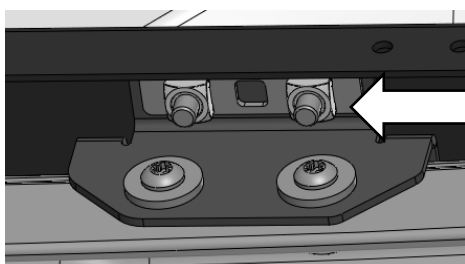
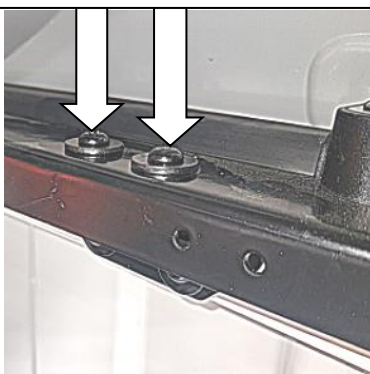
M8X25 TORX SCREWS (6151625) WITH M8x25.4x3 28 WASHER (4581303) ABOVE AND (667AQ024) 40MM PITCH NUT PLATE ON THE UNDERSIDE



5.9) On the inner edge of the front corner of the base rail inside the canopy, assemble two M8x25mm Torx head screws (6151625) with two M8x25.4x3mm washers (4581303) down in through the top of the base rail and through the two holes in the front corner mount bracket (667PD046R). On the underside use **the 40mm pitch nut plate (667AQ024)**. **Tighten the M8 Torx screws to 20Nm.**

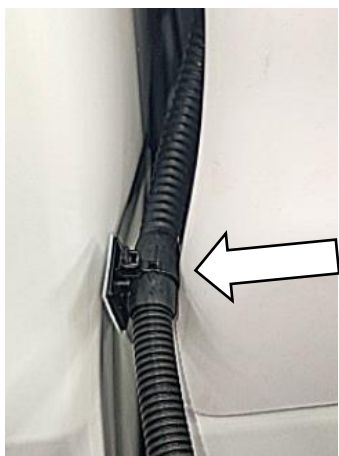
Do this for both sides.

M8X25 TORX SCREWS (6151625) WITH M8x25.4x3 28 WASHER (4581303) ABOVE AND (667AQ024) 40MM PITCH NUT PLATE ON THE UNDERSIDE



5.10) On the inner edge of the rear corner of the base rail inside the canopy, assemble two M8x25mm Torx head screws (6151625) with two M8x25.4x3mm washers (4581303) down in through the top of the base rail and through the holes in the rear corner mount bracket assembly (667AQ025). On the underside use **the 40mm pitch nut plate** (667AQ024). **Tighten the M8 Torx screws to 20Nm.**

Do this for both sides.



CLEAN AND PLACE CABLE TIE BASE ON THE CABIN



5.11) 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 middle of the tube of the rubber grommet). Orientate the cable tie base so the adhesive side is towards the cabin.

5.12) Reaching between the tub and cabin on with an alcohol wipe (6602018), clean an area on the back of the cabin to where the cable tie base will be fitted.

5.13) Peel the tape backing film off the cable tie base (6821293) and drop the canopy loom down between the cabin and tub.

5.14) Reaching in between the cabin and the tub, press the cable tie base firmly onto the cabin. Ensure it has adhered firmly by applying pressure.



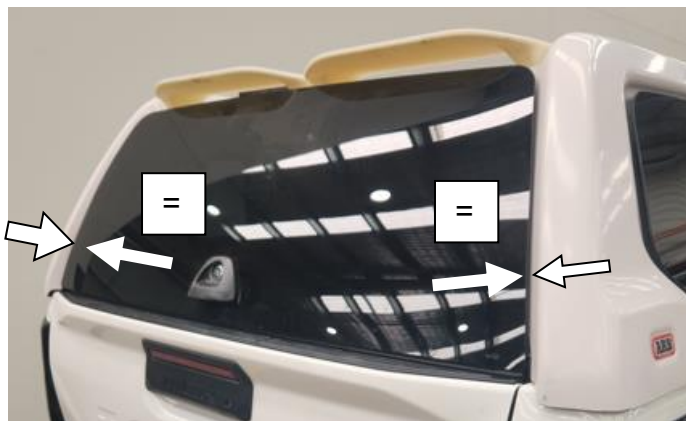
5.15) Connect the canopy wiring connector to the end connector of the canopy wiring harness (667PJ006) fitted to the vehicle, in the area above the left-hand chassis under the rear of the vehicle's cabin.

5.16) Cable tie the remaining wiring harness up in the cavity and tie it off to the bracketry mounted on the chassis. **Avoid stress on wiring at the back of connectors.**

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

5.18) 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.

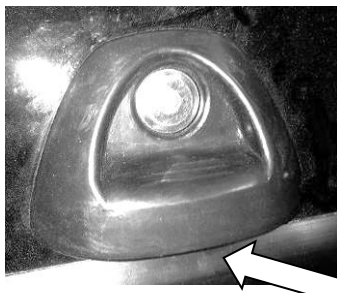
5.19) Turn the interior light to the "II" position that the interior light turns off when the door is closed.



5.20) Two 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.

5.21) 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 to allow actuation of the lock mechanism. This should allow the door to open properly and evenly both sides.

Two people will be required to re-adjust the door glass gap at the sides if the canopy has to be moved.



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



5.22) 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 must not be below 9mm. Move the canopy rearward if required.

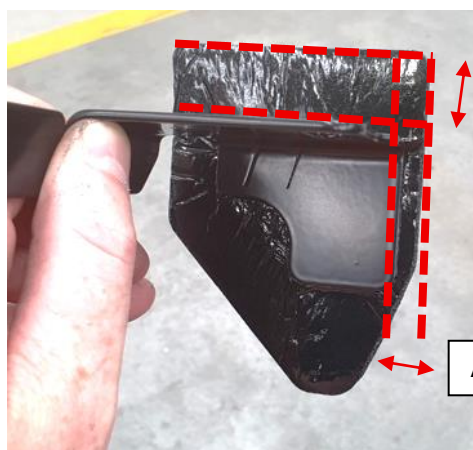
If there are issues with the rear door operation being uneven on each side, refer to Section 6.

Tighten the Torx screws through the canopy's base rails to 20 Nm to resecure the canopy's position if it was necessary to move the canopy's position on the tub.

Not to be less than 7mm



5.23) Position the canopy so the lower rear door glass edge's sash seal is sealing well and evenly along it's length to the tailgate cap. **Measure with a ruler vertically between the door glass lower edge to the top of the tailgate cap. (This distance must not be less than 7mm and should be even). 9-10mm is nominal condition.**



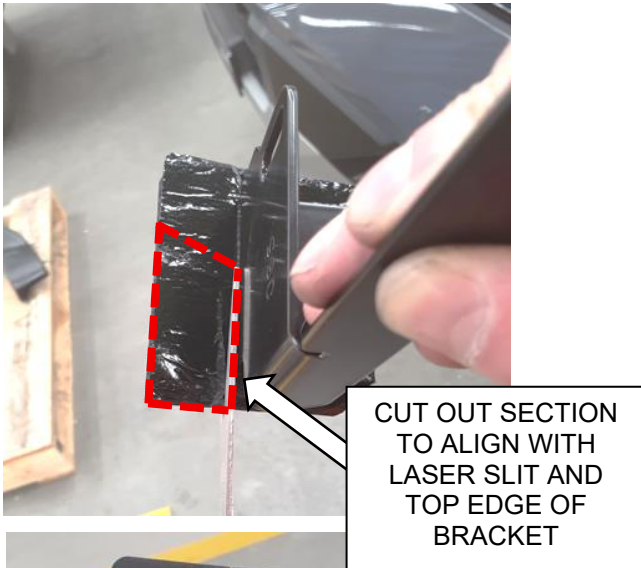
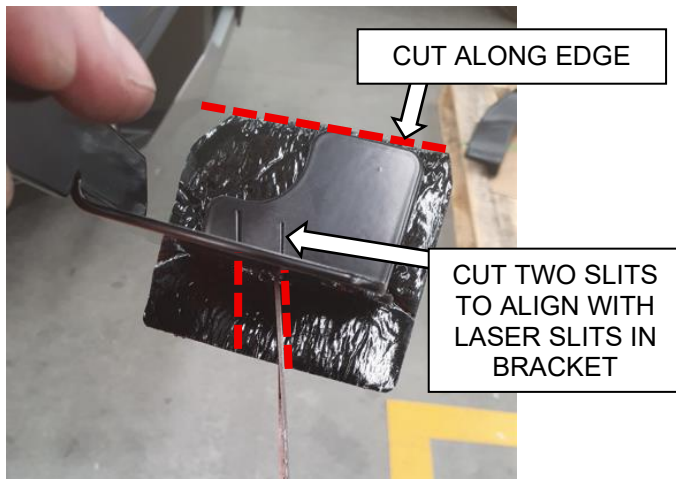
Align 36 mm

Align 5 mm

SPECIFIC TO VEHICLES WITH ROLL TOP TONNEAUS AND SAILPLANES (SUCH AS ROGUE IN AUSTRALIA) AN ALTERATIVE FITTING KIT FOR CANOPY REAR CORNER TO TAILGATE SEALING IS REQUIRED. PLEASE REFER TO INSTRUCTIONS WITHIN KIT 6178780 FOR FITTING STEPS TO END OF STEP 5.37.

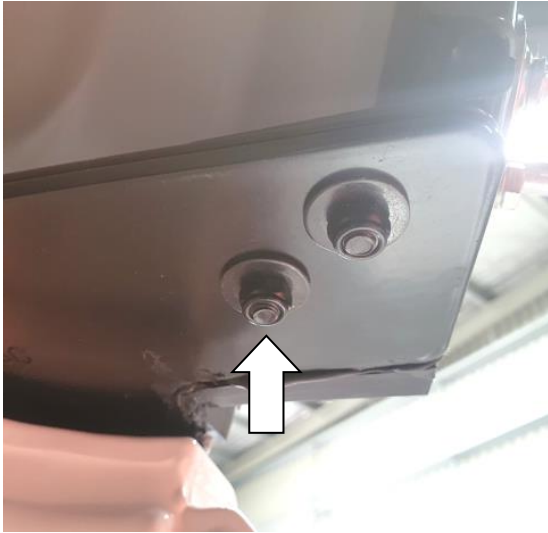
5.24) Adhere the foam sealing pads (668PB023) to the larger face of the pair of rear tub corner sealing brackets (667PD065R/L) . Shown opposite is the right-hand bracket.

5.25) Align top edge of pad 36mm from top of bracket and 5mm from edge right hand edge.



5.26) With sharp scissors cut two slits in the pad to the top edge of the bracket edge. Align the slits to be cut with slits visible on the face of the bracket.

5.27) Make a third cut along the top edge of the bracket to the first slit in the pad and remove foam section from seal as shown opposite.



5.28) Open the tailgate. Inside the canopy's rear corner on the right-hand side, remove the bolt through the door frame and the canopy base rail in the outboard location and replace it with M6 x 30mm long hex bolt (6151228) and a retained washer. Retain the other washers and discard the M6 nyloc nuts. Both Sides.



5.29) Locate and loosely assemble, the right-hand rear tub corner sealing bracket (667PD065R) with the rear leg inside the base rail return flange and the bracket upper face up to the underside of the base rail beneath the door frame with it's slot over the new M6 x 30 bolt.

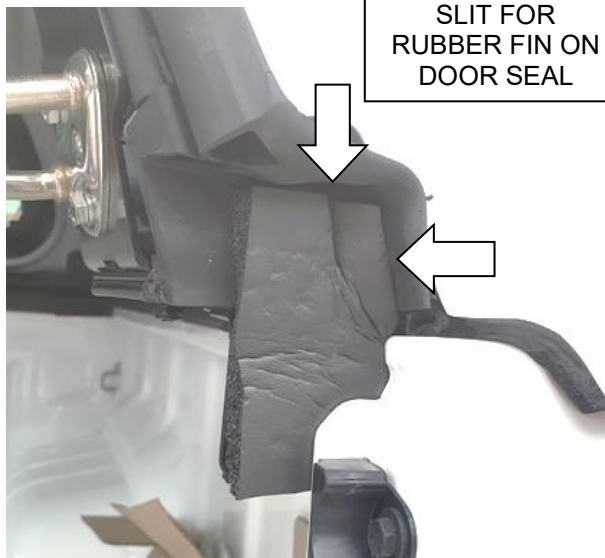
5.30) Loosely assemble, new M6 nyloc nut (6151223) and M6 x 20mm x 1.2mm thick washer (4581082) to underside of door frame bracket to the new M6 x 30 bolt.

Tighten, but allow the bracket to move forward and aft freely.



5.31) Through the base rail return flange to the rear tub corner sealing bracket, loosely assemble M6 x 20 bolt (6151213) with M6 x 20 x 1.2 washer (4581082) through it and on the inside assemble M6 x 20mm x 1.2mm thick washer (4581082) and M6 nyloc nut (6151223).

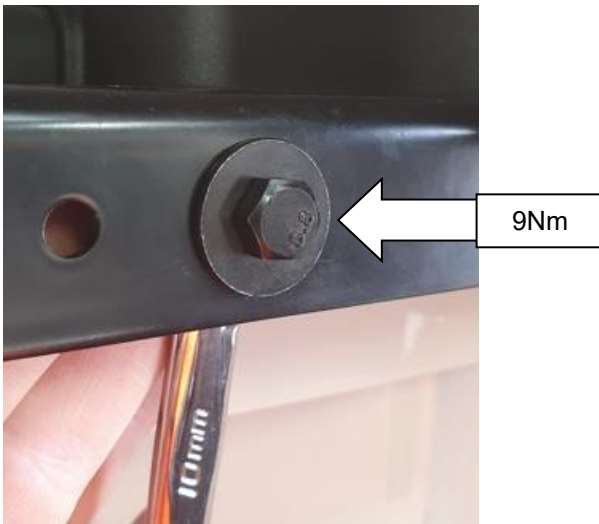
Tighten, but allow the bracket to move forward and aft freely.



5.32) Adhere the rear face of the foam pad to the front face of the rubber door frame corner seal, ensuring the corners of the foam pad butt up to the corners of the door frame seal. Locate the cut slit on the pad either side of the fin on the rubber door seal.



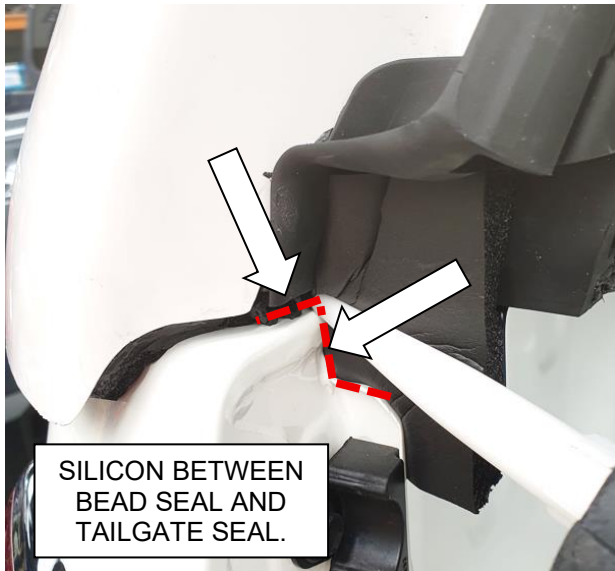
5.33) Pull the bracket rearwards to press up firmly against the inside surface of the tub corner pillar to compress the foam pad to at least half it's thickness.



- 5.34) With the bracket pushed rearwards, tighten the M6 bolts to **9Nm** to set the bracket in place.



- 5.35) Close the tailgate to check the foam compression to the tailgate. Check the tailgate can be closed without excessive force to close it against the seal compression. Check also the foam pad seals up to the back of the plastic tailgate cap.



- 5.36) Open the tailgate and use clear neutral cure clear silicon to close the vertical gap between the foam pad and the tub side wall and into the corner area as shown and beneath the rear corner of the canopy, above the top of the tub to meet where the bed seal on the canopy is compressed against the top of the tub.

Clean up excess and make silicon neat.

- 5.37) **Assemble the opposite side of the canopy with the 667PD065L rear door corner sealing bracket following the same steps above.**



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

- 5.39) **Ensure Section 7 of these instructions including the second last page of this instruction are discussed with the customer and are given to the customer.**

SECTION 6: OPERATIONAL CHECKS AND ADJUSTMENT OF DOORS AND WINDOWS



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.



6.2) Remove the key from the rear door handle and combine this with the key taped inside the canopy. The two keys should then be added to the customer's key ring.

!! IMPORTANT !! Check BOTH keys work manually in the rear door lock.

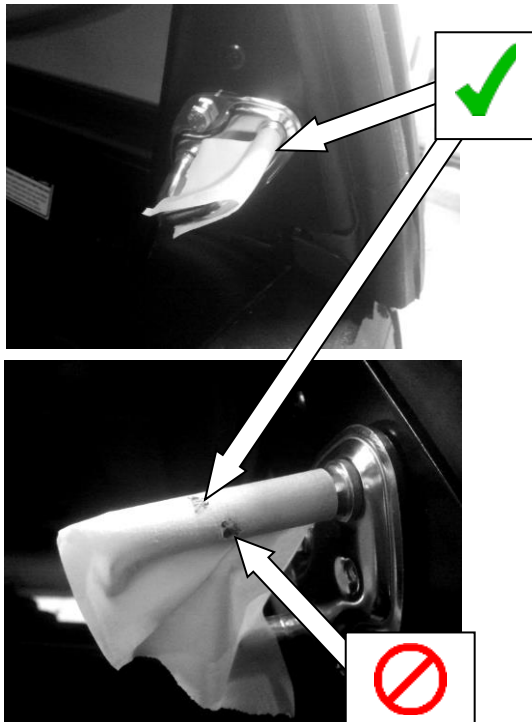
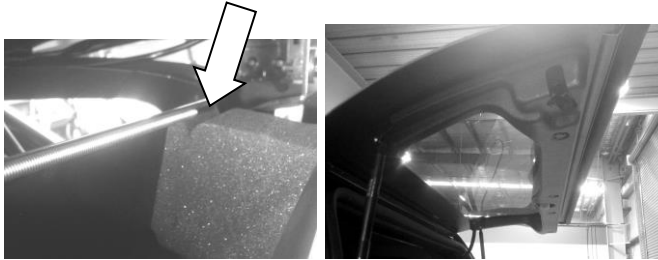
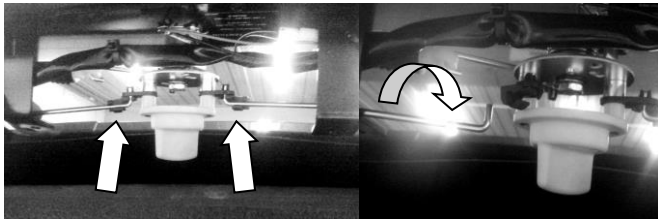


Press the button underneath to operate electric door actuator mechanism.



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:**

- Open the door. Remove the four scriveners retaining the lower section of the door interior cover using a flat blade screwdriver 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.

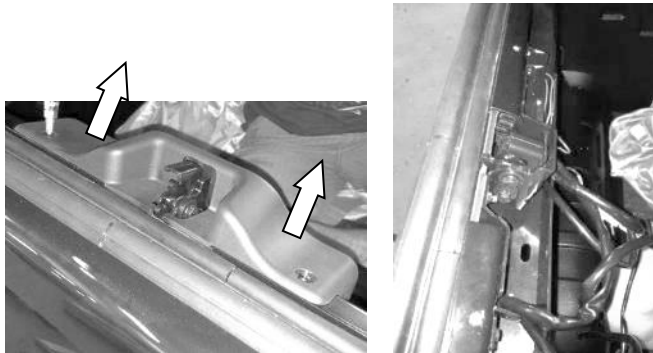


- If the latches do not operate simultaneously, locate the black plastic clips on each end of the pull rods to the latches, unclip a pull rod, lengthen or shorten it by winding it in/out and re-clip in. Close the latches with your fingers again and test operation via the interior rear door handle to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

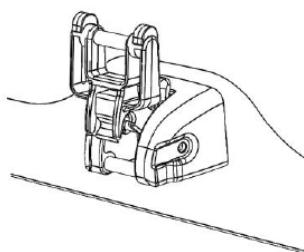
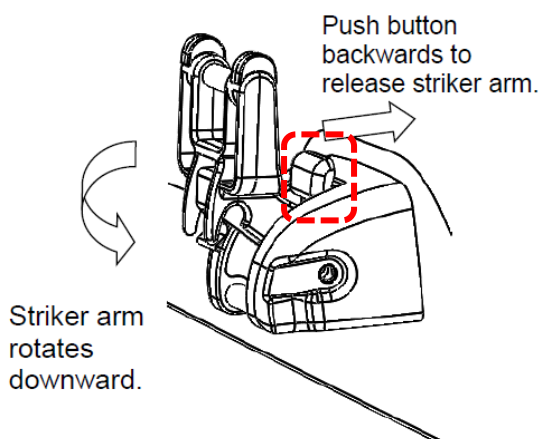
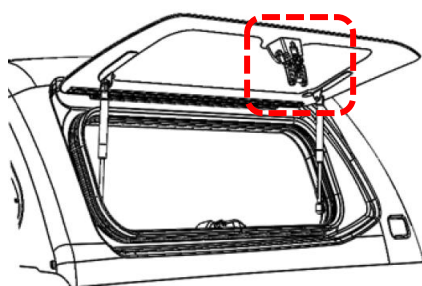


6.4) Operate the push button switch on side lift up windows. If the windows will not latch properly, and the solenoid can be heard working, the latch can be adjusted in the following steps.

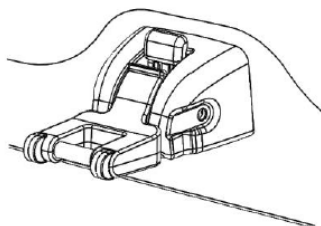
- Remove the rotary latch plastic cover on the window frame.
- Operate the window with a person outside pushing the button and closing the window slowly. Look to see the striker bar on the glass does not scuff the leg on the rotary latch pawl as the window closes. The striker bar should close into the 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 its 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 AC20C Toyota Hilux 2025+

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.

Safety Warnings

- **The canopy will only unlock on the remote key fob when the unlock button is pressed.**
- 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 60°C. 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.

Water Intrusion

- During rain the vehicle will leak through the unsealed sides of the tailgate.
- Under the presence of high pressure washing or automated laser car washes, water may leak into the vehicle's tub over the top of the canopy's rear corner tailgate sealing brackets and between the lower rear seal on the door and the tailgate cap.
- High pressure washing at the top of the sliding glass panel of side sliding windows under the fixed glass pane will cause water to enter inside. Some water may also enter through the lower drain holes in side sliding windows frames.
- The canopy is designed to be weatherproof in wet weather conditions.



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 AC20C Toyota Hilux 2025+			
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 3 of these instructions.			
Check the gap between the front of the canopy and the cabin is 30mm or more at it's tightest point.			
Check Door lower sash seal contacts the tailgate cap evenly and there is not less than a 7 mm gap between the lower edge of the glass and the top of the tailgate cap all the way along it. The gap should look even all the way along the edge of the glass.			
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)			
Key fob once pressed TWICE unlocks the canopy the first time, once all other times.			
Rear door push button switch functions to open the door both sides simultaneously and closes and latches both sides.			
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 open 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.			
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:			