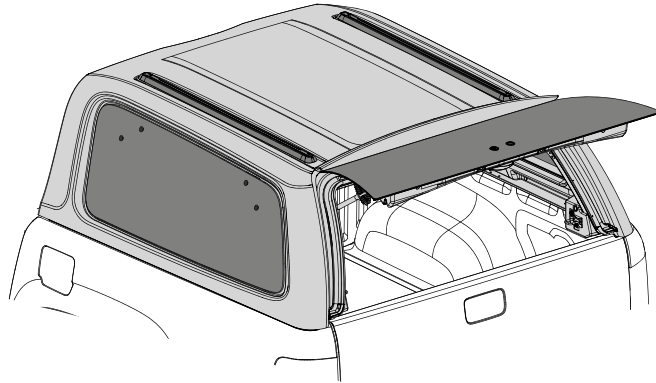



Gen III Premium Canopy
FORD RANGER MY20
 Installation Instructions



Installation Time: Approx. 90 mins

Important



- Do not tighten any bolts, screws and nuts that are used in window frames, locks and glass assemblies. This may cause water leaks along window frames and glass windows to shatter.
- Read instructions carefully before installation.
- It is strongly recommended that installation is conducted by an authorized dealer.
- This product must be installed exactly as specified in these instructions. Failure to do so may result in improper fit and/or retention/failure of components.

PERSONAL PROTECTIVE EQUIPMENT:



Mask


Rubber Gloves



Goggles


Hearing Protection

Care Instructions:



Clean canopy with a mild detergent and water solution.



Do not use abrasive cleaners or solvents.

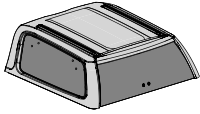
Tools Required:

 Drill	 Drill Bit Ø3mm Ø5.5mm Ø9mm	 Socket torque wrench	 Socket 13mm	 Wrench No: 10,12 & 13mm	 Marking Tape	 Clean cloth
 Scissors	 Marking pen	 Flash light	 Silicone & Gun	 Phillips Screwdriver	 Rivet gun	 Head Bit
 Non permanent marker	 Tape Measure	 Isopropyl Alcohol or Equivalent				

PREMIUM CANOPY

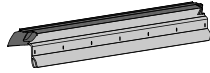
Parts in Canopy Kit:

1



Canopy
Qty - 1

2



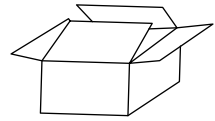
Tailgate Rail
(CNPY0080)
Qty - 1

3



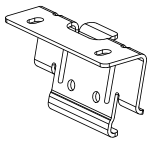
Keys
Qty - 1

4



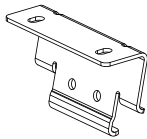
Fitting Kit
(KIT038025)
Qty - 1

5



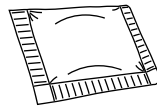
Front Rail Clamp (outer)
(CLIP3912PC)
Qty - 2

6



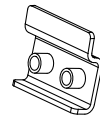
Mid Rail Clamp (outer)
(CLIP3911PC)
Qty - 4

7



Rust Inhibitor
(MISC2776)
Qty - 1

8



Rail Clamp (inner)
(CLIP3533PC)
Qty - 6

9



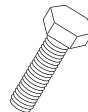
Top Plate
(CLIP3767PCTX-1)
Qty - 8

10



Stop Bracket
(CLIP3751PCTX-1)
Qty - 2

11



M8x30 Bolt
(SCRW0846)
Qty - 28

12



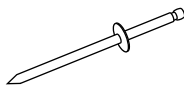
M8 Washer
(WASH0171-1)
Qty - 44

13



M8 Clutch Nut
(NUTS0250-1)
Qty - 16

14



Rivet
(FAST0609)
Qty - 7

15



Cable Tie
(CONS1590)
Qty - 20

16



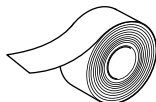
Anti Abrasion Corners
(TAPE0767)
Qty - 1

17



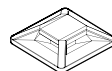
Anti Abrasion Tape
140mm x 60mm
(TAPE0649)
Qty - 6

18



Anti Abrasion Tape
(TAPE0772)
Qty - 1

19

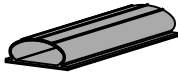


Cable Base
(FAST0647)
Qty - 5

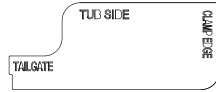
20



Cable Tie
(FAST0254)
Qty - 35

Parts in Service Kit:**21**

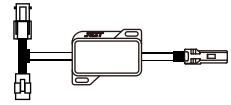
Bulb Seal
(MISC2115)
Qty - 1

22

Clamp Template
(MISC5336)
Qty - 1

23

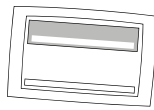
Vehicle Harness
(LOOM0270)
Qty - 1

24

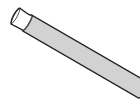
Canopy T-Patch
(LOOM0235)
Qty - 1

25

Blanking Plate
(S06623)
Qty - 1

26

Alcohol Wipe
(MISC0052)
Qty - 8

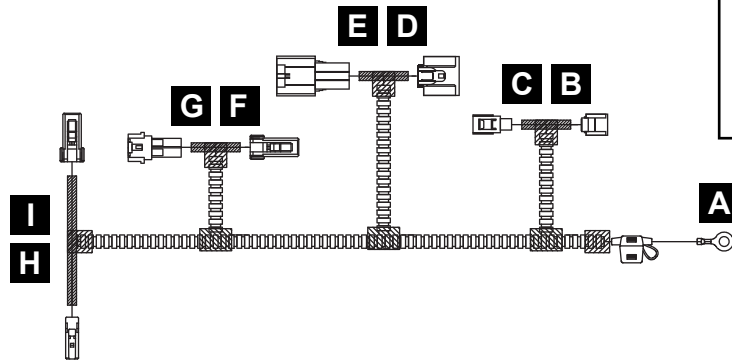
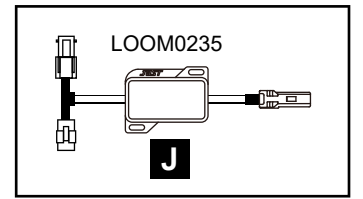
27

Primer
(MISC1365)
Qty - 3

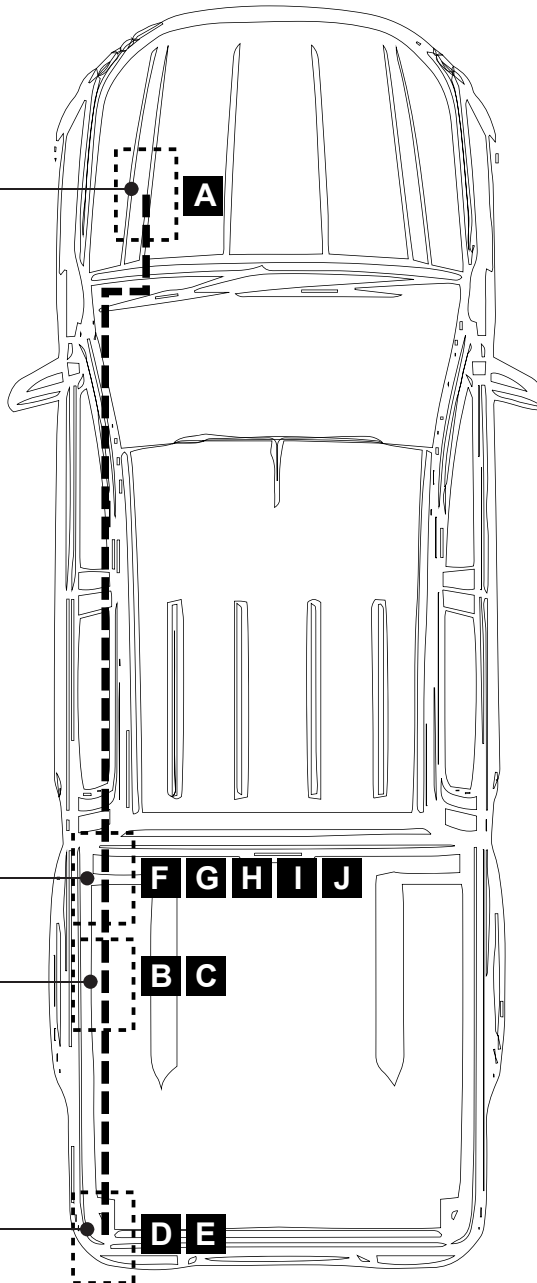
PREMIUM CANOPY

23

VEHICLE HARNESS LOOM0270



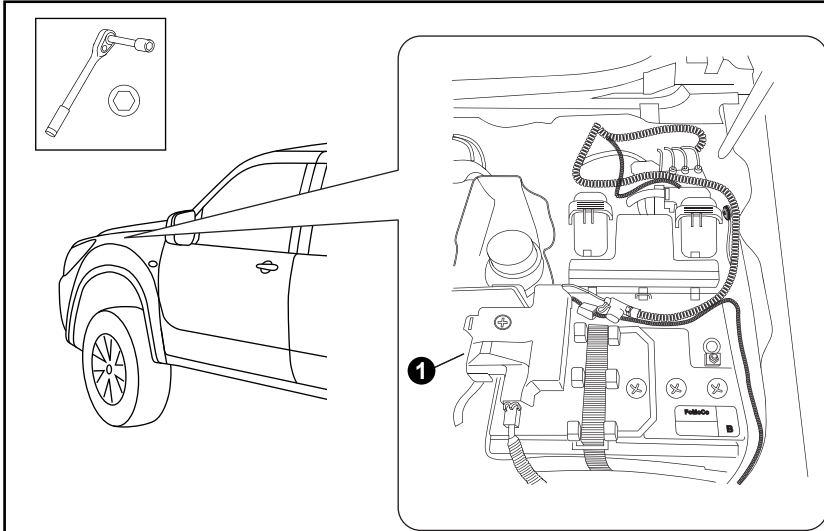
STEP 9



STEP 6-7 & 31

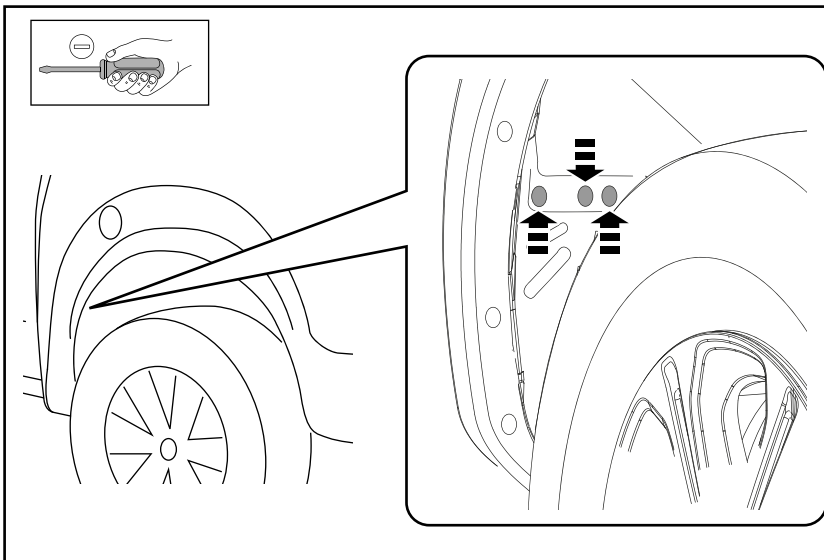
STEP 5

STEP 3-4

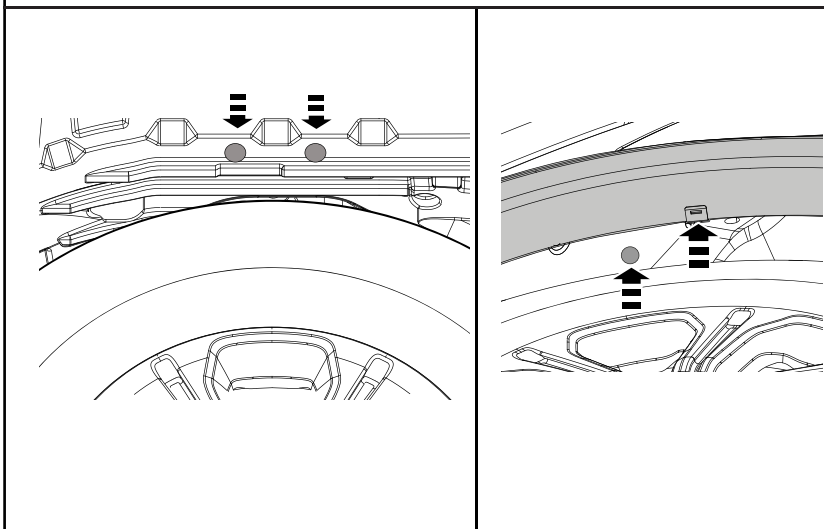
PREMIUM CANOPY**Diagram: 1 - DISCONNECT BATTERY**

1. Note down the clock and radio settings. In the engine bay, disconnect and isolate the negative battery terminal.

Disconnect battery positive terminal.



2. Remove and retain the 3x wheel arch liner screws at the top of the LH rear wheel well. If the vehicle is fitted with fender flares, remove and retain the forward 3x FF screws and 1x FF clip at the top from the LH rear wheel FF. Pull back the wheel arch liner to get access to the fuel flap harness connectors.

**Diagram: 2 - PARTIALY REMOVE WHEEL ARCH LINER**

PREMIUM CANOPY

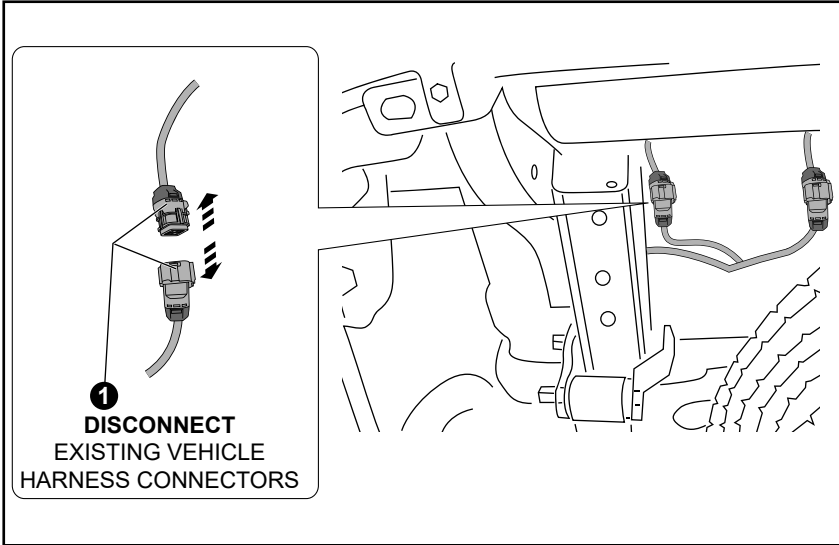


Diagram: 3 - DISCONNECT REAR CONNECTOR UNDER LHS

3. Disconnect existing vehicle harness connectors under the rear left hand of the car near the chassis rail and spare tyre.

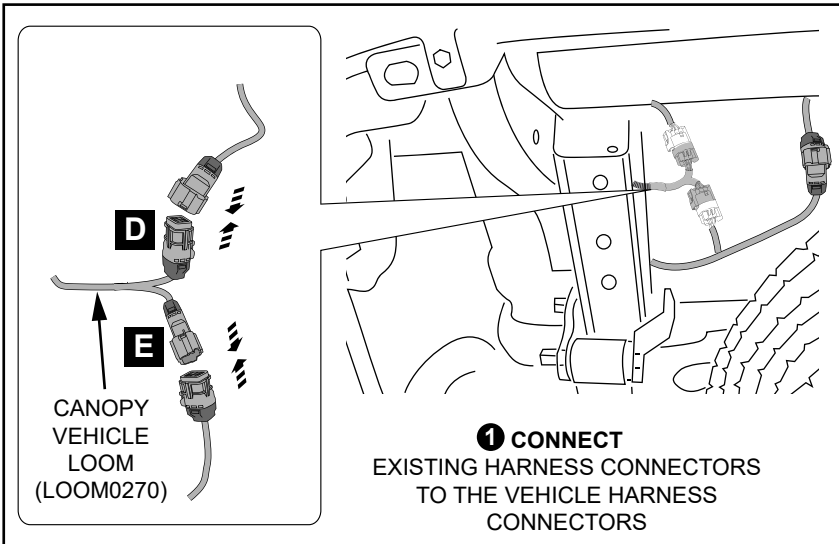


Diagram: 4 - CONNECT LOOM INTO EXISTING CONNECTOR

4. Connect the wiring loom (LOOM0270) into the vehicle harness as shown.

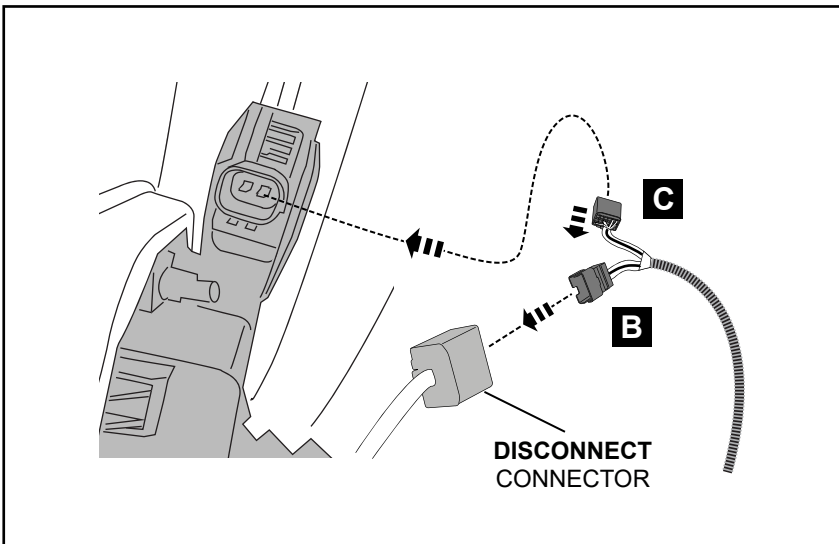


Diagram: 5 - PATCH VEHICLE HARNESS TO FUEL CAP

5. Disconnect fuel flap connectors. Patch the shorter, Vehicle Harness (23) (branch B-C) between the two fuel connectors.

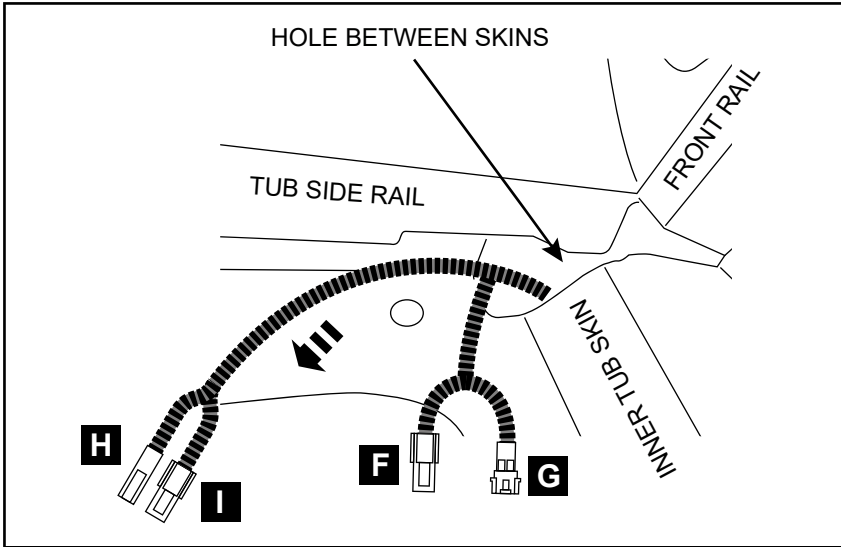


Diagram: 6 - FEED HARNESS INTO TUB

- From the chassis rail in front of the LHS rear wheel, feed the Vehicle Harness (23) (branch F-G and H-I) up between cabin and tub into the opening in the tub front left hand corner until approx 300mm protrudes.

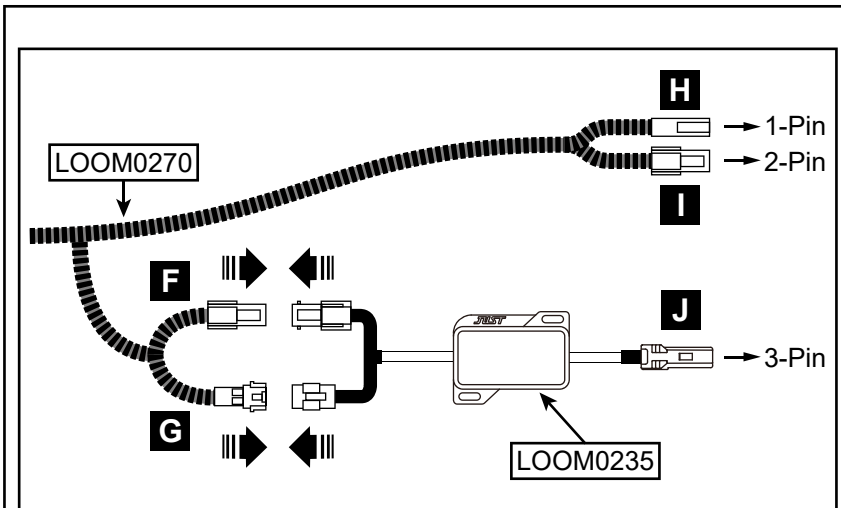


Diagram: 7 - CONNECT ECU

- Connect the indicated female connectors of the Vehicle Harness (23) (branch F-G) to the male connectors of the Canopy T-Patch LOOM0235 (24).

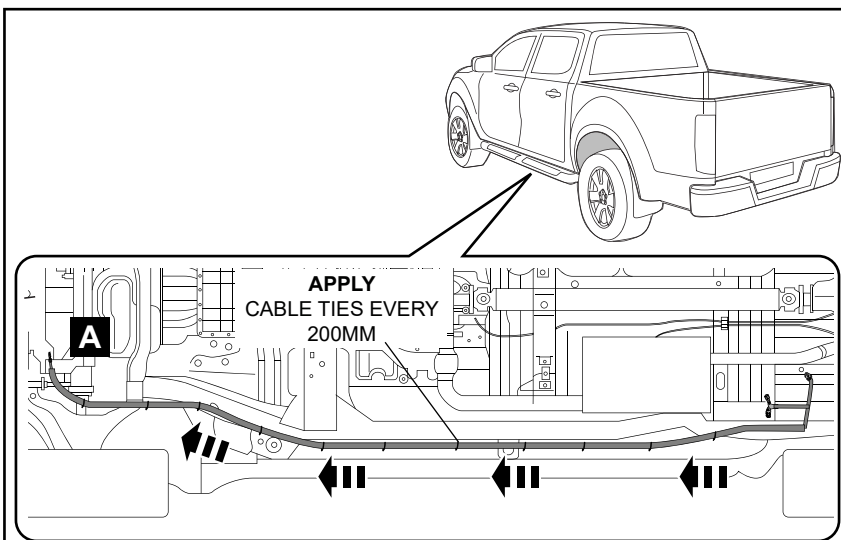
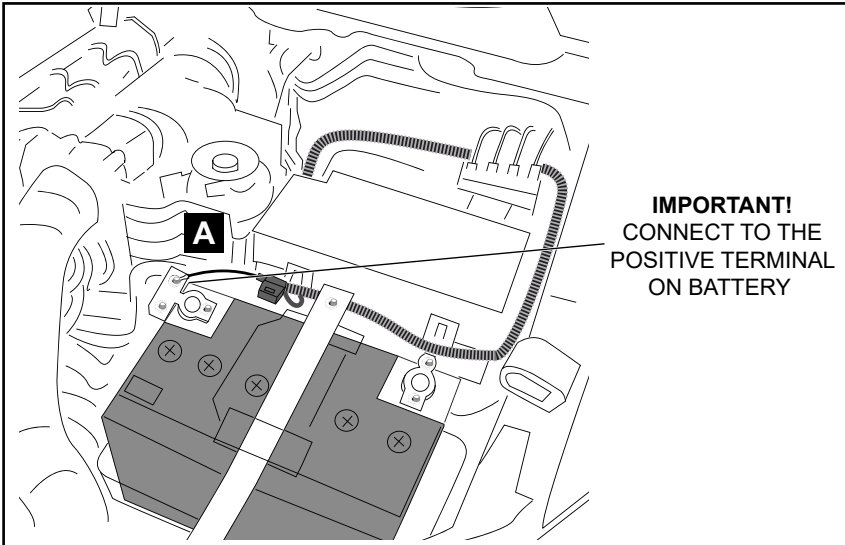
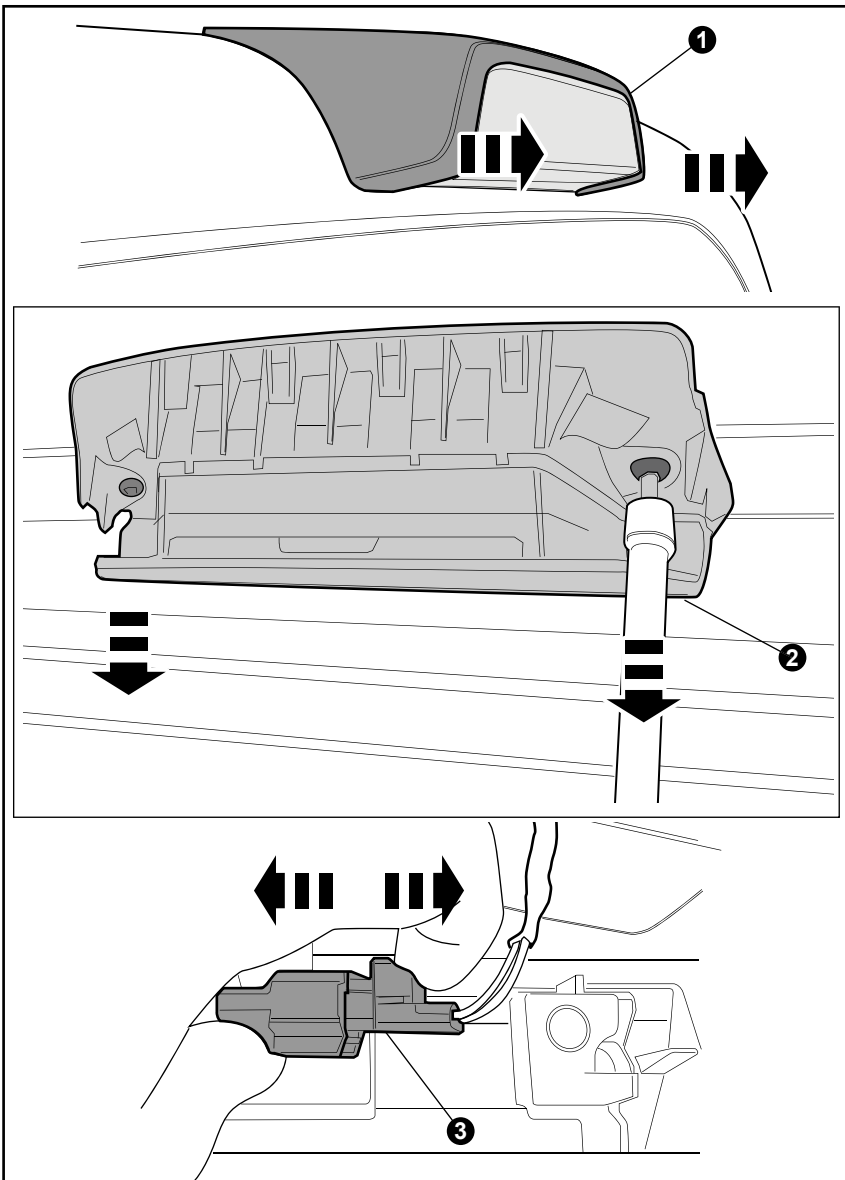


Diagram: 8 - SECURE HARNESS TO CHASSIS RAIL

- Run the rest of the Vehicle Harness (23) forward along the chassis rail and loosely secure using supplied cable ties every 200mm (Avoid any pinch points such as rubber shock absorbers).

**Diagram: 9 - CONNECT THE BATTERY**

9. Feed the Vehicle Harness (23) (branch A) along the chassis rail up the fire wall into the vehicle engine bay. Feed along the side fender and between the fuse box and the battery. Connect the Vehicle Harness into the positive terminal of the battery, as shown.

**Diagram: 10 - REMOVE STOP LAMP**

10. Remove the stop lamp plastic cover by unclipping and pulling directly towards the rear of the vehicle.

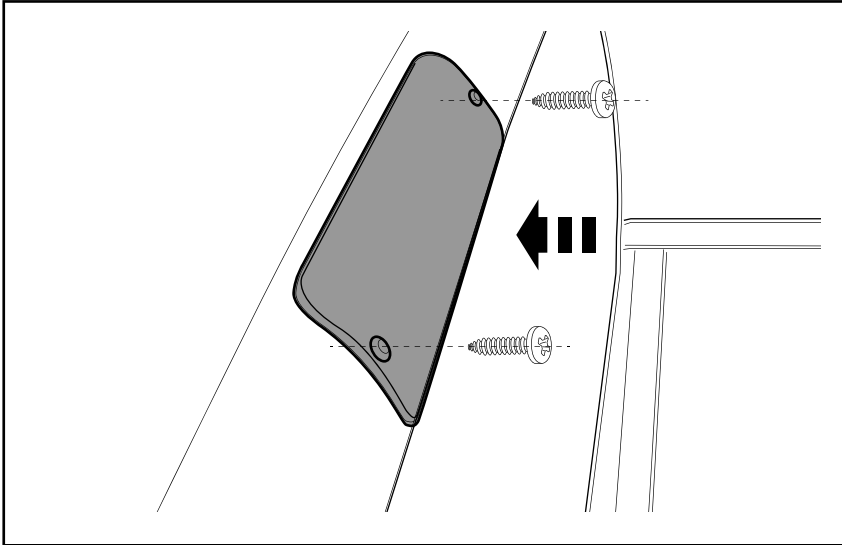
Clean and dry the surface.

Unscrew two screws in the stop lamp.

Disconnect the electrical connector as shown.

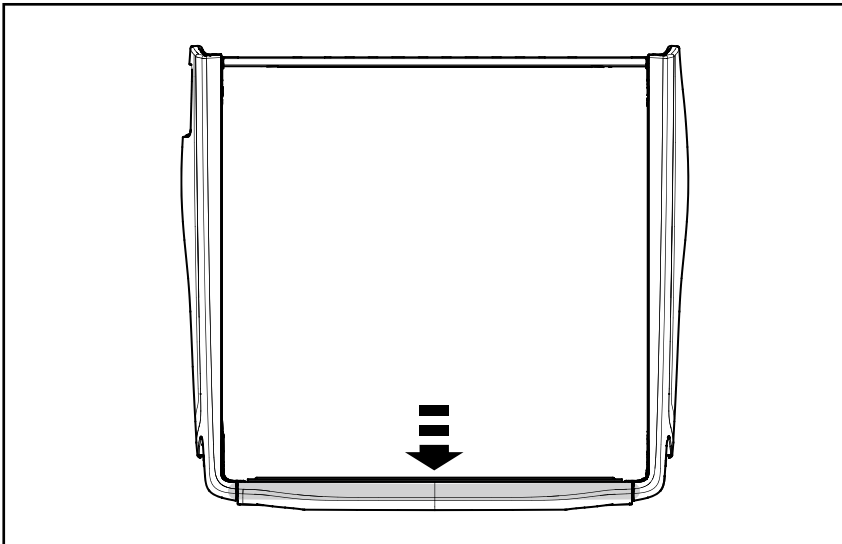
Secure the loose connector to the vehicle using tape.

Retain and store the cover and stop lamp.



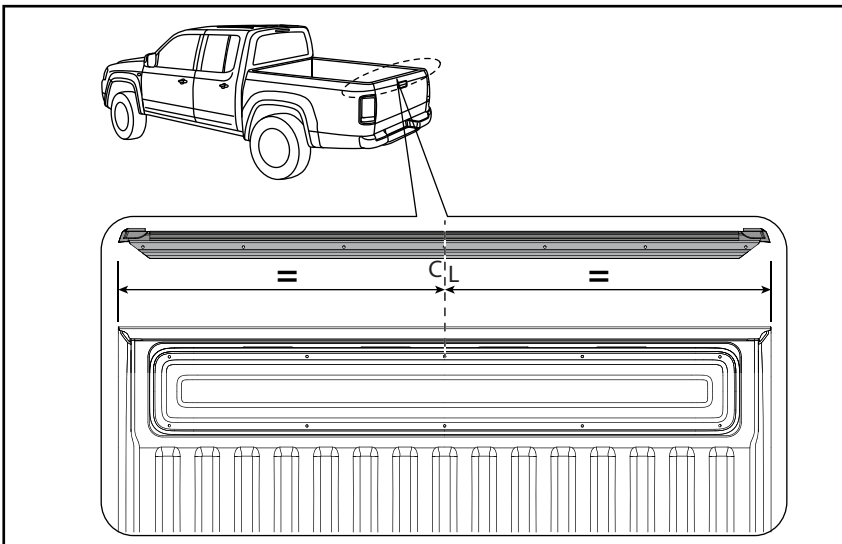
- 11.** Screw the Blanking Plate (25) by reusing the removed vehicle stop lamp screws.

Diagram: 11 - INSTALL BLANKING PLATE



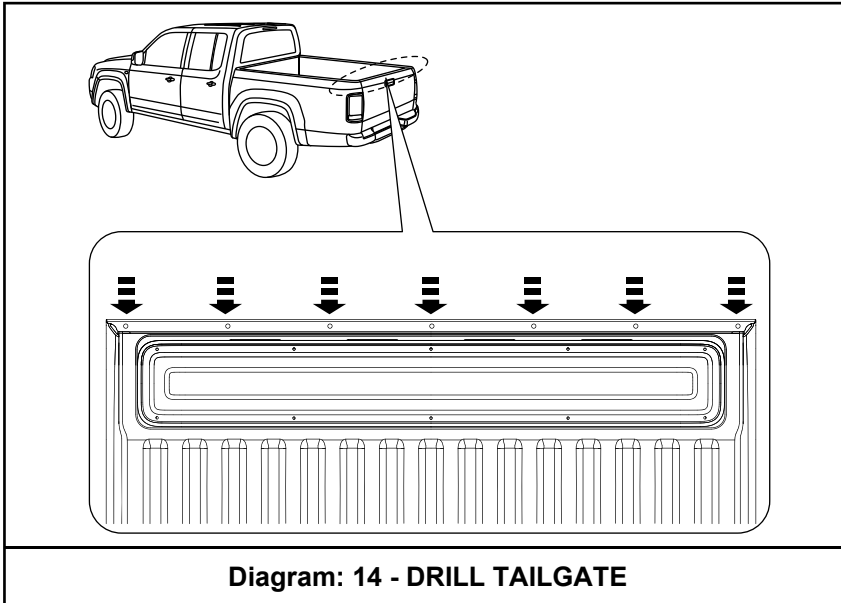
- 12.** Using an Alcohol Wipe (26) clean the top surface of the tailgate and wipe away residue with a clean dry cloth. If heavy cleaning is required use IPA spray and wipe away residue with a clean dry cloth.

Diagram: 12 - PREPARE TUB

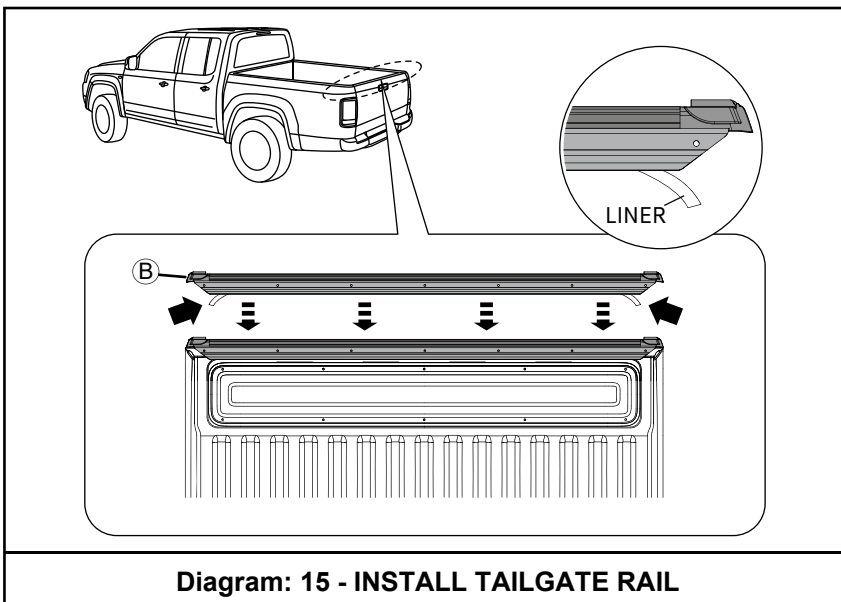


- 13.** Using a non permanent marker, measure and mark a line across the centre of the Tailgate Rail (2) and the centre of the tailgate (as shown). Place the Tailgate Rail (2) on the tailgate and check that the Tailgate Rail is an equal distance from each end of the tailgate. Placing the Tailgate Rail on the tailgate, mark the holes on the front of the tailgate using a non permanent marker. Remove the Tailgate Rail.

Diagram: 13 - MARK TAILGATE



14. Using the holes marked in the previous step, drill out the seven Ø5mm holes into the tailgate. Apply Rust Inhibitor (7) to all drilled holes in the tub sheet metal.

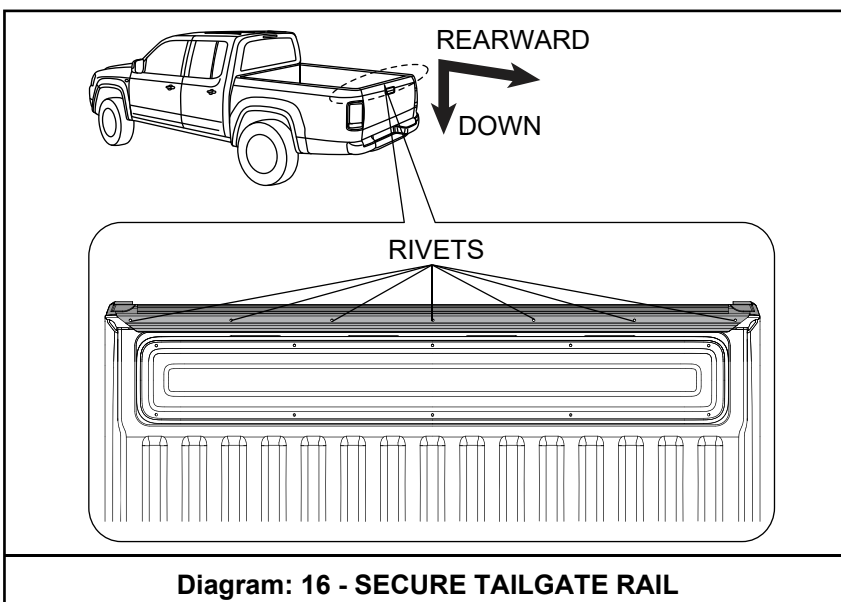


15. Remove 50mm of liner from each end of the double sided tape applied to the Tailgate Rail (2).

! Important: Ensure the liner is pinned outside of the perimeter of the tailgate rail when the tailgate rail is applied.

Fit the tailgate rail to the tailgate, aligning with the previously marked centre lines.

Loosely insert the rivets through the holes in the tailgate rail and into the tailgate, then remove liner from the double sided tape by pulling on the liner hanging from the ends of the rail.



16. Secure the Tailgate Rail (2) with seven Rivets (14).

Apply firm pressure rearwards and down on the Tailgate Rail to ensure maximum adhesion of the tape. Refit the tailgate liner (if required).

PREMIUM CANOPY

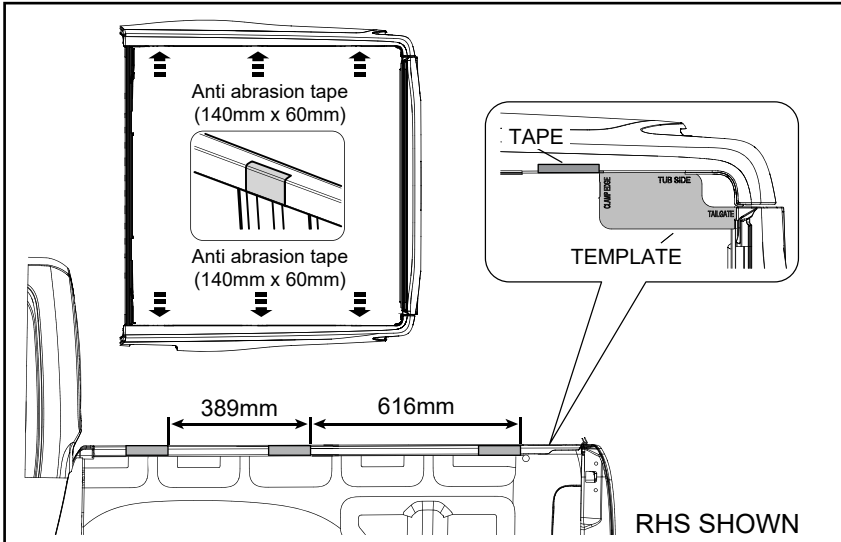


Diagram: 17 - APPLY TAPE

17. Using the Clamp Template (22) at the rear of the tub, position the first Anti Abrasion Tape (17) on the inside side rails as shown. Place 2 Anti Abrasion Tapes (17) measured from the first, positioned on the inside side rails.
Repeat for LHS.

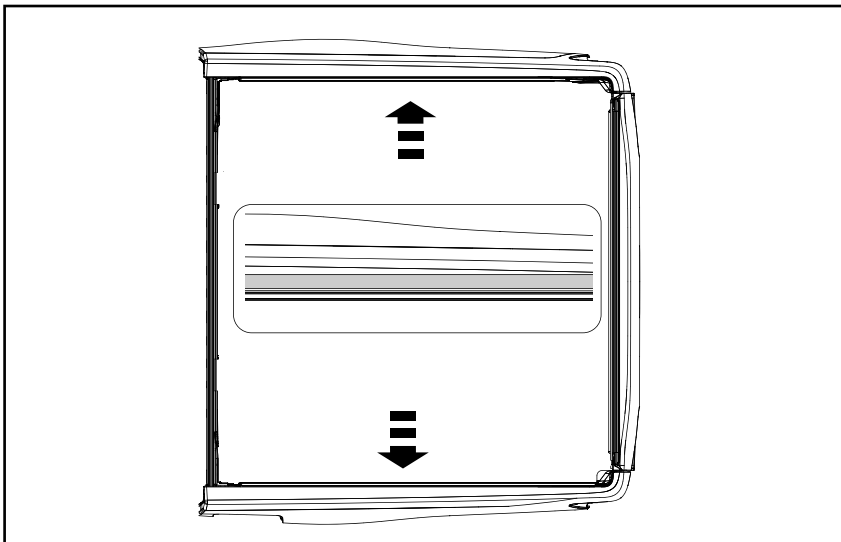


Diagram: 18 - CLEAN SIDE RAILS

18. Using an Alcohol Wipe (26) clean the top surface of the side rails and wipe away residue with a clean dry cloth. If heavy cleaning is required use IPA spray and wipe away residue with a clean dry cloth.

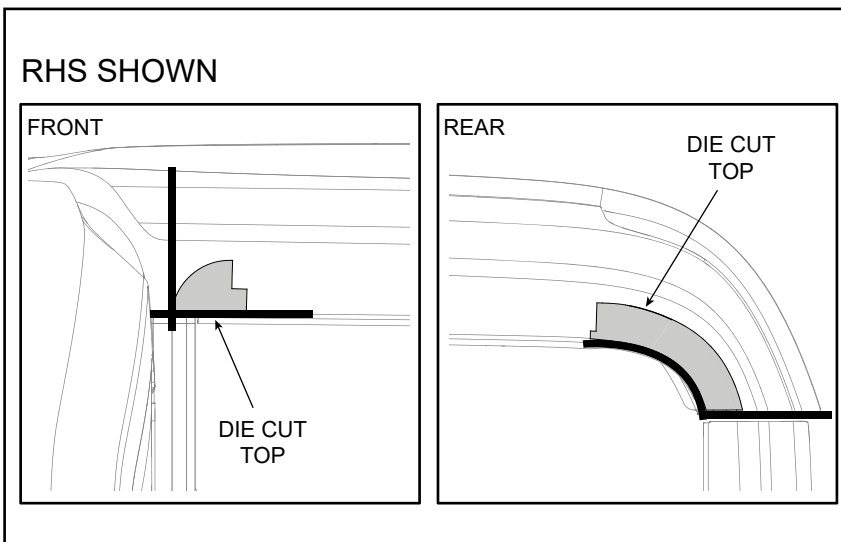


Diagram: 19 - APPLY TAPE TO CORNERS

19. Apply clear die cut Anti Abrasive Corners (16) to the tub corners as shown.

- ⚠ Important: 30% Water 70% IPA can be used between the tape and the tub to help position tape.
- ⚠ Important: Align neatly to the edges of the radii as shown.

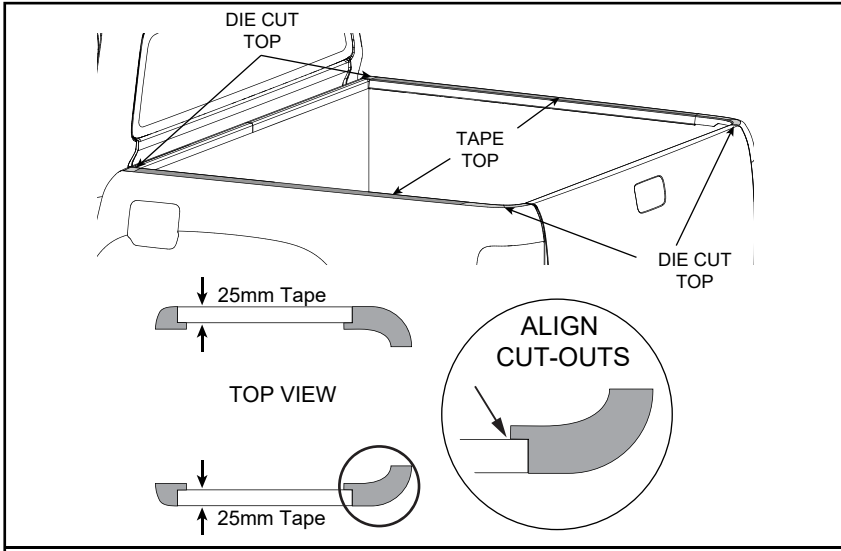


Diagram: 20 - APPLY TAPE TO SIDE RAILS

20. Apply clear die cut Anti Abrasive Tape (18) to the tub corners as shown.

! Important: Align 25mm tape carefully with cut-out alignment features in die cut corners as shown.

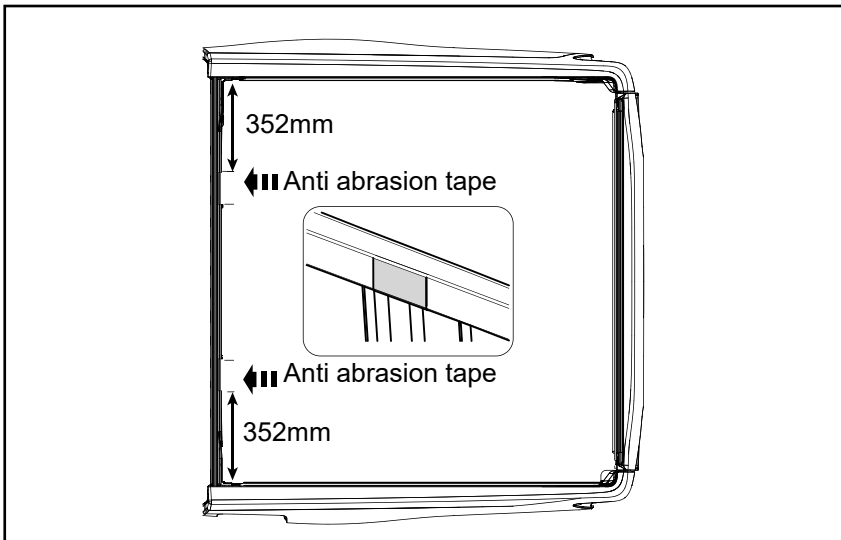


Diagram: 21 - APPLY TAPE TO FRONT RAIL

21. Use excess Anti Abrasion Tape (18) from above. Cut two pieces 140mm long and stick to the front of the tub where the stop bracket will contact the tub. Measure 352mm from the inside tub rail.

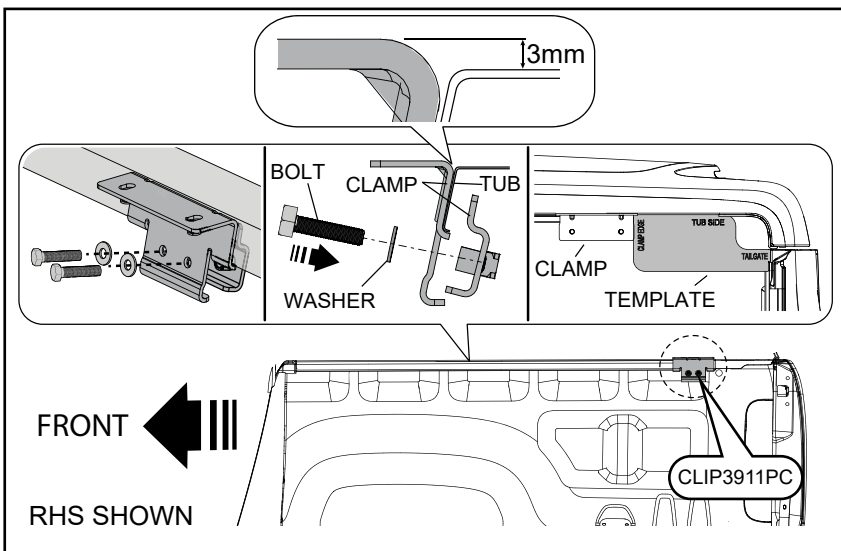


Diagram: 22 - FIT RAIL CLAMPS

22. Loosely secure the first Rear Rail Clamp (6) to the side rail near the rear of the tub on the RHS using two M8x30 Bolts (11), M8 Washers (12) and the inner and outer Rail Clamp (8, 6) pieces as shown. Using the provided Clamp Template (22), align by the tailgate and the side rail, sliding the clamp to butt against it. Position the top of the clamp 3mm above the Tub. Tighten the clamp to Torque 20Nm so it won't move.

PREMIUM CANOPY

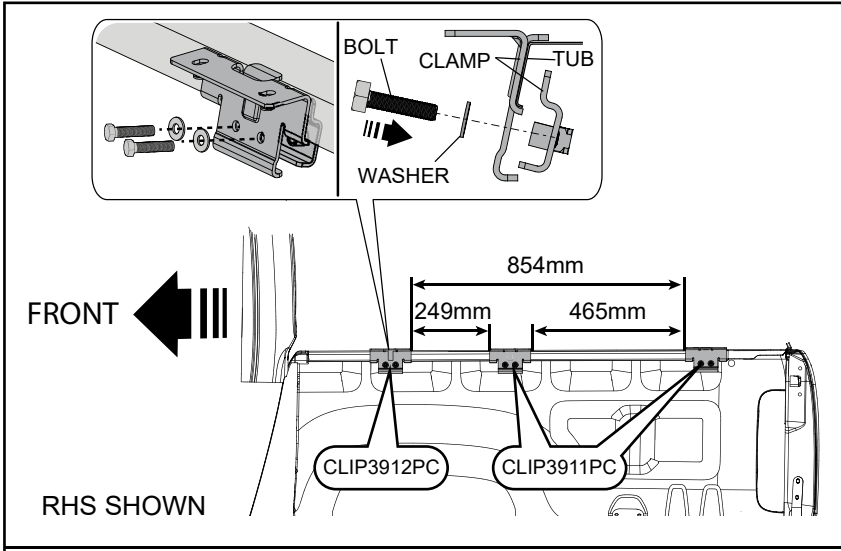


Diagram: 23 - FIT RAIL CLAMPS CONT.

23. From the front facing edge of the clamp, measure 465mm and loosely secure the second Clamp (6) then 854mm and tightly secure the third (5) clamp as shown. Repeat for LHS. Do not tighten middle clamp yet. This is to be completed on step 28.

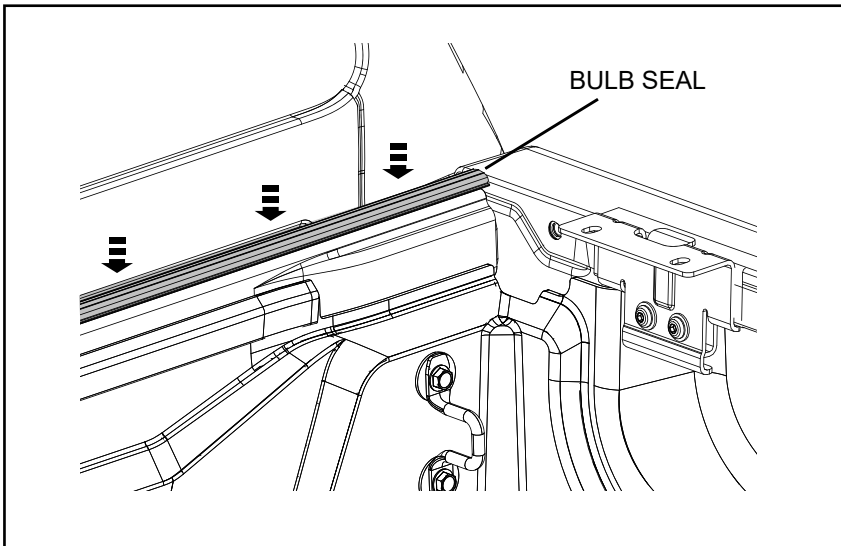


Diagram: 24 - APPLY BULB SEAL

24. Clean the top of the front tub rail with Alcohol Wipe (26) and apply Primer (27). Allow to dry. Fit the Bulb Seal (21) along the top edge and trim if necessary. Press firmly to adhere the double sided tape.

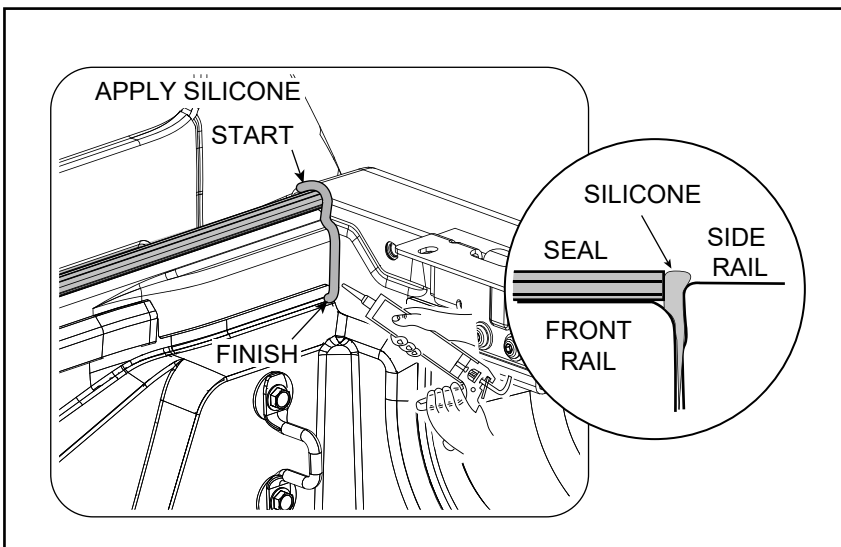


Diagram: 25 - APPLY SILICONE

25. Apply a bead of silicone in the corner gap between the front and side rail as shown.

! Important: Apply at an angle to ensure that the silicone enters the space between the top of the front rail and side rail for the optimal seal.

PREMIUM CANOPY

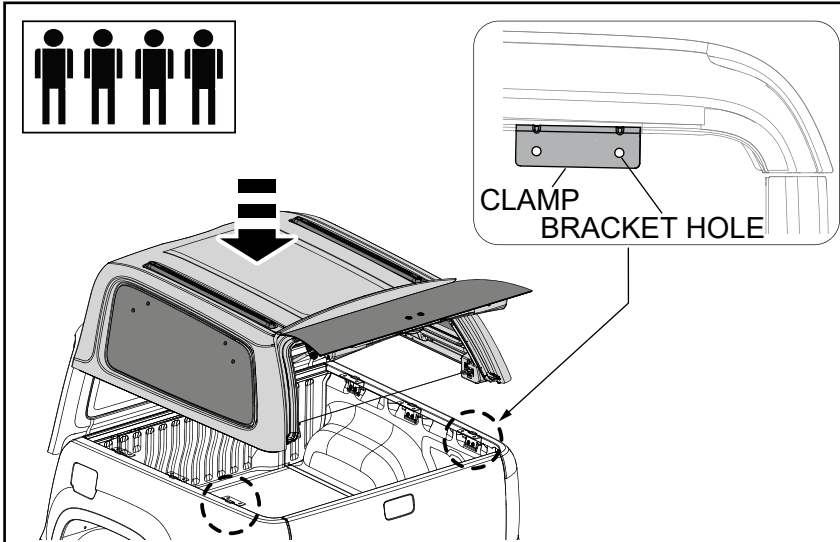


Diagram: 26 - PLACE CANOPY

26. With the rear canopy window open, gently lower the Canopy (1) onto the tub, ensuring it is seated evenly on the tub sides, and slightly back. Align the rear datum hole in the canopy base rail with the hole in the Rear Clamp (6) as shown. Position the canopy to be central sideways by checking the side alignment and front holes of the side rail placed over the side clamp brackets.

- ! Important: The installation should be performed by four people for safety and efficiency.
- ! Important: Remove the keys secured from the rear door of the canopy before proceeding.

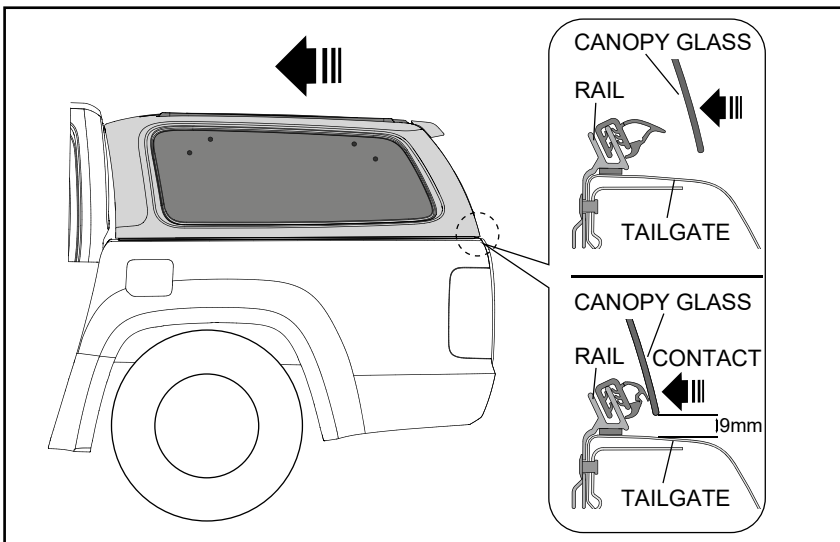


Diagram: 27 - CANOPY POSITION CHECK

27. With one person inside the Canopy (1), slowly close the rear canopy window, and note how it closes.

- ! Important: There should be a minimum 9mm gap between the bottom of the glass and the top of the tailgate measured from the centre of the window.

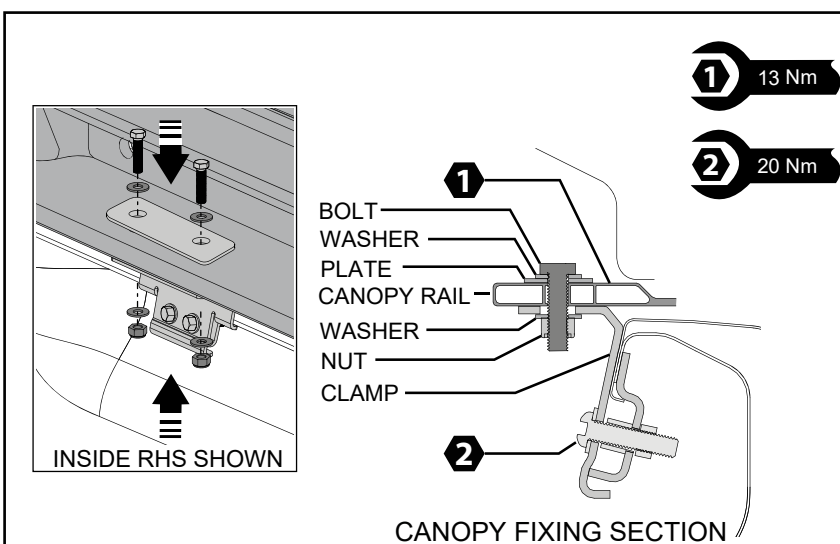


Diagram: 28 - SECURE CANOPY

28. Secure the Canopy (1) to the Clamps (5, 6) using the M8x30 Bolts (11), M8 Washers (12), Top Plates (9), and M8 Clutch Nuts (13) provided. Then tightly secure the mid clamps (4) to the tub.

- For Bolts through the Canopy Rail, torque to 13Nm.
- For Bolts through the Clamps, torque to 20Nm.

PREMIUM CANOPY

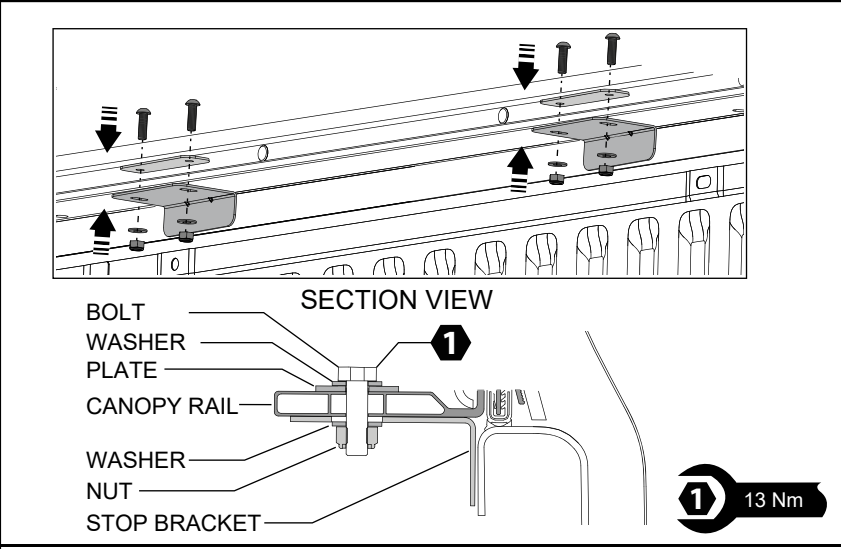


Diagram: 29 - FIT STOP BRACKETS

29. Locate the holes in the front rail of the Canopy (1) and attach the Stop Brackets (10) using the M8x30mm Bolts (11), M8 Washers (12), Top Plates (9) and M8 Clutch Nuts (13) provided. Torque to 13Nm.

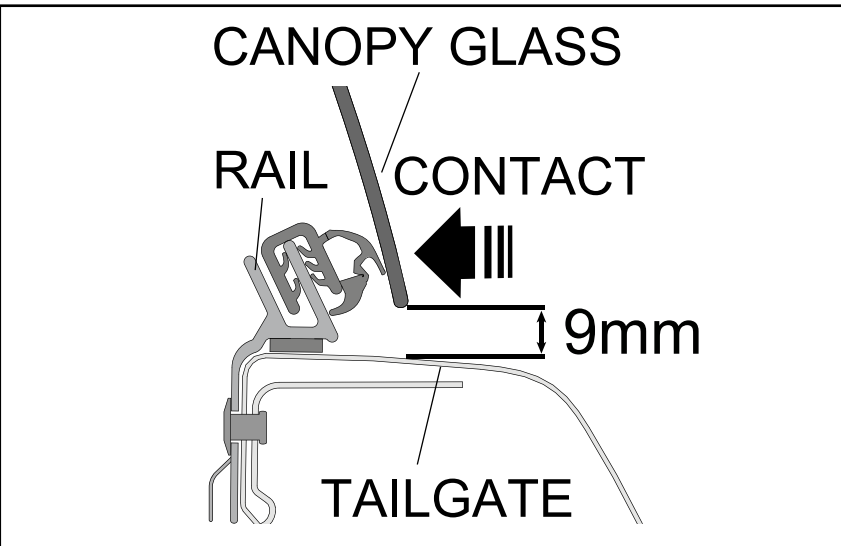


Diagram: 30 - CANOPY GLASS POSITION CHECK

30. If the canopy does not create a complete seal with the tub, adjust the rear and mid clamps up/down accordingly.

! Important: After adjustments, again, ensure that there is a minimum 9mm gap between the bottom of the glass and the top of tailgate, measured from the centre of the window, while still fully compressing the rubber extrusion of the Tailgate Rail (2).

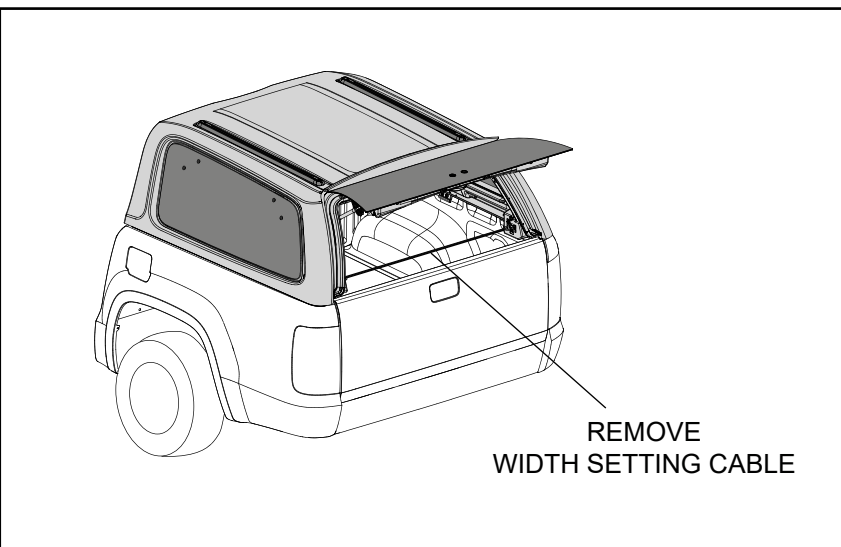


Diagram: 31 - REMOVE WIDTH SETTING CABLE

31. Remove width setting cable from rear of the Canopy (1).

PREMIUM CANOPY

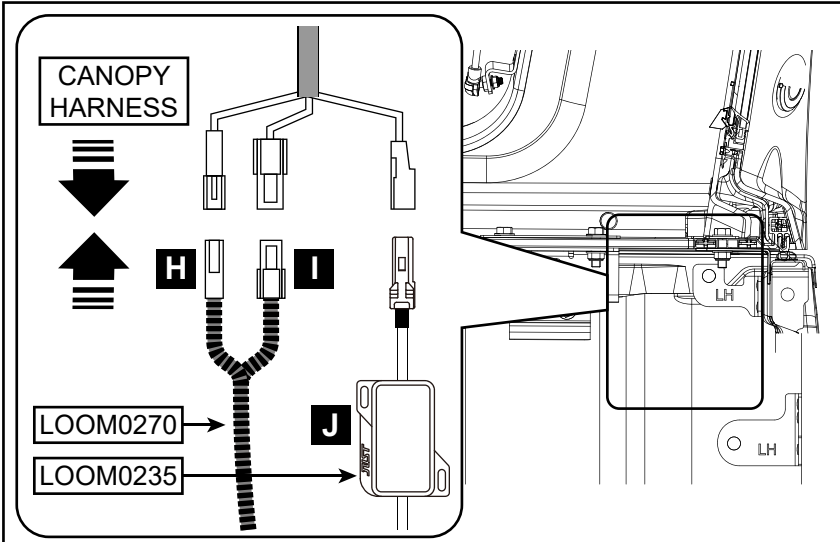


Diagram: 32 - CONNECT CANOPY HARNESS

- 32.** Connect the 1 Pin to 1 Pin and 2 Pin to 2 Pin from the Vehicle Harness LOOM0270 (23) to the Canopy harness, and 3 Pin to 3 Pin connectors from the Canopy T-Patch Harness LOOM0235 (24) to the Canopy harness.

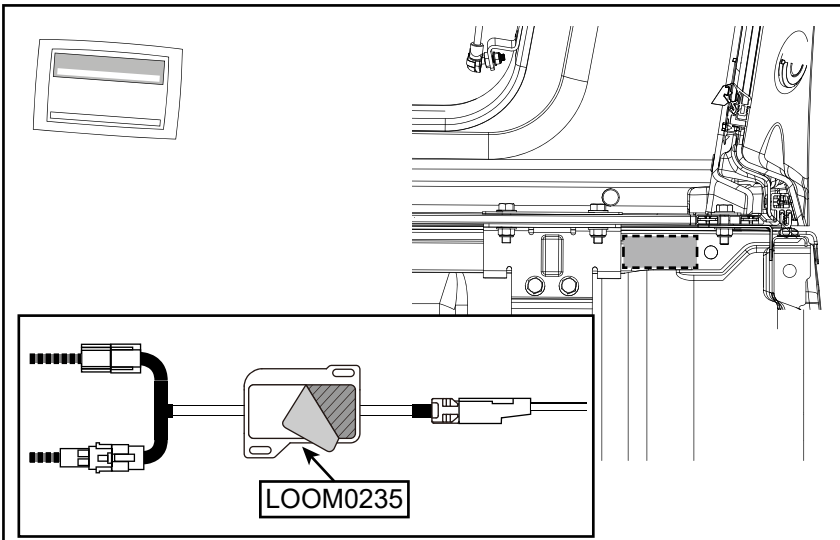


Diagram: 33 - SECURE CANOPY T-PATCH

- 33.** Clean the indicated location under the tub flange with an Alcohol Wipe (26). Remove the liner backing and stick the Canopy T-Patch LOOM0235 (24) under the tub flange as shown.

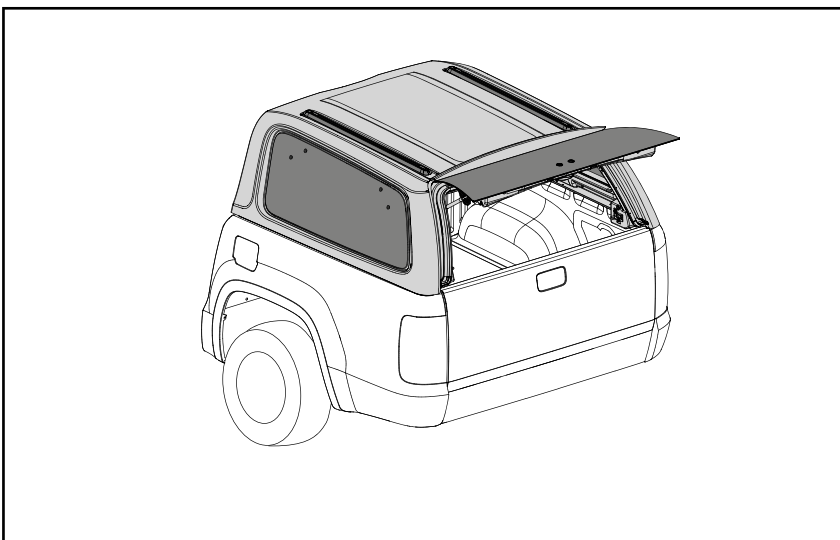


Diagram: 34 - CHECK FUNCTIONS

- 34.** Reconnect the negative battery terminal. Check the function of the Canopy Central Locking.

Note: Refer to the vehicle workshop manual for tightening battery terminal.

STRIKER ADJUSTMENT GUIDE

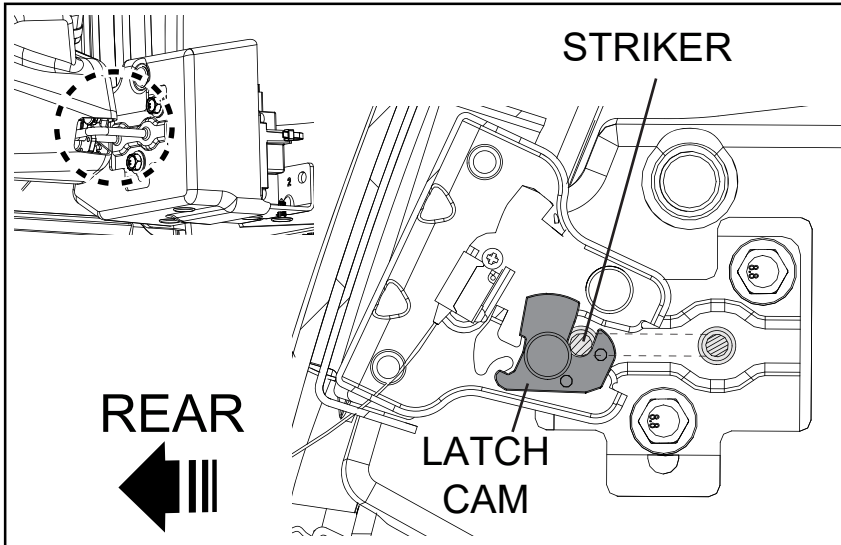


Diagram: 1 - CHECK LATCHING

1. Check that the Striker on both sides of the canopy closes correctly. The Latch Cam is a single stage locking mechanism.

Listen for a single distinct click from each side of the canopy window when locking or unlocking the window.

If the Latch Cam does not produce a click on either side of the window, the Striker is not engaging the Latch Cam correctly.

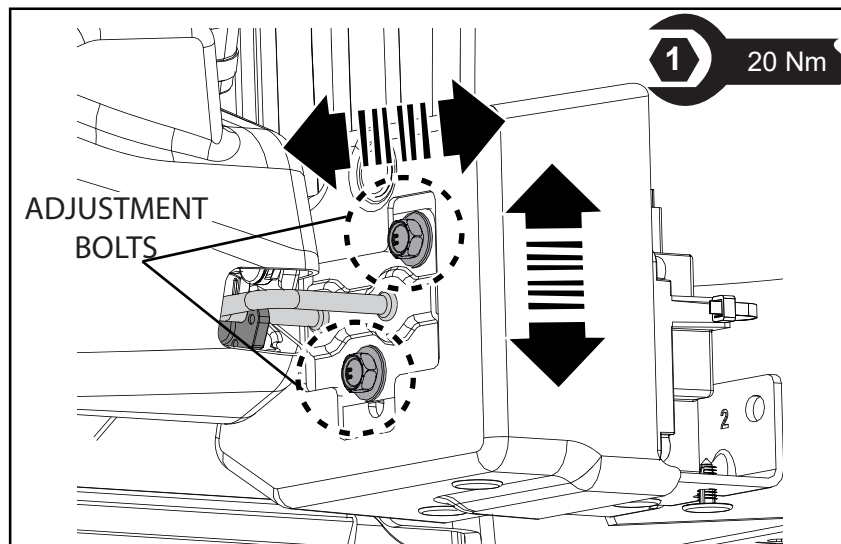


Diagram: 2 - ADJUST STRIKER

2. If the striker is not engaging the latch, the depth or height of the Striker will need to be adjusted.

To adjust, slightly loosen the adjustment bolts, and move the striker incrementally horizontally or vertically.

Appropriately tighten the bolts and test the mechanism after each incremental change. The Striker should be centrally aligned with the Latch Cam. The Latch Cam should not catch or scrape the Striker on engagement or release. If catchment is occurring, readjust the Striker.

Once desired result is achieved, torque the striker adjustment bolts to 20Nm.

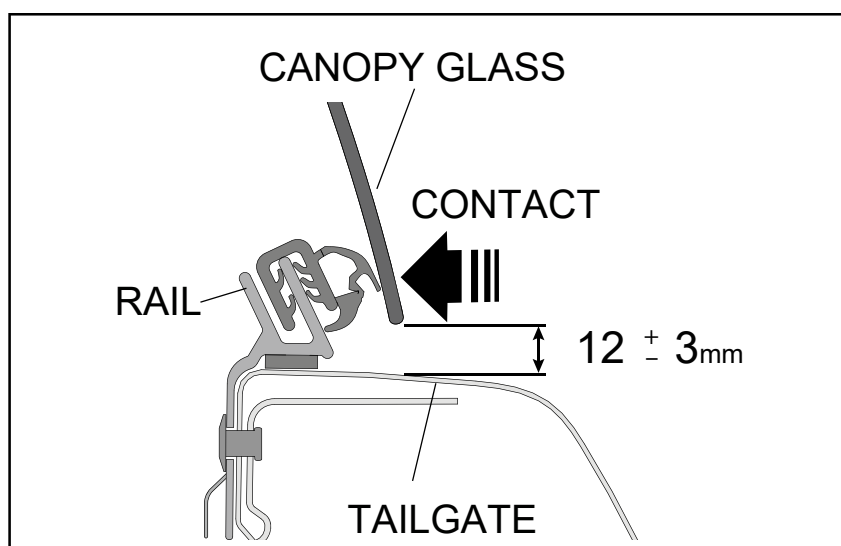


Diagram: 3 - CHECK GLASS CLEARANCE FROM TAILGATE

3. Carefully close the window, ensuring the glass does not contact the tailgate. Ensure there is a minimum 9mm gap (15mm max) between the glass and the top of the tub.

For an appropriate seal and correct latching to occur, the clearance gap must be within the values specified and also be approximately equal on both sides of the canopy. Adjust accordingly.

Example:

- If the LHS clearance gap is 12mm;
- The RHS clearance gap must be 12 ± 3 mm.

If the rear window glass clearance measures outside of the above-mentioned min (9mm) and/or max (15mm) values, please contact EGR After Sales Support.