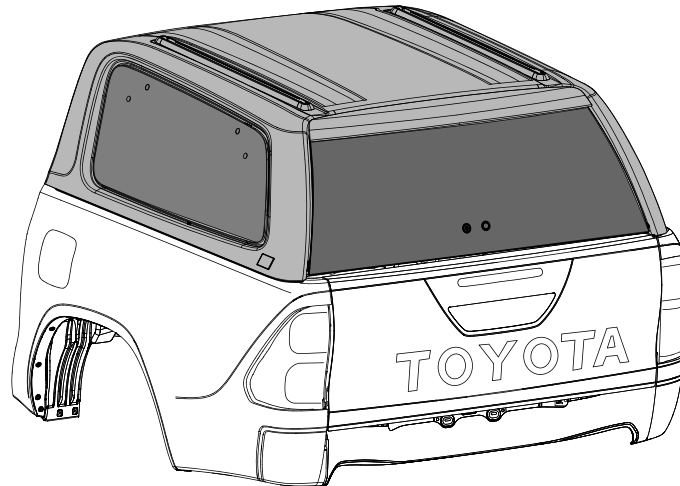


Gen III PREMIUM CANOPY
TOYOTA HILUX MY21
Installation Instructions



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

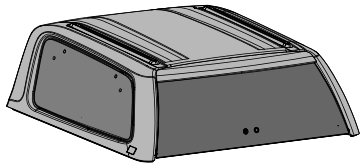


Hearing Protection

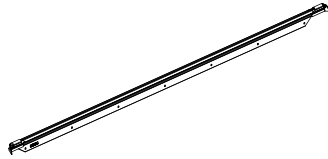
TOOLS REQUIRED:

- Drill - Ø5.5 & 9mm
- Cutting Tool
- Non-Permanent Marker
- Tape Measure
- Socket Torque Wrench
- 10mm, 13mm Socket
- Silicone
- Hole Saw
- Wrench
- Center Punch
- Marking Tape
- Rivet Gun

PARTS IN CANOPY KIT:



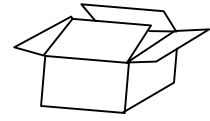
Canopy
Qty - 1



Tailgate Rail
(CNPY0098)
Qty - 1



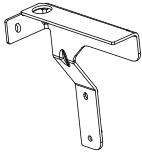
Keys
Qty - 1



Fitting Kit
(KIT)
Qty - 1

PARTS IN FITTING KIT:

1



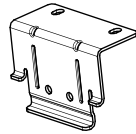
RHS Front Bracket
(CLIP4027PC-RHS)
Qty - 1

2



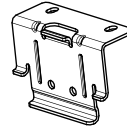
LHS Front Bracket
(CLIP4027PC-LHS)
Qty - 1

3



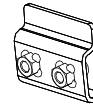
Mid Clamp Bracket
(CLIP4044PC)
Qty - 2

4



Rear Clamp Bracket
(CLIP4045PC)
Qty - 2

5



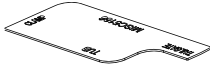
Clamp Plate
(CLIP3533PC)
Qty - 4

6



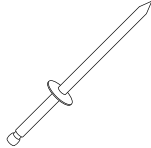
Load Spread Plate
(CLIP3945PCTX)
Qty - 6

7



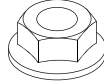
Fitment Tool
(MISC5652)
Qty - 1

8



Rivet
(FAST0609)
Qty - 7

9



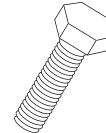
M8 Clutch Nut
(NUTS0250-1)
Qty - 12

10



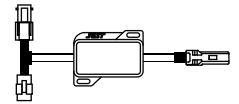
M8 Washer
(WASH0171-1)
Qty - 26

11



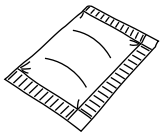
M8x30 Hex Screw
(SCRW0846)
Qty - 20

12



SPP unit
(LOOM0235)
Qty - 1

13



Rust Inhibitor
(MISC2778)
Qty - 1

14



Primer
(MISC1365)
Qty - 2

15



Alcohol Wipe
(MISC0052)
Qty - 2

16



Cable Tie (short)
(FAST0254)
Qty - 17

17



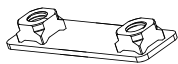
Cable Tie (Long)
(CONS1590)
Qty - 3

18



Anti-abrasion Tape
(TAPE0811)
Qty - 6

19



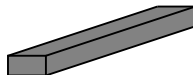
M8 Nut Plate
(MISC5470)
Qty - 2

20



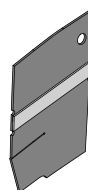
M8x20 Screw
(SCRW0949-1)
Qty - 6

21



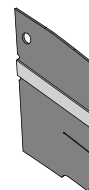
EPDM Tape
(cut in half)
Qty - 1

22

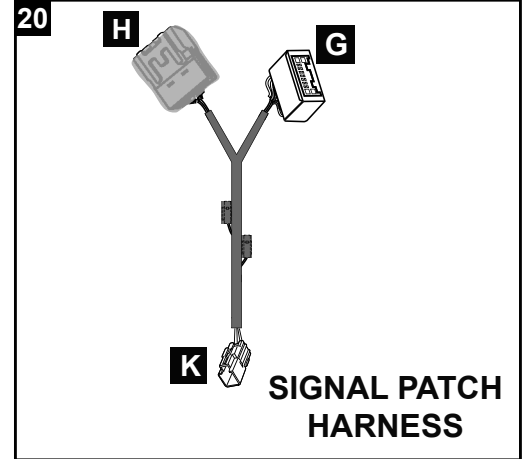
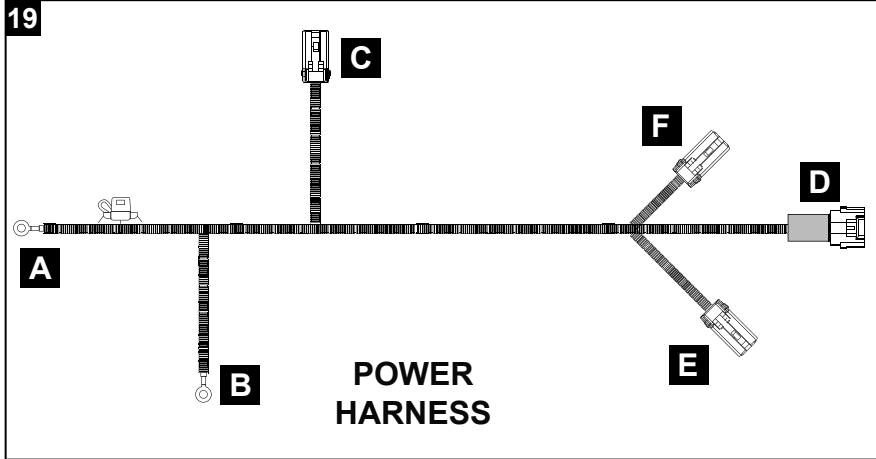


Rear Seal
MISC5823-LH
Qty - 1

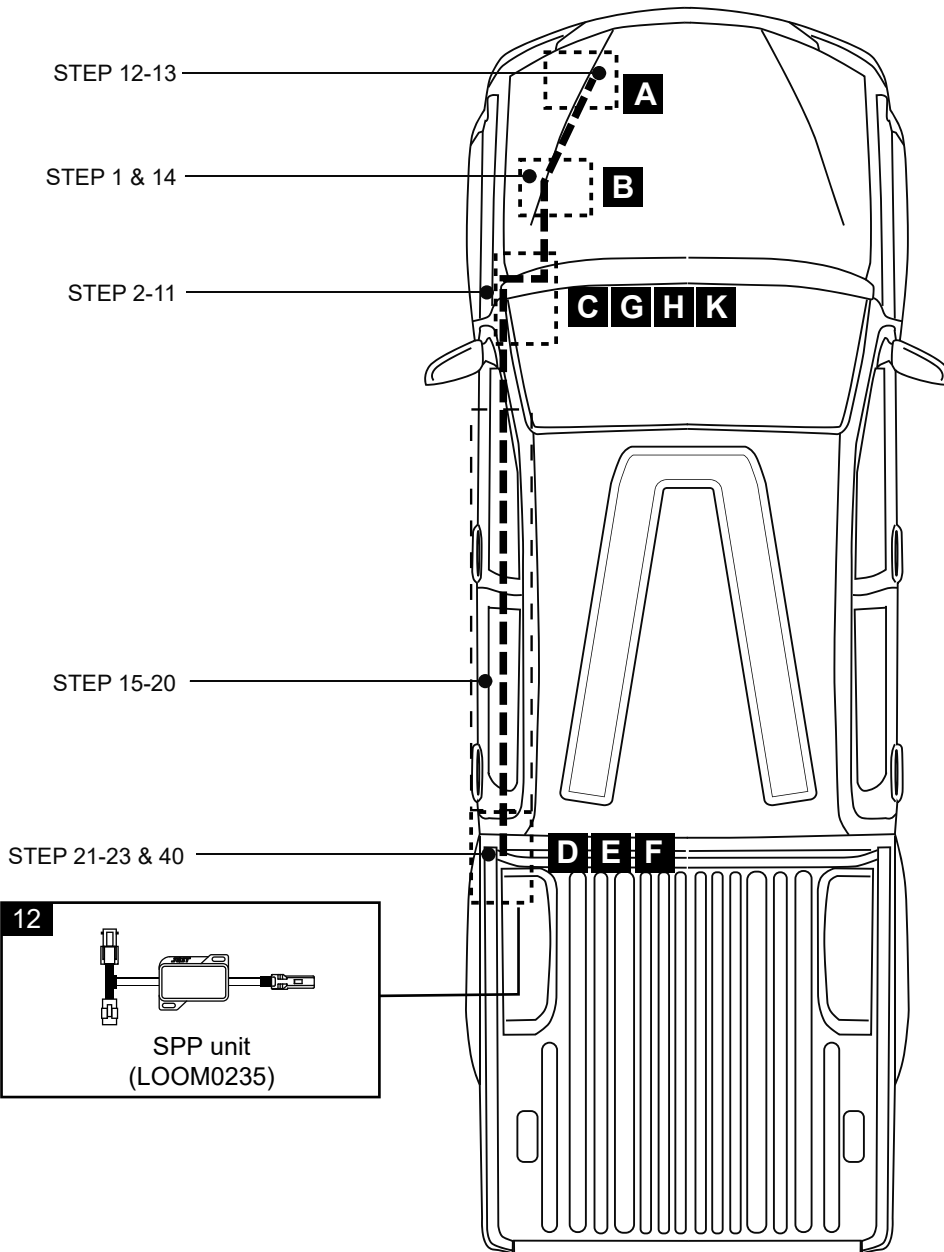
23



Rear Seal
MISC5823-RH
Qty - 1




**IMPORTANT: DISCONNECT CAR BATTERY NEGATIVE TERMINAL.
FIT THE SUPPLIED FUSES AT THE END OF INSTALLATION.**



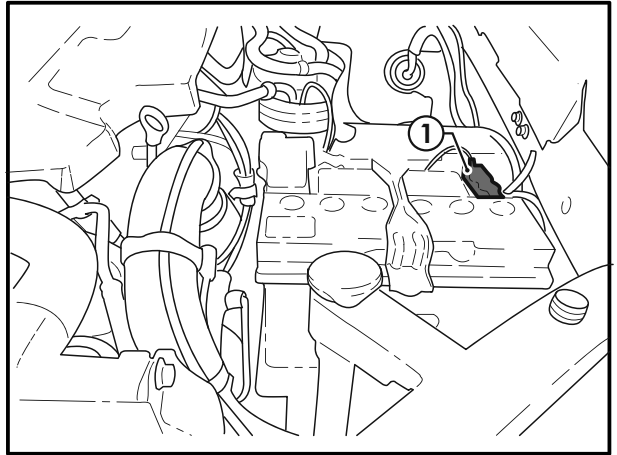
Step 1

Important



Always refer to the vehicle's Workshop manual when removing vehicle components.

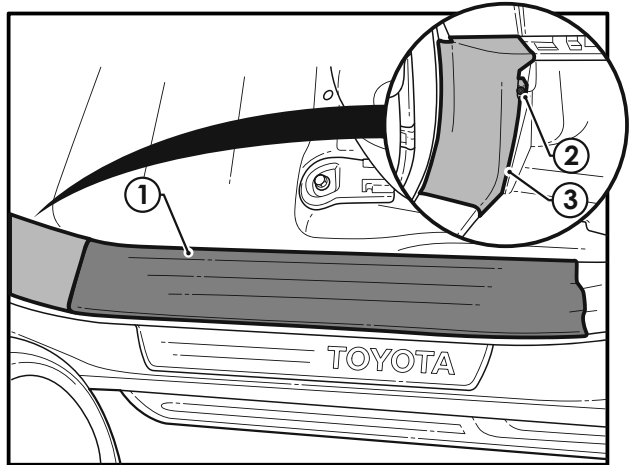
- Note down all clock and radio settings.
- Disconnect the negative terminal of the battery (1).



Step 2

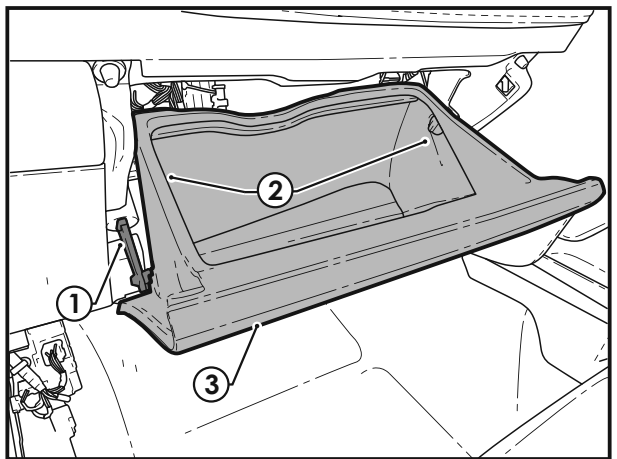
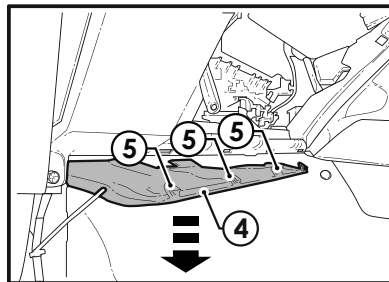
At the front passenger side foot well area:

- Remove the front passenger scuff plate (1).
- Remove the kick panel trim nut (2).
- Remove the kick panel (3).



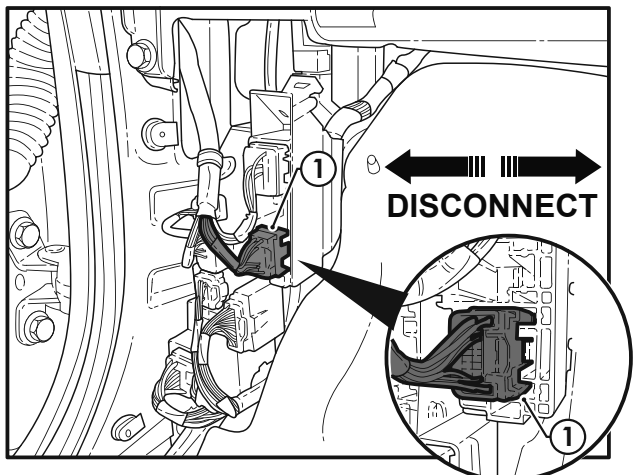
Step 3

- Unclip the glove box dampener (1).
- Remove LH and RH retaining clip (2) by rotating anti-clockwise.
- Remove the glove box (3).
- Push the 3 clips (5) and remove the lower dash garnish (4) by pulling it down.



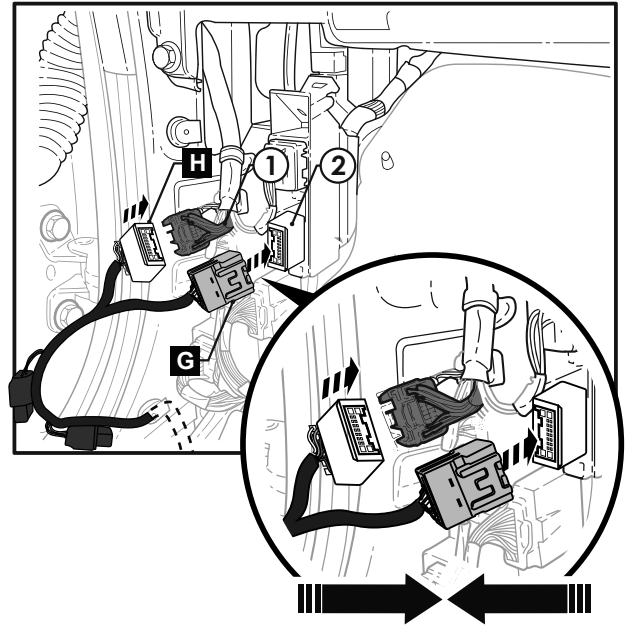
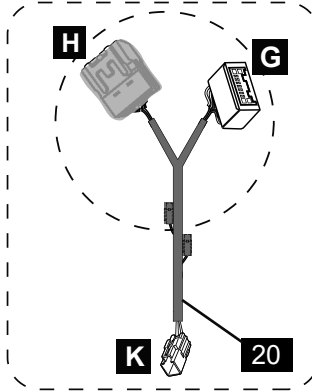
Step 4

- Locate the 20-way hybrid junction connector (1) in the **passenger side kick panel area**.
- Disconnect the connector (1).



Step 5

- In the **passenger side kick panel area**, connect the 20-way hybrid junction connector (H) from the Signal Patch Harness (20) to the disconnected 20-way connector (1).
- Connect the 20-way hybrid junction connector (G) from the Signal Patch Harness (20) to the 20-way panel socket (2) disconnected in previous step).



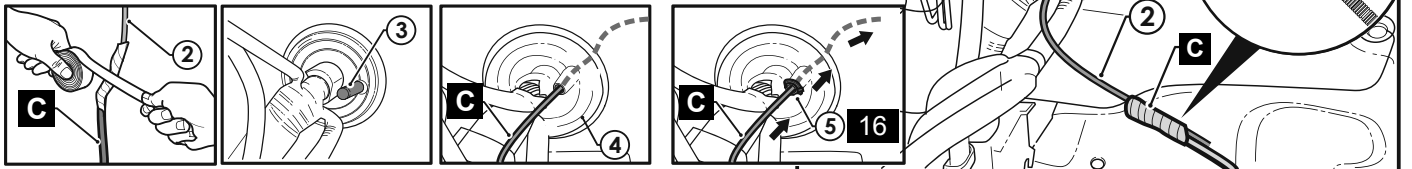
CONNECT

Step 6

- In the **engine bay area**, secure the Power Harness male terminals (C) to a guide wire (2).
- Cut the access point (3).

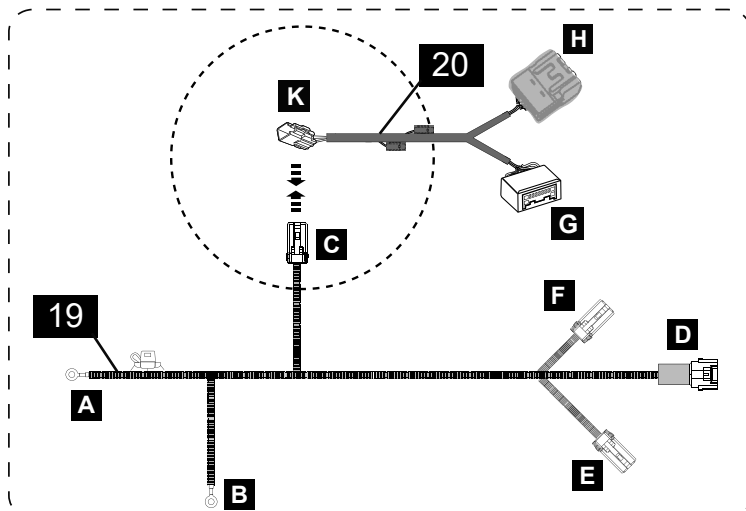
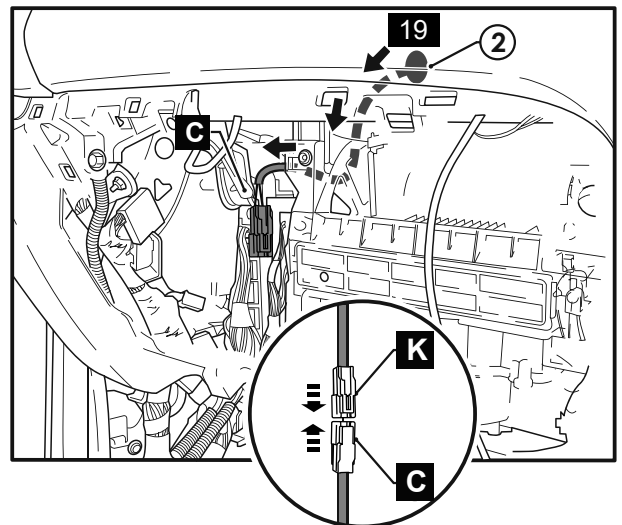
Note: If the LHS access point is occupied, use the RHS access point.

- Feed the guide wire (2) into the firewall grommet (4). Ensure the guide wire breaks the internal grommet seal.
- Seal with silicone (5) and secure with a short Cable tie (16) around the access point.



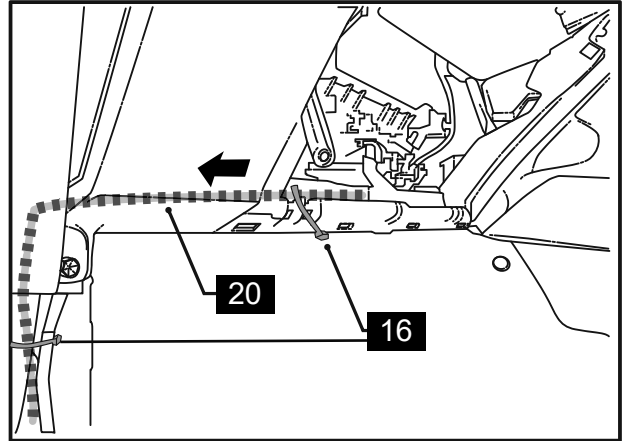
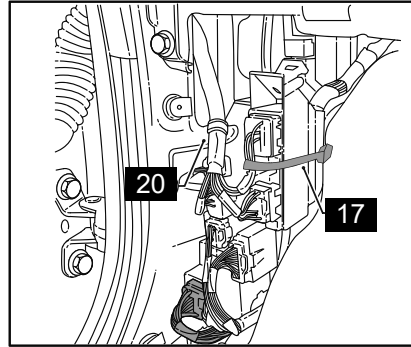
Step 7

- In the **glove box cavity area**, retrieve the Power Harness (19) terminals (C) from the firewall grommet hold (2).
- Connect the housed Power Harness (19) connector (C) to the Signal Patch Harness (20) 2-way connector (K).



Step 8

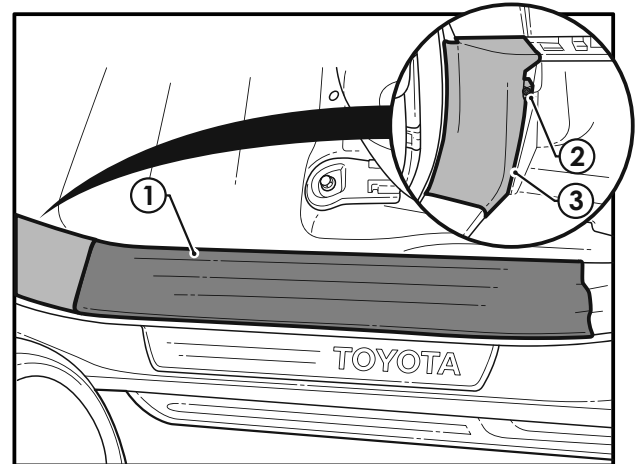
- Retain the Signal patch harness (20) behind the glove box using a short Cable Tie (16).
- Secure the harness to the connectors using short Cable Tie (16).
- Secure the harness to the connectors using long Cable Tie (17).



Step 9

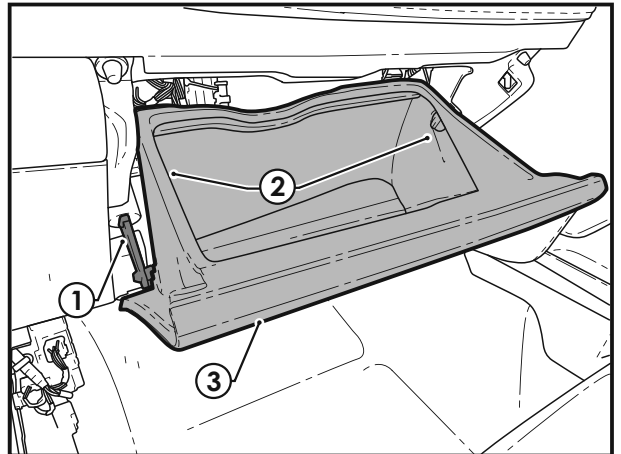
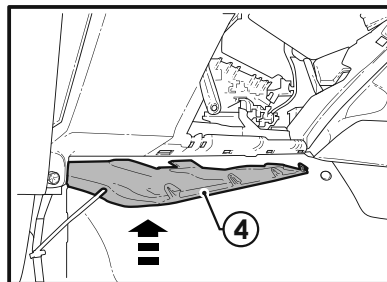
At the front passenger side foot well area:

- Refit the kick panel (3).
- Refit the kick panel trim nut (2).
- Refit the front passenger scuff plate (1).



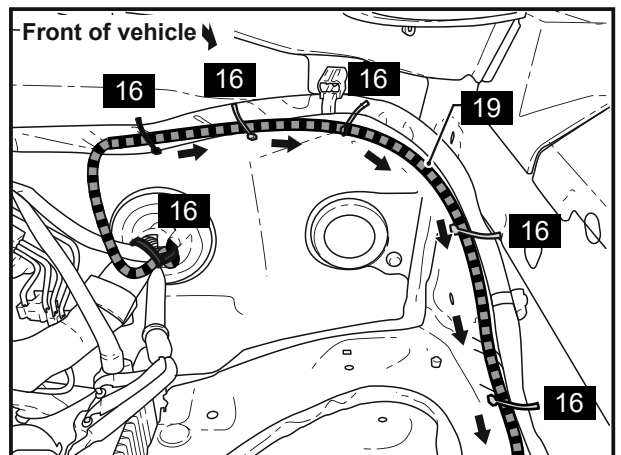
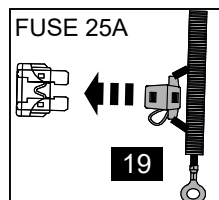
Step 10

- Refit the glove box (3).
- Refit LH and RH retaining clip (2) by rotating clockwise.
- Clip-in the glove box dampener (1).
- Refit the passenger's lower dash garnish (4) by pushing it up until the 3 clips connect.



Step 11

- Route the Power Harness (19) connector (A&B) from the firewall grommet hole towards the battery, following the vehicle harness along the LHS of the engine bay.
- Secure the Power Harness (19) to the vehicle harness using short cable ties (16) in the locations shown, every 200mm.
- Remove the fuse from the power harness (19).



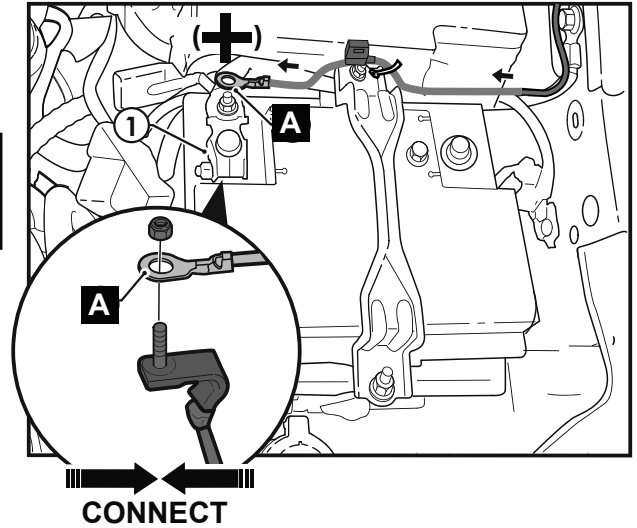
Step 12

- Route the fused RED wire 6.5mm ring terminal (A) to the positive battery terminal (1).

Important

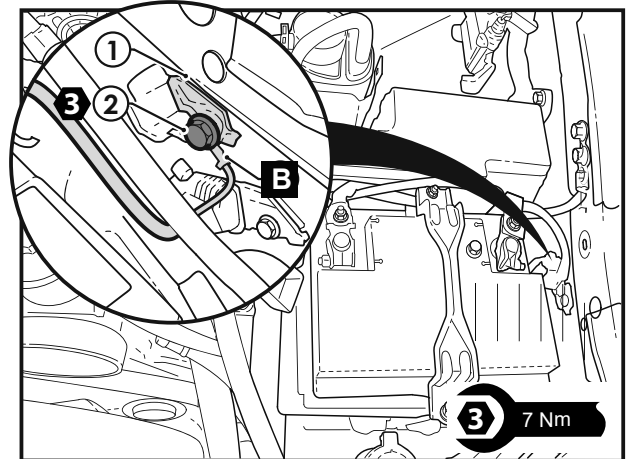


Positive battery ring terminal nut to be tighten to 13Nm.
Battery post terminal torque to be between 2.9 and 7.8Nm.



Step 13

- Secure the BLACK negative terminal (B) to the vehicle engine bay LHS wall grounding point (1) using the existing nut (2).



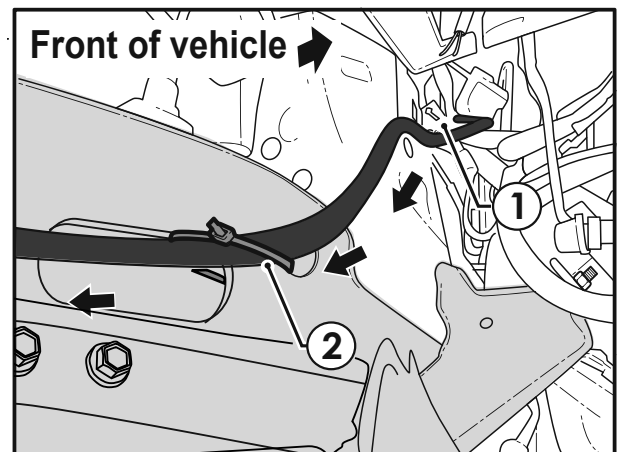
Step 14

- Pull the Power Harness (19) branch with connector (D) from engine bay down to the floor behind the front left wheel and direct towards the rear of the vehicle.
- Secure the Power Harness (19) to the chassis M6 stud using a short zip tie (16) in location 1. For the next fixing point use a short cable tie (16) through existing holes in chassis (2) as shown.

Important

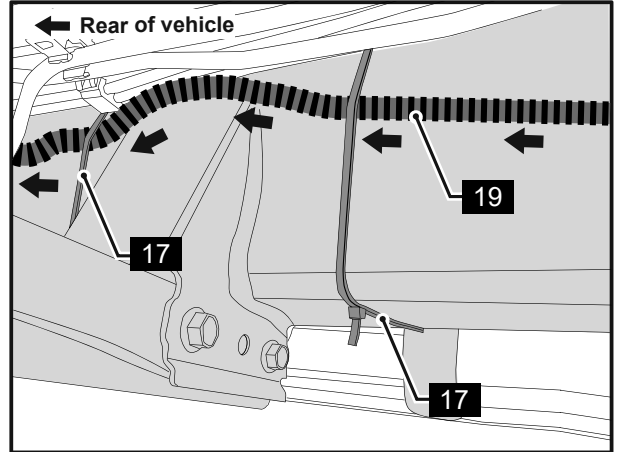


Avoid sharp edges, brake lines and sources of heat.



Step 15

- Route Power Harness (19) along the **chassis inner face**.
- Use long cable tie (17) to secure the harness (19) to the chassis in the two positions shown.



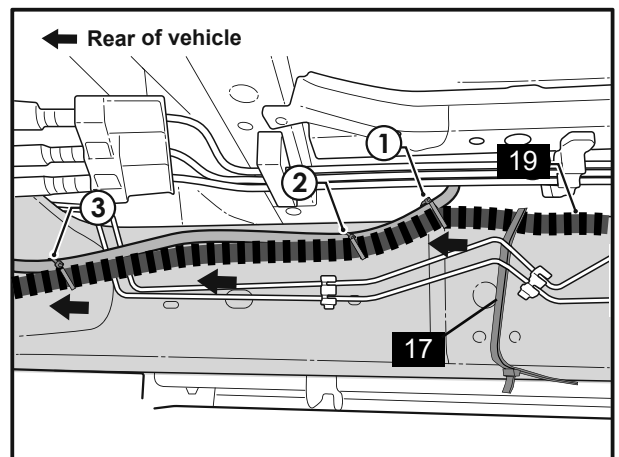
Important



Avoid sharp edges, brake lines and sources of heat.

Step 16

- From the **chassis inner side**, secure vehicle harness (19) as shown using a long cable tie (17).
- Secure the power harness to existing harness short cable ties (16) in locations shown (1,2,3).



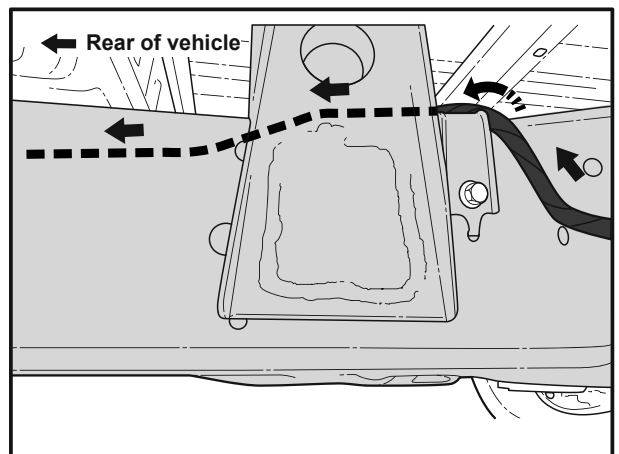
Important



Avoid sharp edges, brake lines and sources of heat.

Step 17

- Continue routing along the chassis rail towards the LHS front tub panel.
- IMPORTANT:** At this point place the Power Harness over the top of the chassis rail to the outside of the rail.



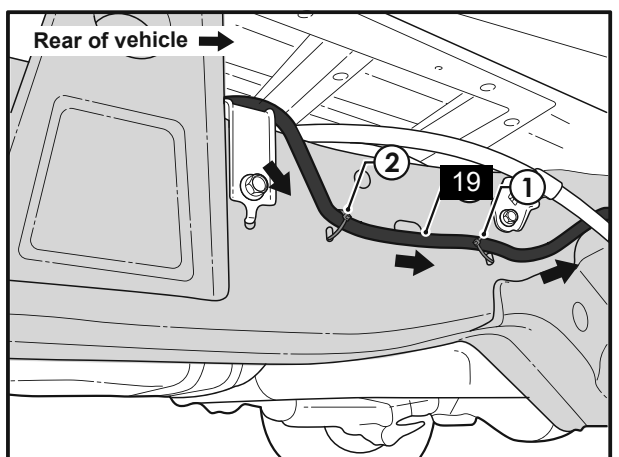
Important



Avoid sharp edges, brake lines and sources of heat.

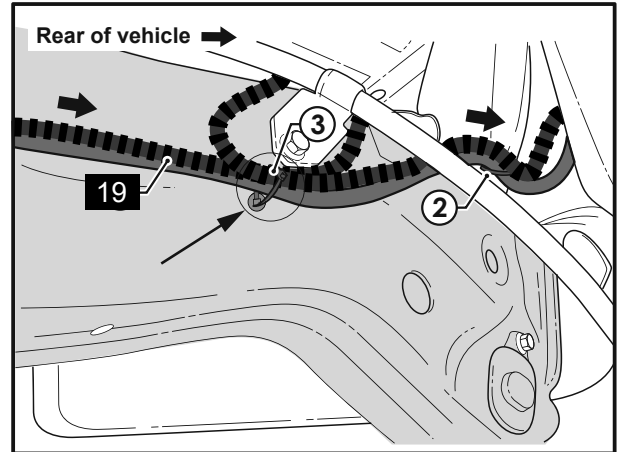
Step 18

- Continue routing along the outside of the chassis rail towards the LH front tub panel.
- Secure the Power Harness (19) to the chassis using supplied short cable ties (16) at the locations shown (1,2).



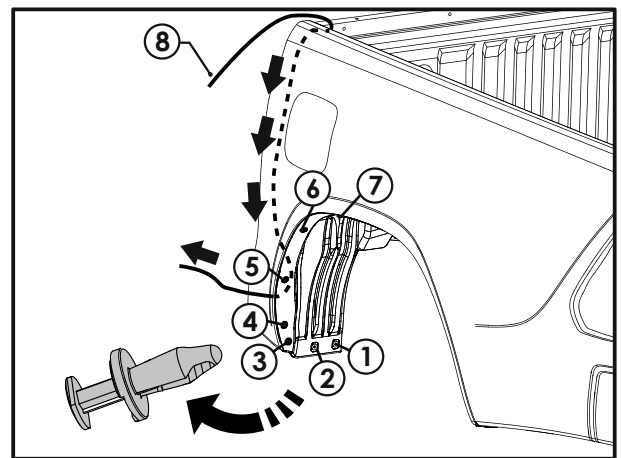
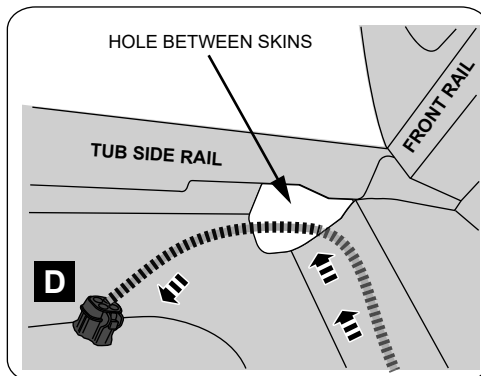
Step 19

- Secure the Power Harness (19) with a short cable tie (16) to the existing hole in the chassis (2).
- Loop the Power Harness (19) and secure with a short cable tie to the existing harness.



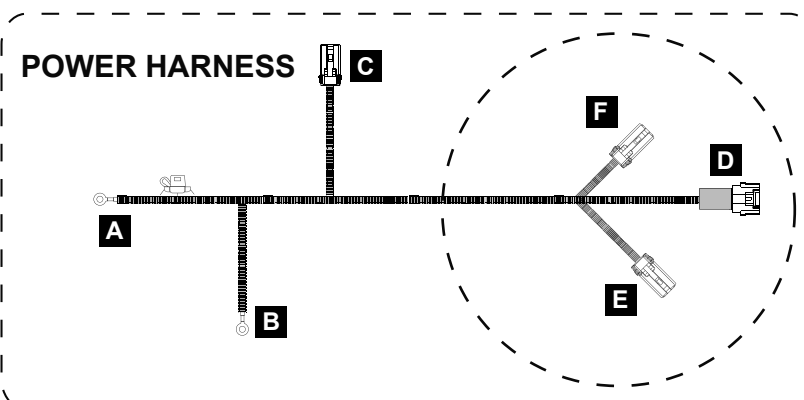
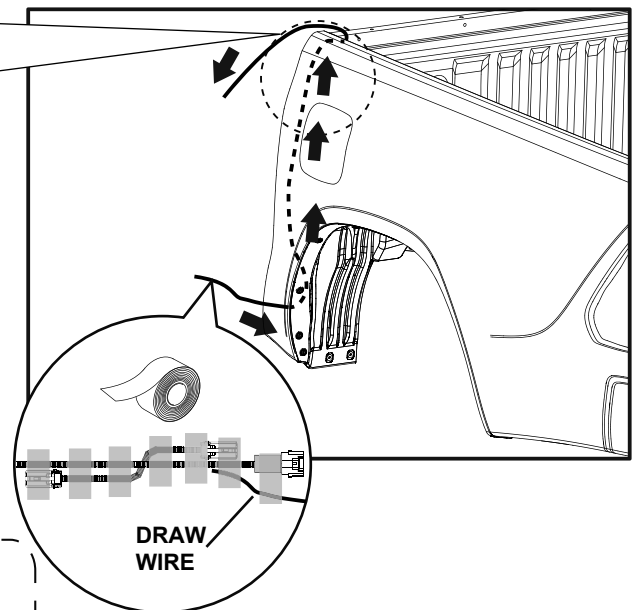
Step 20

- Remove 7 scrivenets from the inner wheel arch liner and retain.
- Feed a draw wire (8) down the rat hole from the inside of the tub. Retrieve the wire from behind the wheel arch liner.



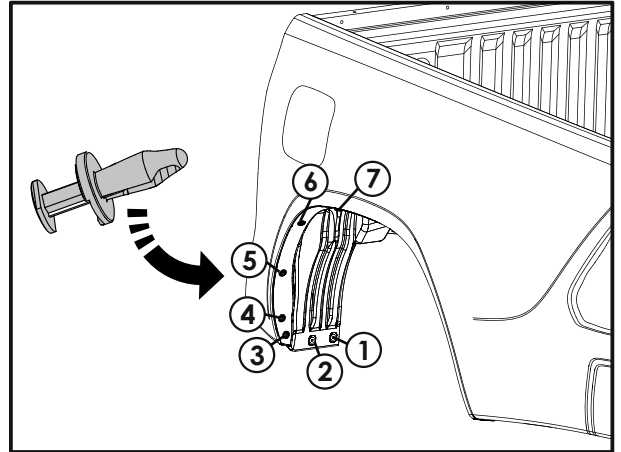
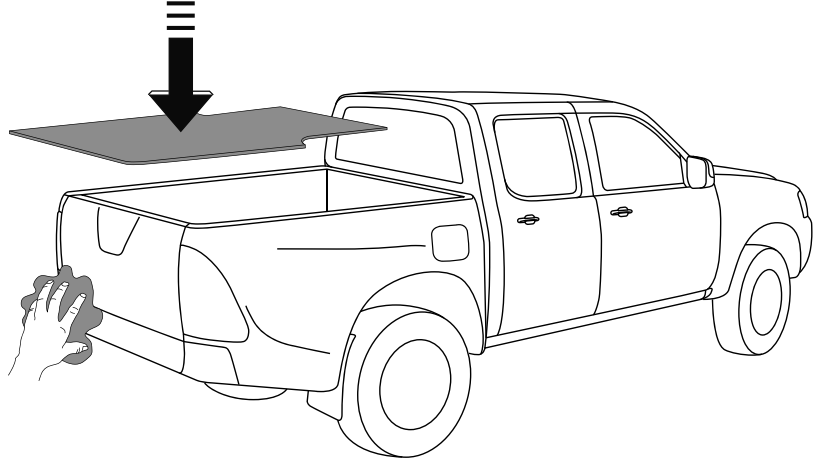
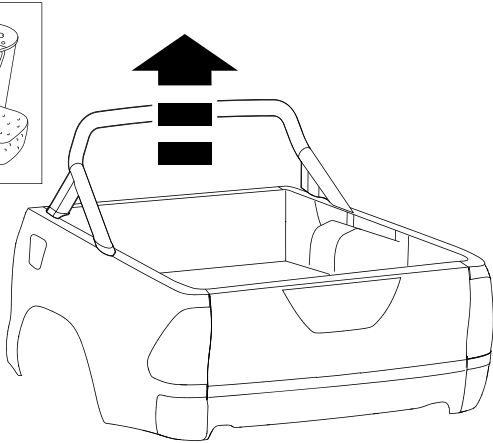
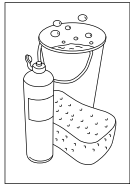
Step 21

- Tape the ends of the wire harness so they are flat.
- Tape the Power Harness to the draw wire.
- Pull the Draw wire through the top till the power harness is through the rat hole

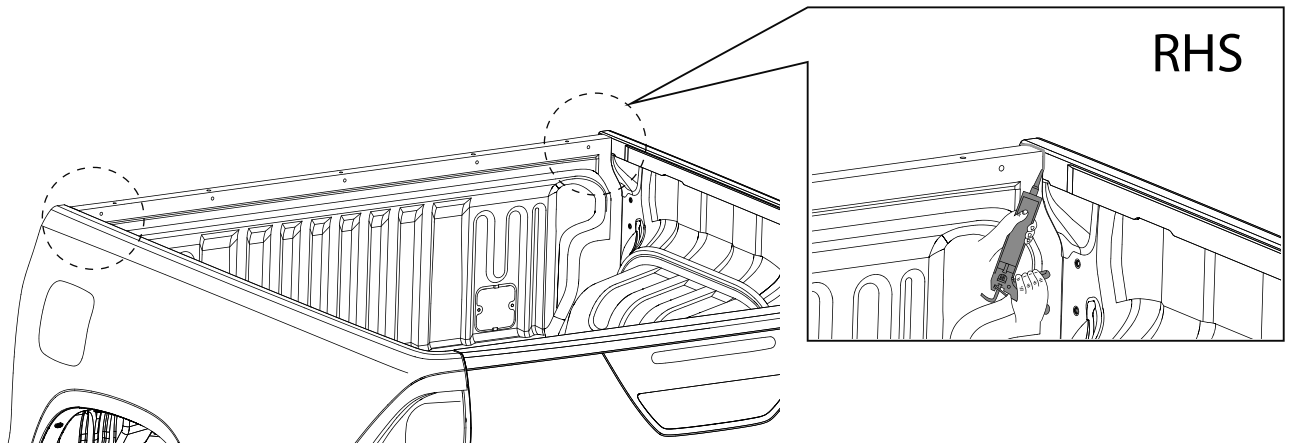
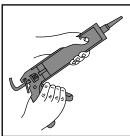


Step 22

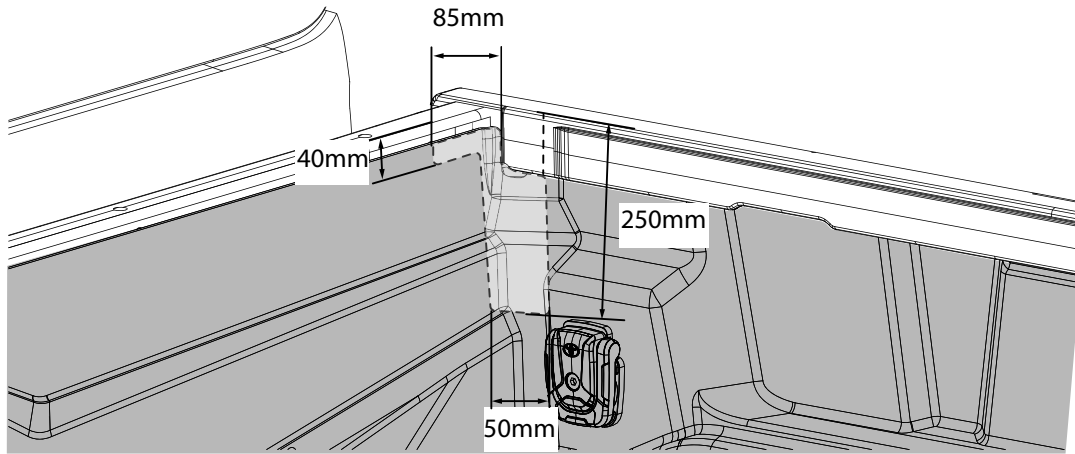
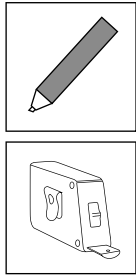
- Reinstall the 7 scrivets removed from step 21.

**END OF ELECTRICAL SECTION**

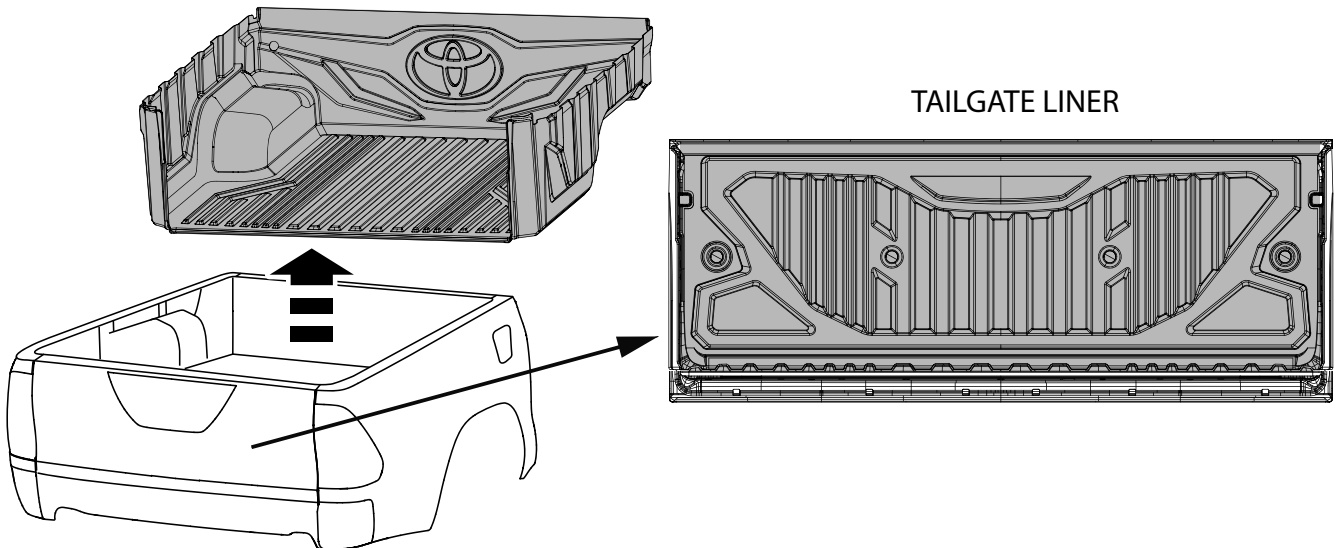
STEP 23 Remove any accessories attached to the tub (e.g. Rack Systems, Sports Bars, Cabin Guard). Thoroughly clean and dry the installation areas (tub, rear of cabin and glass). Place a mat or blanket to protect the tub floor while working.



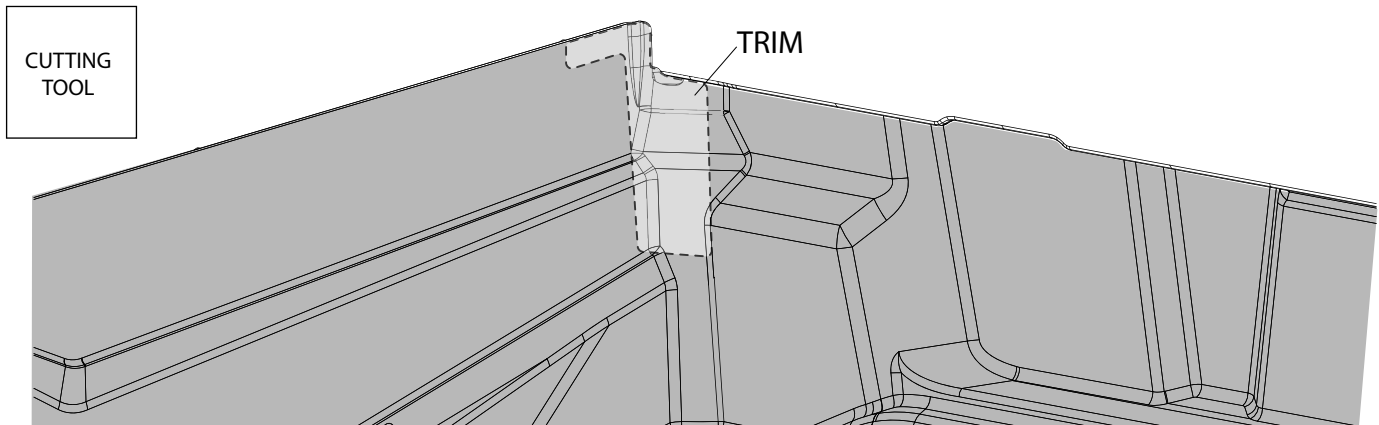
STEP 24 Apply non-acetic silicone (neutral cure) to the RHS top of the tub and inside the tub at the joint between the front and side panels. Re-spray silicone with water and push silicone into gaps. Clean up excess silicone. Repeat process for LHS.

TUB LINER TRIMMING STEP 26-30

STEP 25 **Note:** Skip step 26 to 30 if there is no tub liner.
Note: measurements were made using the top of the tub rail.
Whilst the tub liner is in the tub, measure the dimensions as shown and mark with a non-permanent marker.

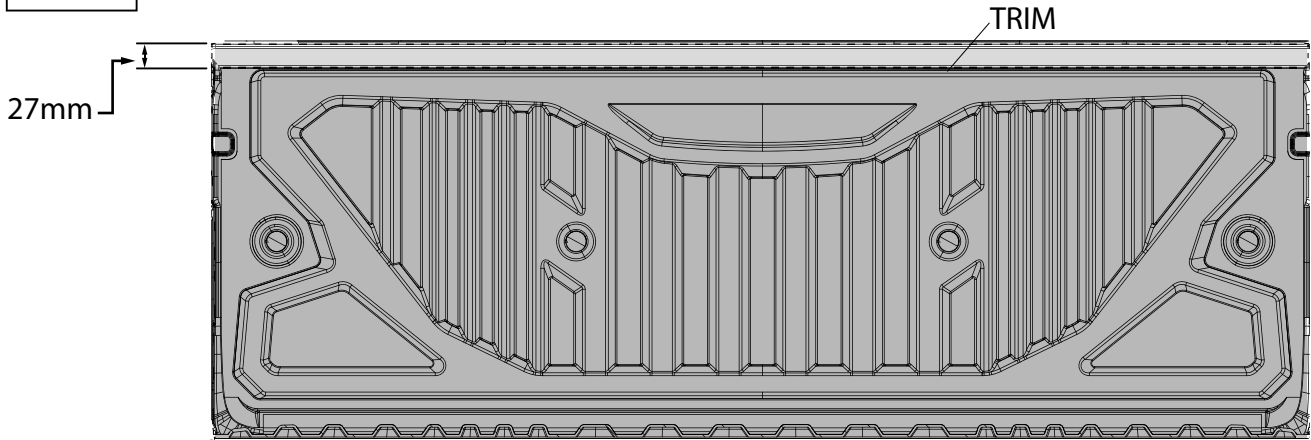


STEP 26 Remove the tub liner and ensure to detach anchor points and retain. Remove Tailgate liner from the tailgate.



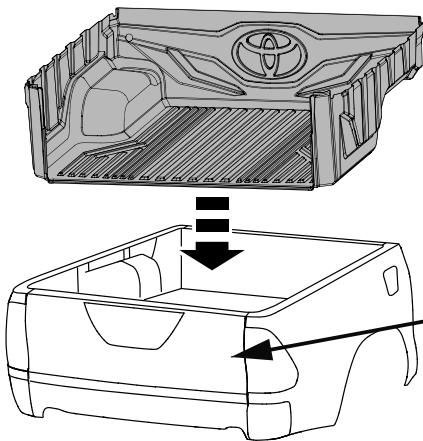
STEP 27 Trim the previously marked sections on the tub liner using an appropriate cutting tool.

CUTTING
TOOL

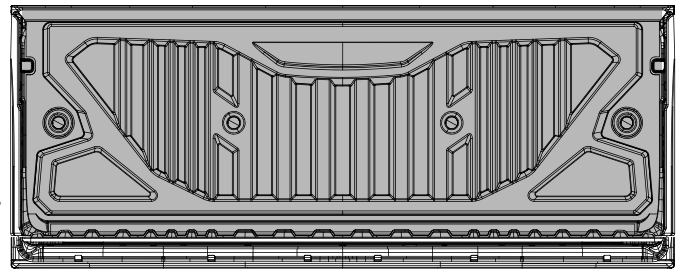


STEP
28

Trim 27mm off the top of the tailgate liner using an appropriate cutting tool.

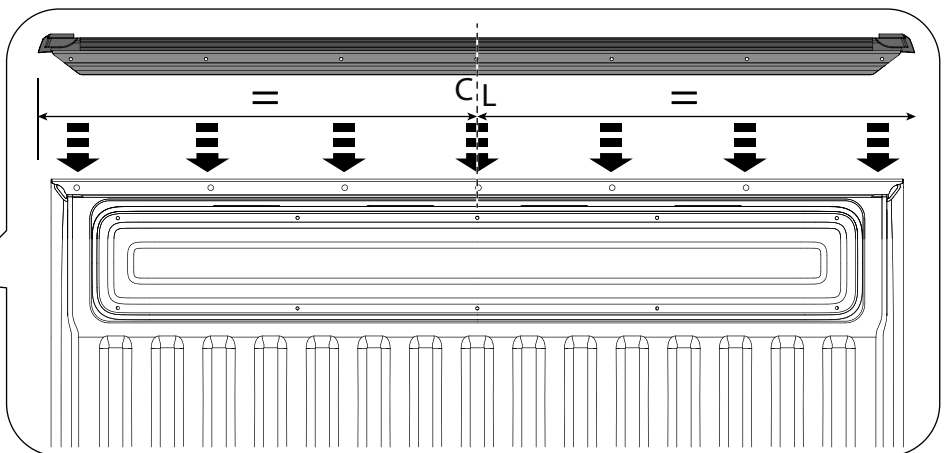
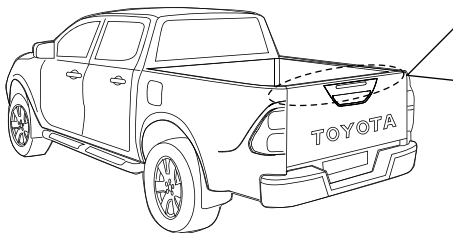
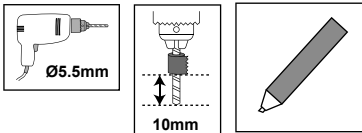


TAILGATE LINER



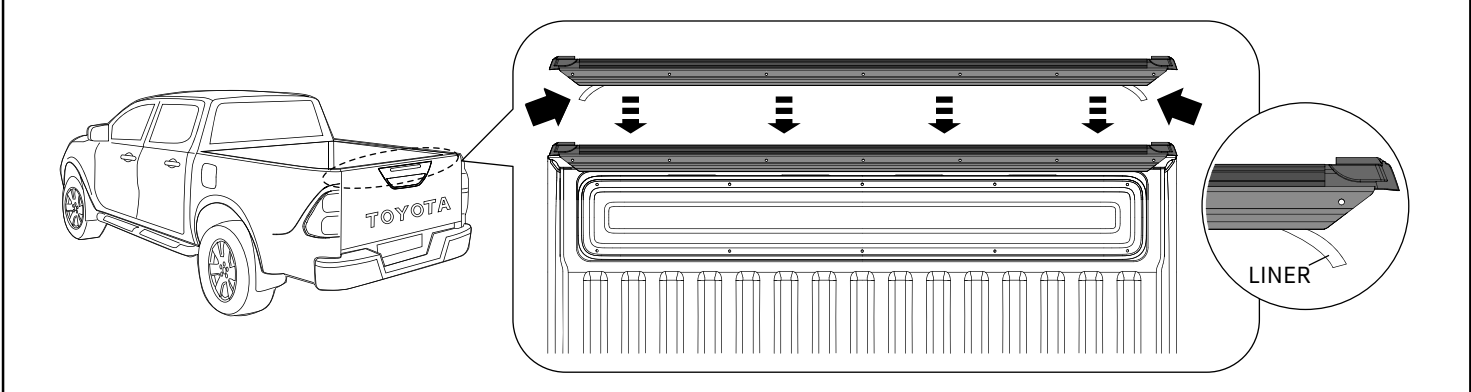
STEP
29

Reinstall the tub and tailgate liner.

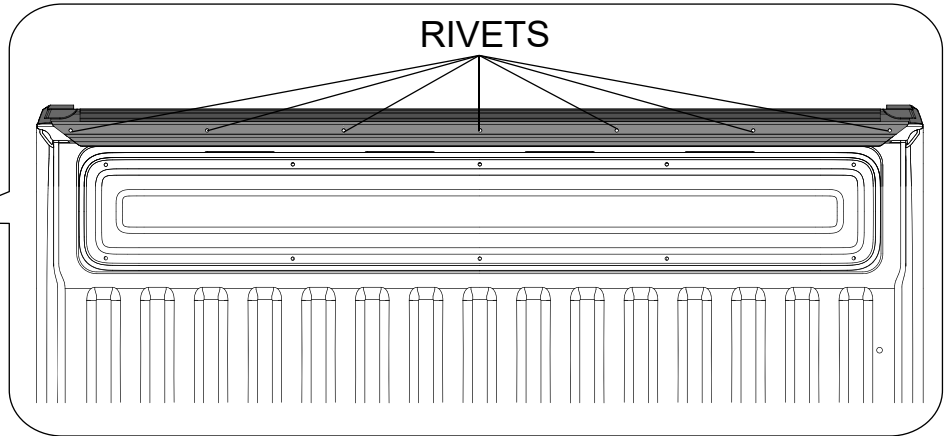
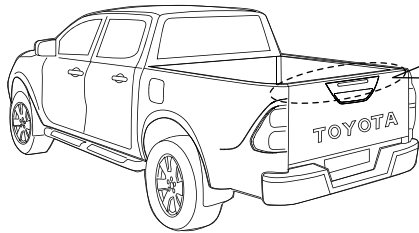
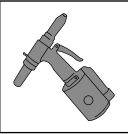


STEP
30

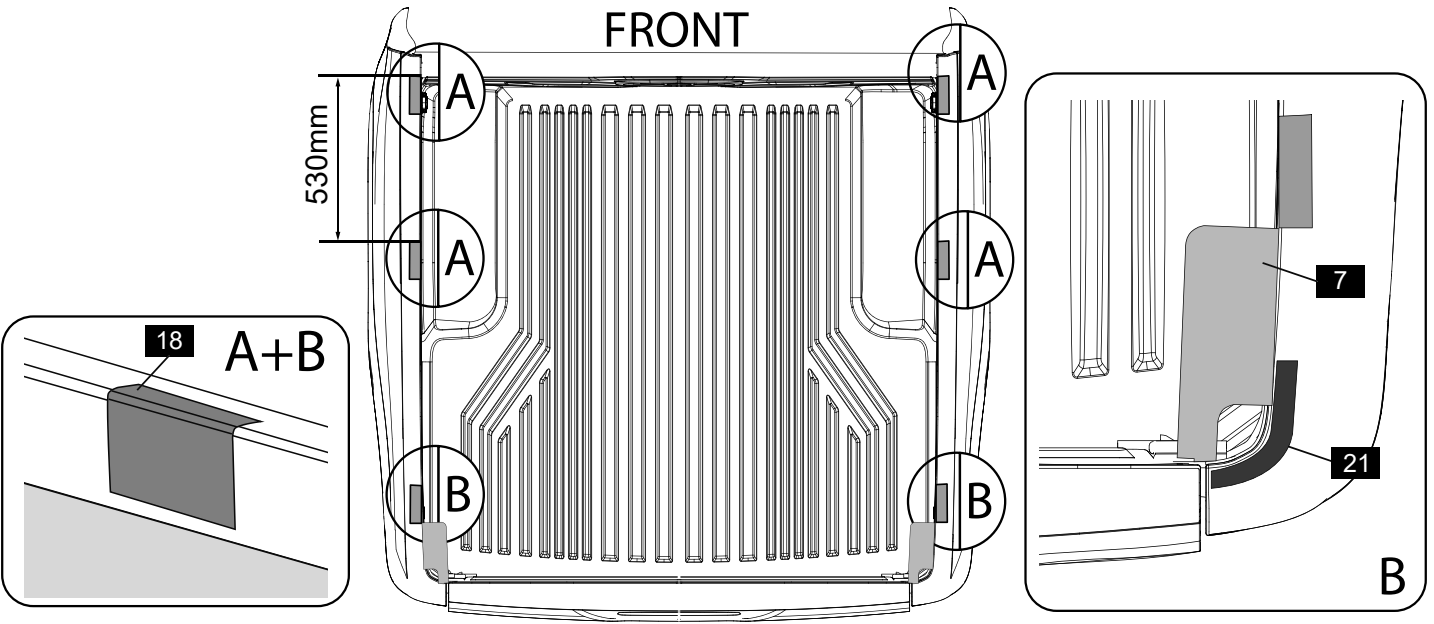
Using a non permanent marker, measure and mark a line across the center of the Tailgate Rail and the center of the tailgate (as shown). Place the Tailgate Rail on the tailgate and check that the Rail is an equal distance from each end of the tailgate. Placing the Tailgate Rail on the tailgate, mark the holes on the front of the tailgate using a non-permanent marker. Remove the Tailgate Rail. Using the holes marked, drill out the seven Ø5.5mm holes into the tailgate. Apply Rust Inhibitor (13) to all drilled holes in the tub sheet metal.



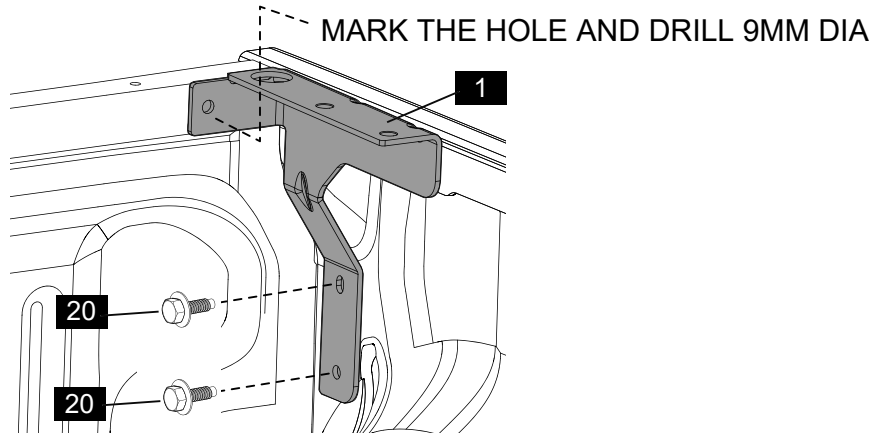
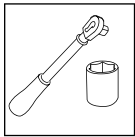
STEP 31 Remove 50mm of the liner from the double sided tape on the Tailgate Rail. Fit the Tailgate Rail to the tailgate, aligning with the previously marked center lines. Loosely insert the Rivets (8) through the holes in the Rail and into the tailgate, then remove liner from the double sided tape by pulling on the liner hanging from the ends of the Tailgate Rail.



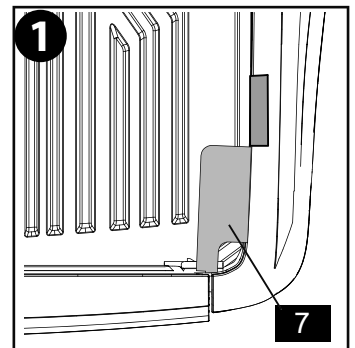
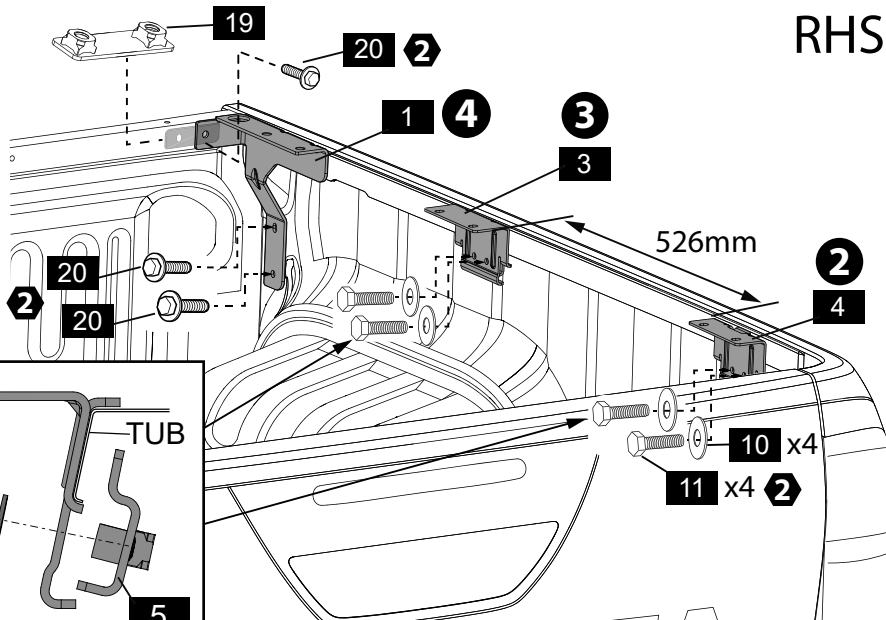
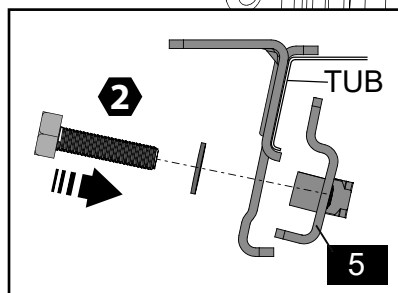
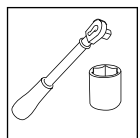
STEP 32 Secure the Tailgate Rail with seven Rivets (8). Apply firm pressure on the Tailgate Rail to ensure maximum adhesion of the tape. Refit the tailgate liner (if required).



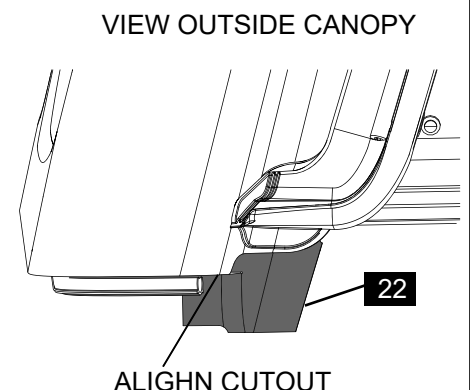
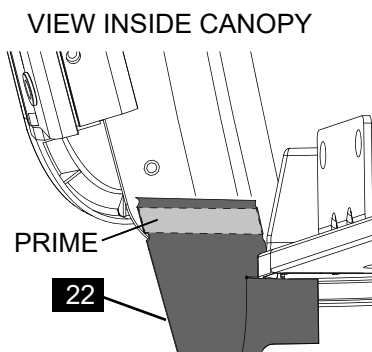
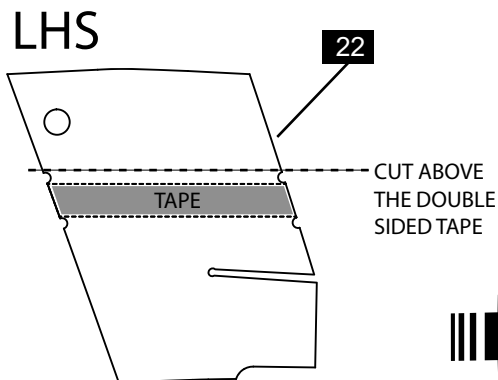
STEP 33 Begin measurement from the top inside of the header rail, mark measurements shown and apply anti-abrasive tape (18) to the edge of those measurements as shown. For the rear tape (21), align the tape to the edge of the fitment tool (7). Cut the EPDM foam tape (21) in half and apply to the top inside edge of the tub as shown on RHS and repeat for LHS.
NOTE: Ensure that the tape is applied on the top of the tub towards the inner lip.



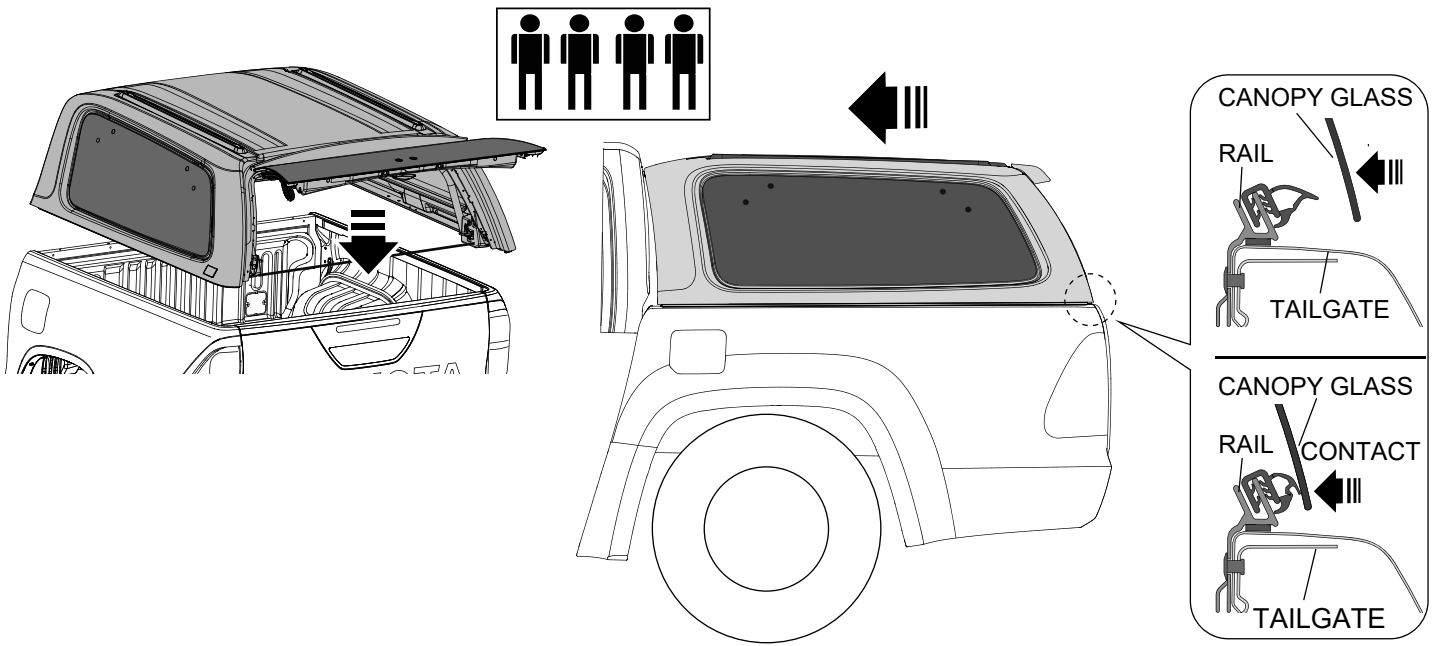
STEP 34 Fit the front Corner Bracket (1) to the tub and secure with two screws (20). Mark the center of the front hole as shown. Remove the bracket and drill 9mm hole in the tub. Apply rust inhibitor (13) to drilled hole.



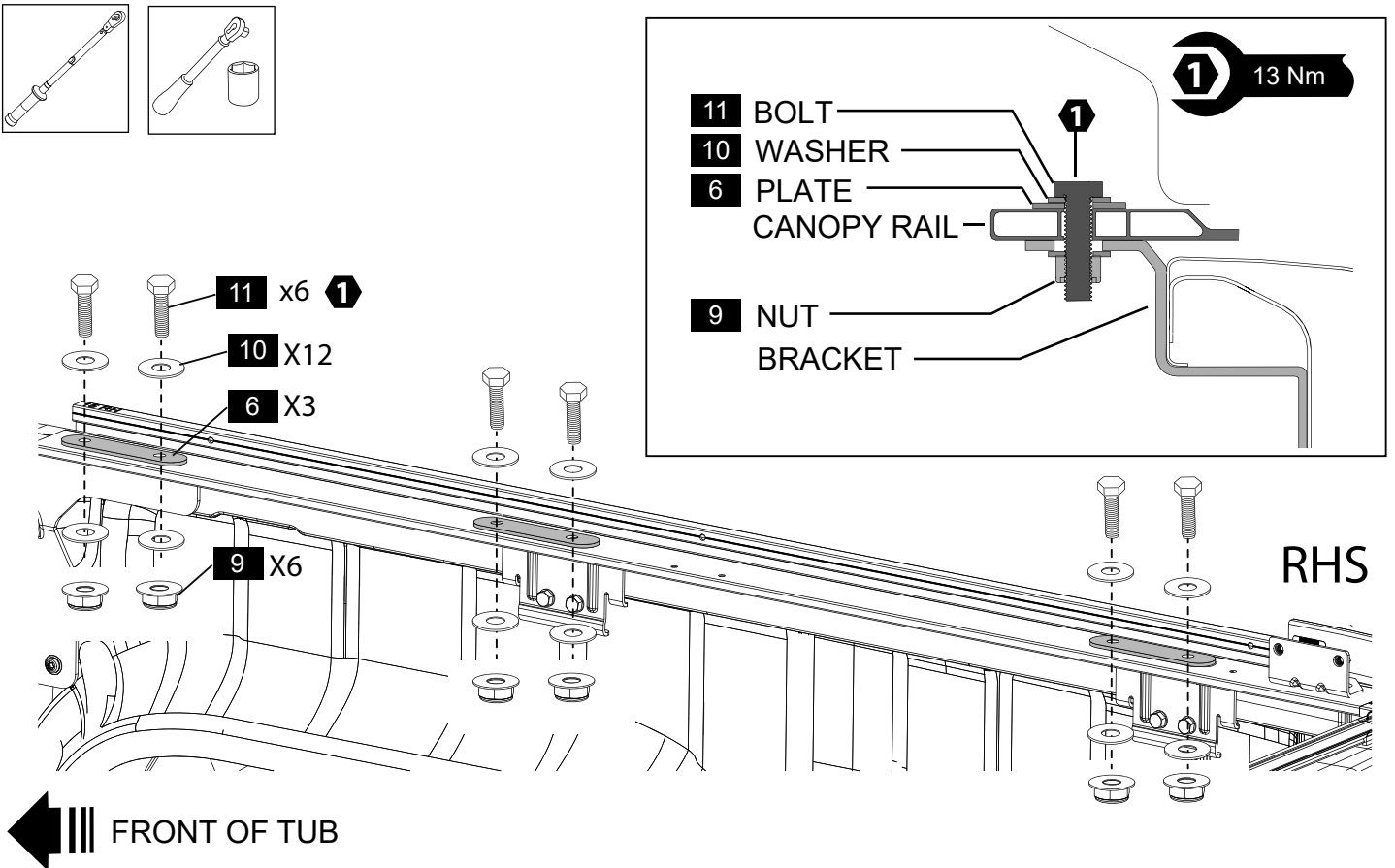
STEP 35 Using the fitment tool (7) apply Rear Clamping Bracket (4+5) to the tub using two M8 Hex Bolts (11) and two Washers (10). Then measure 526mm from the edge of the rear bracket and apply the Mid Clamp Bracket (3+5) to the tub with two M8 Hex Bolts (11) and two Washers (10). Fix the Front Corner Bracket (1) using two Hex Bolts (20). At the front of the tub place the Nut plate (19) and secure with one screw (20). Torque all Bolts (11) & (20) to 20Nm. Repeat for LHS.



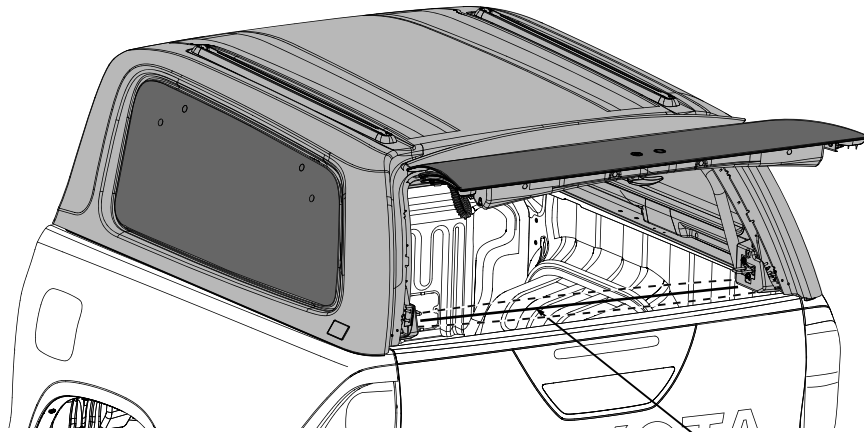
STEP 36 Trim the Rubber Deflector (22) above the double sided tape and discard the top part. Prep the surface on the canopy with alcohol wipe (15) and primer (14). Place the Rubber Deflector on the inside of the tub aligning the cut in the rubber with the bottom edge of the canopy as shown on the LHS. Remove the tape liner and press the rubber hard against the canopy. Repeat for the RHS.



STEP 37 With the rear canopy window open, gently lower the Canopy onto the tub, aligning canopy holes with those of the brackets installed on the tub.
 With one person inside the Canopy, slowly close the rear canopy window, and note how it closes. It should not touch the top of the tailgate and fully compresses the rubber extrusion of the Tailgate Rail. If it fails to close correctly, see the striker adjustment guide (page 18).



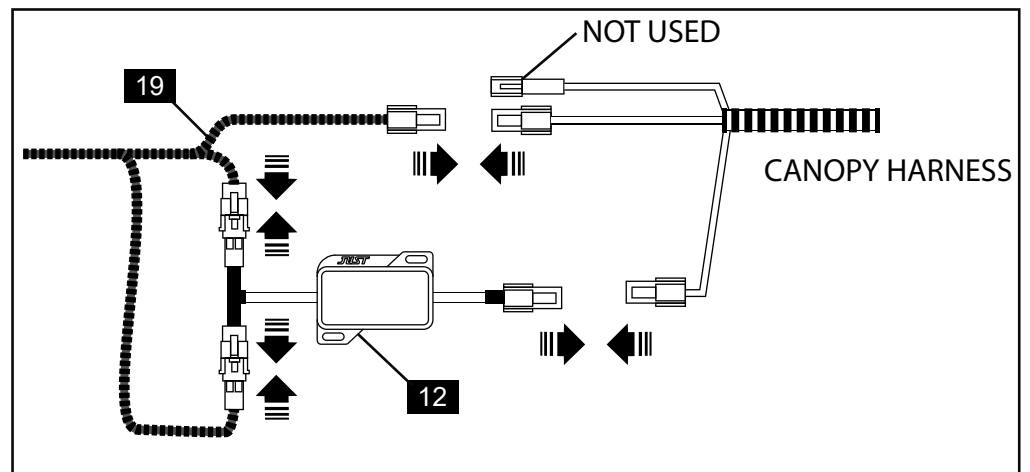
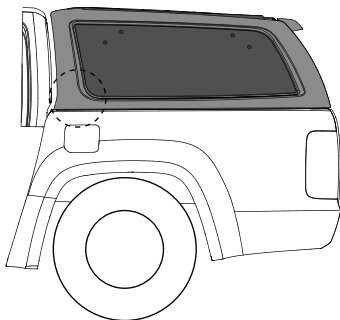
STEP 38 Place the load spread plates (6) on top of the Canopy Rail and loosely secure all brackets with two Bolts (11), four Washers (10) and Nuts (9). Once all brackets inside of the tub have been lined up and loosely secured. Torque all Bolts (11) to 13Nm in order front to rear. Repeat for LHS.



REMOVE
WIDTH SETTING CABLE

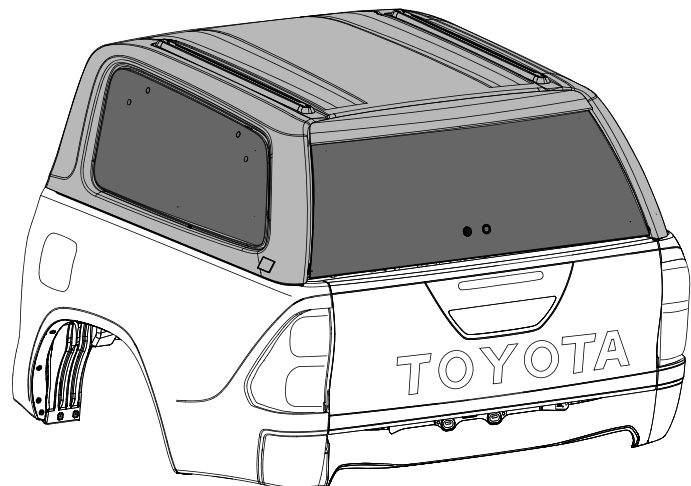
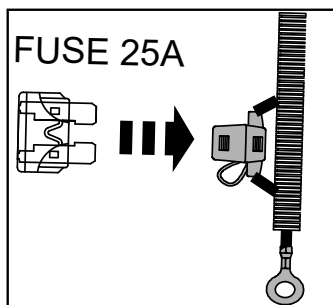
STEP
39

Remove width setting cable from rear of the Canopy.



STEP
40

Connect the SPP unit (12) to the Power Harness (19) and the canopy harness as shown.



STEP
41

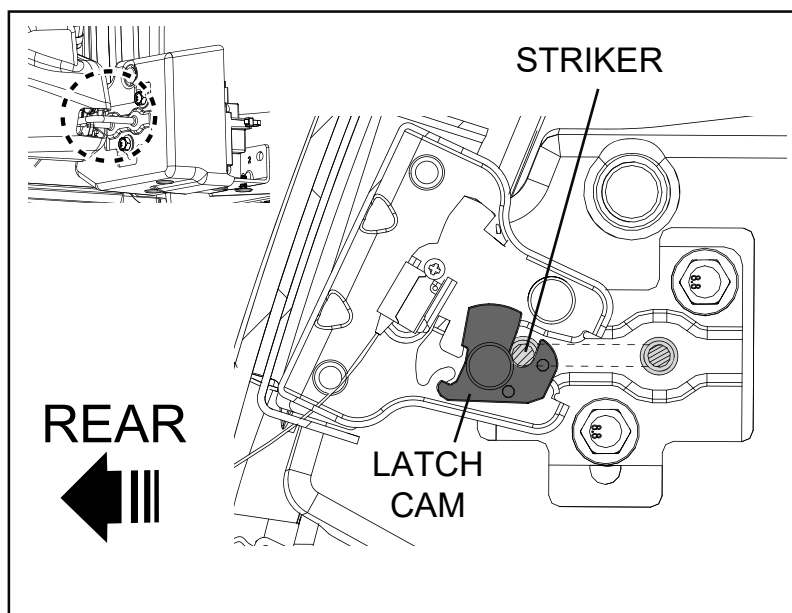
Reconnect the negative battery terminal. Install previously removed and retained fuse into the positive fuse terminal on the Vehicle Harness (19). Lock and unlock vehicle once to kick the ECU into action. Check the function of the canopy central locking, brake lights and interior lights.

GEN 3 PREMIUM STRIKER ADJUSTMENT GUIDE

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.

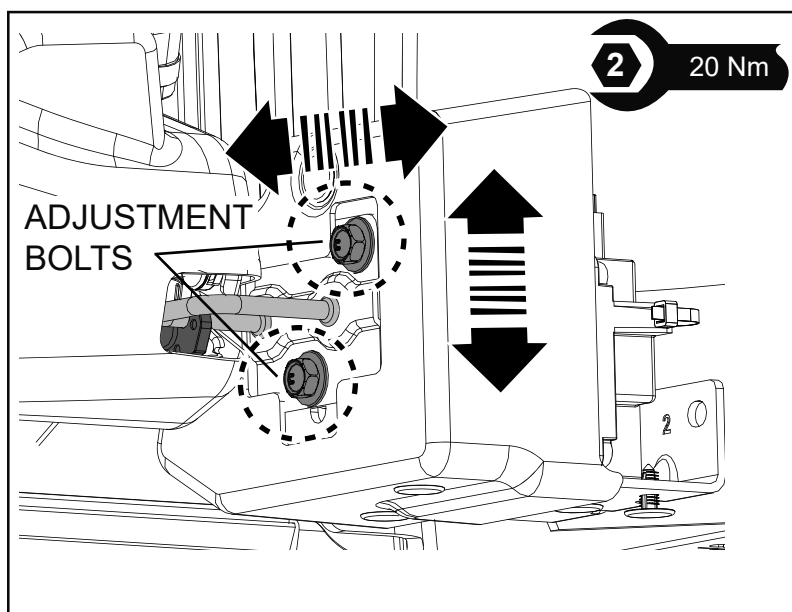


2. If the striker is not engaging the latch, the depth or height of the Striker will need to be adjusted.

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.



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 16mm, the RHS clearance gap must be $16 \pm 3\text{mm}$.

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.

