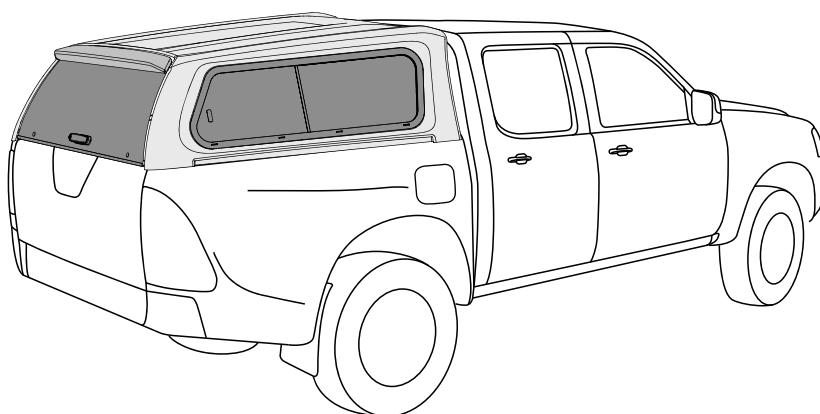


CANOPY LAMP & LOCK HARNESS FITTING INSTRUCTIONS TOYOTA HILUX A-deck 2015 ~



Installation Time: Approx. 60 Minutes

Important



- Do not tighten any bolts, screws and nuts that are used in the 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



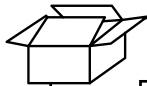
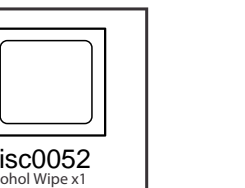
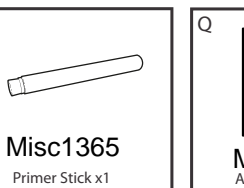
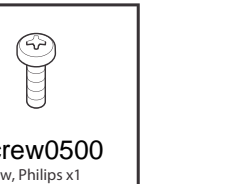
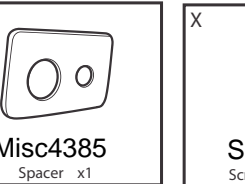
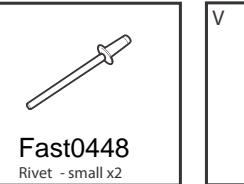
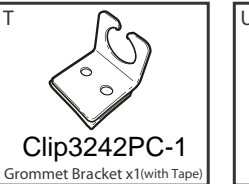
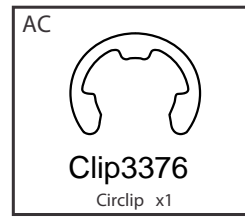
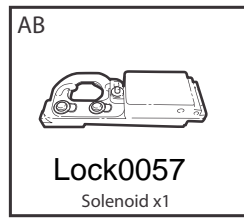
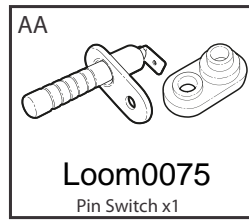
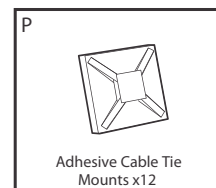
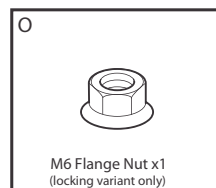
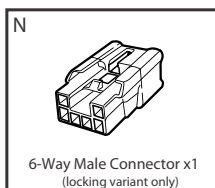
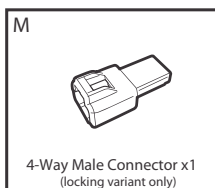
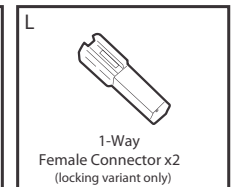
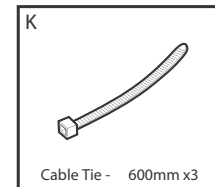
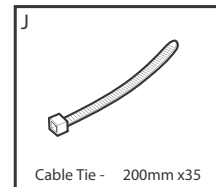
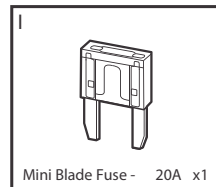
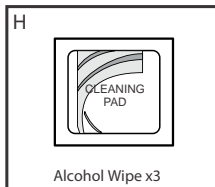
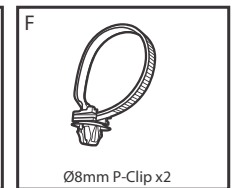
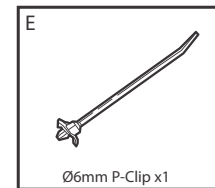
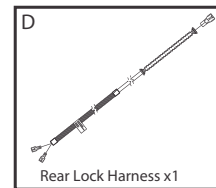
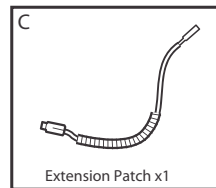
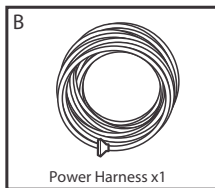
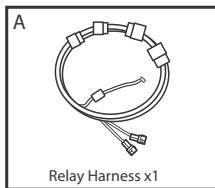
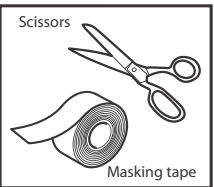
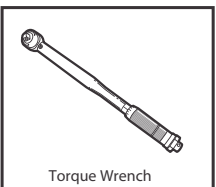
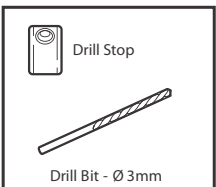
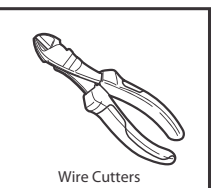
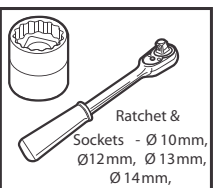
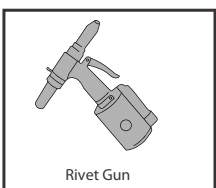
Rubber Gloves



Goggles



Hearing Protection

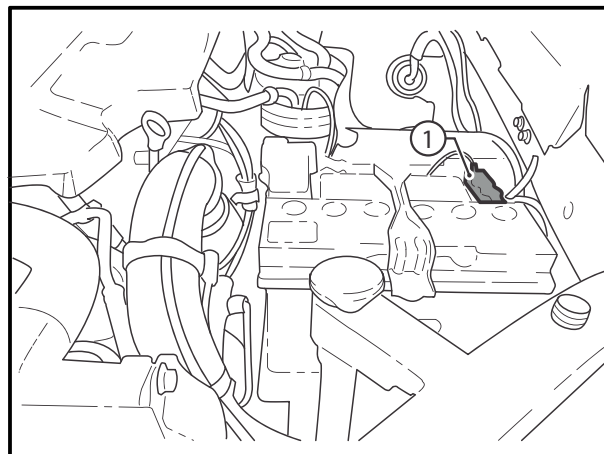

PARTS IN MAIN CARTON

PARTS IN VEHICLE WIRING KIT - LOOM0071 (not to scale).

TOOLS REQUIRED:


Step 1

Important


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

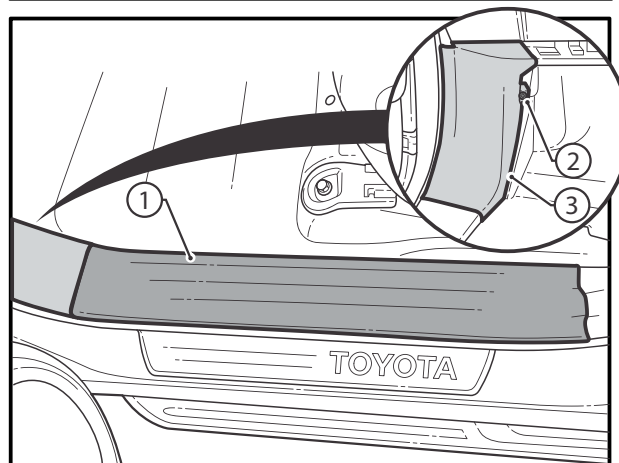
- Note down all clock and radio settings
- Disconnect the negative terminal of the battery (1) in the engine bay.



Step 2

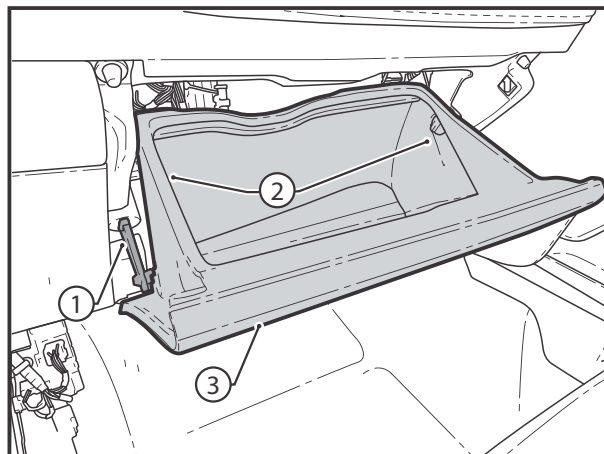
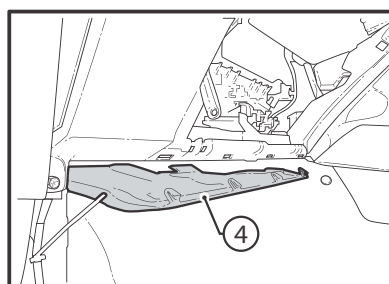
At the front passenger side foot well area:

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



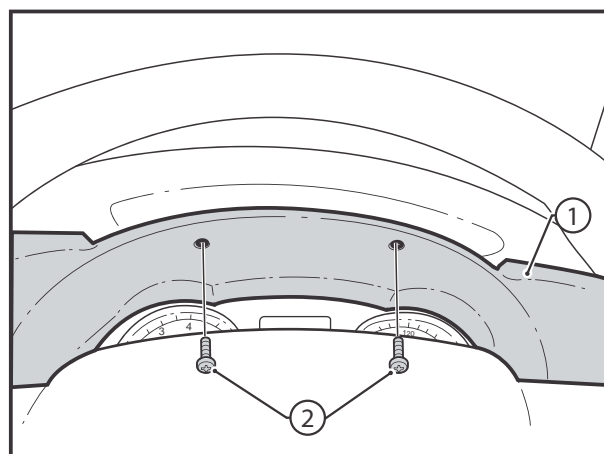
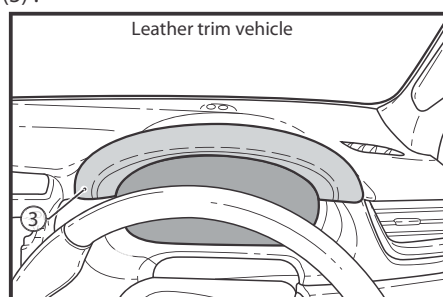
Step 3

- Unclip the glove box dampener (1).
- Remove LH and RH retaining clip (2) by rotating anti-clockwise.
- Remove the glove box (3).
- Remove the passenger's lower dash garnish (4).



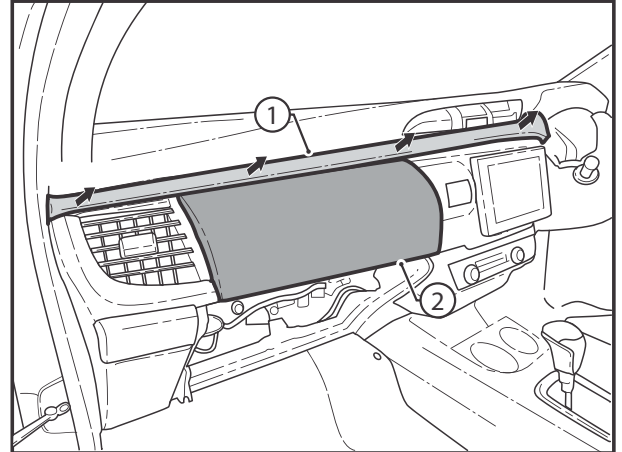
Step 4

- Remove cluster surround (1) by removing two screws (2).
- For vehicles fitted with leather trim.
- Dislodge the cluster surround (3).
- Unclip the dust cover if present.
- Remove the cluster surround (3).



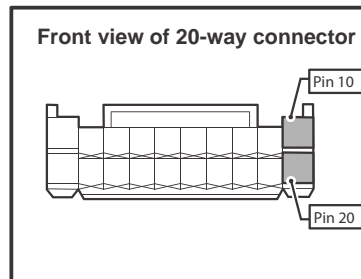
Step 5

- Remove instrument cluster trim first (it holds glove box trim in place).
- Dislodge upper glove box trim (1).
- Unclip the upper glove box (2) and remove.

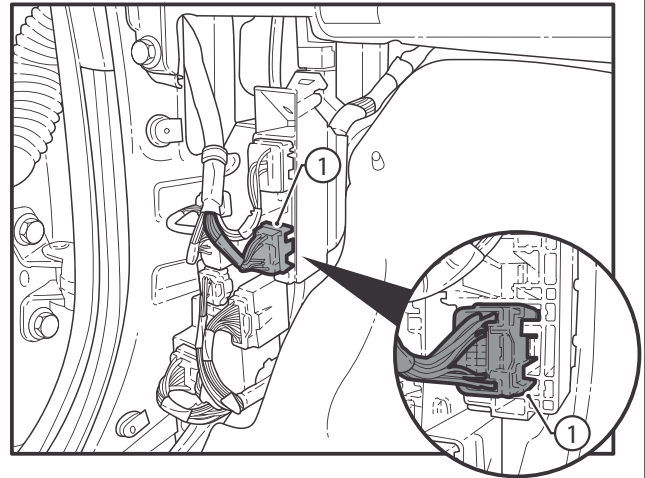


Step 6

- Locate the 20-way hybrid junction connector (1) in the passenger side kick panel area
- Disconnect the connector and identify the two Lock/Unlock terminal wires as shown:

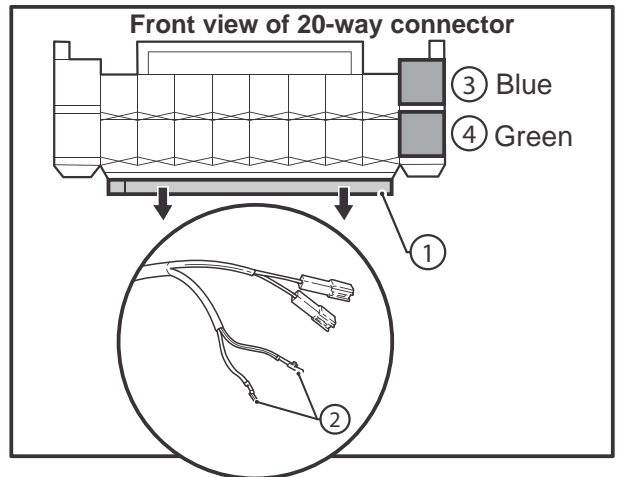


Connector Pin 10: Lock / Black Wire
Connector Pin 20: Unlock / White Wire



Step 7

- Using a precision screw driver, unclip the connector secondary lock (1)
- Carefully remove the two Lock/Unlock wires from the rear of the connector using a precision screw driver.
- House the BLUE and GREEN lamp Relay Harness terminals (2) into the rear of the connector cavities in the positions shown:
BLUE WIRE UPPER CAVITY (3) .
GREEN WIRE LOWER CAVITY (4) .
- Push the 20-way connector secondary lock (1) into place to retain terminals.



Important



Ensure an audible 'click' is heard.

Step 8

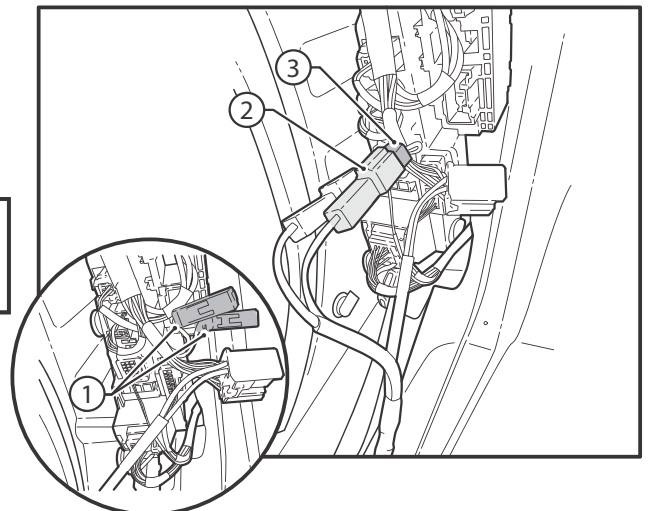
- House the previously removed vehicle lock terminals into the supplied 1-way connectors (1).
- Push the secondary lock into place to retain terminals.

Important



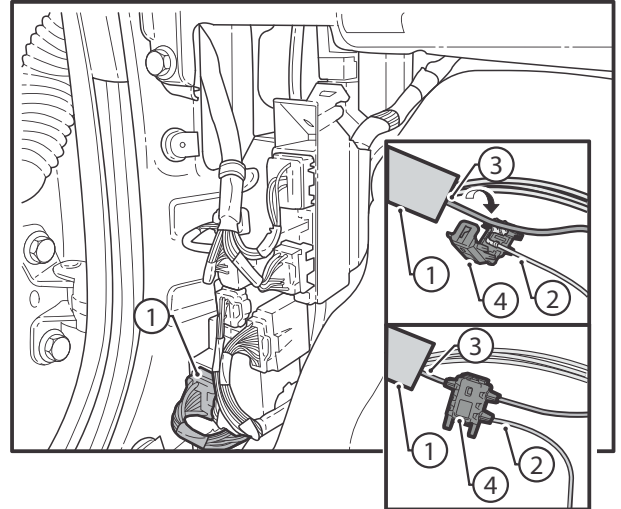
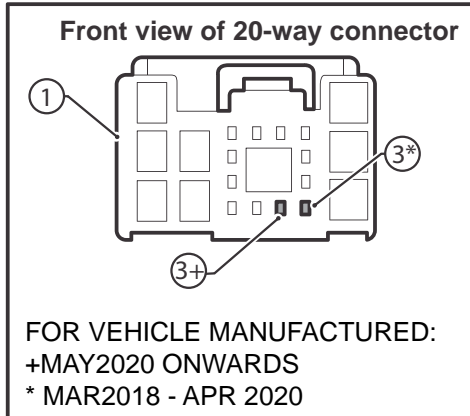
Ensure an audible 'click' is heard.

- Connect the Relay Harness BLUE/BLACK wire 1-way connector (2) to the vehicle BLACK 1-way connector (3)
- Connect the Relay Harness GREEN/BLACK wire 1-way connector to the vehicle WHITE 1-way connector.
- Reconnect the 20-way hybrid junction connector to the vehicle.



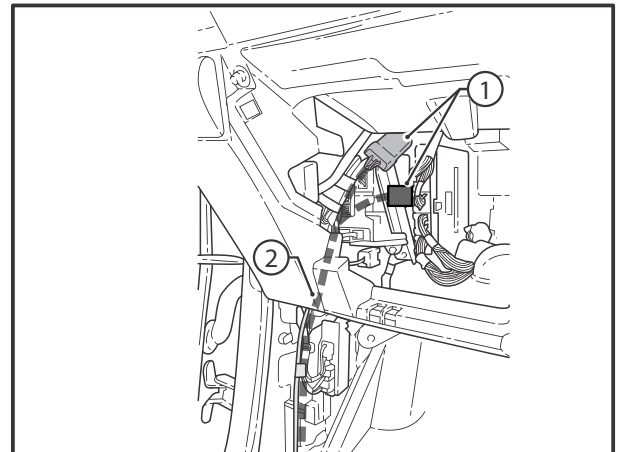
Step 9

- Disconnect the 20-way junction connector (1).
- Scotch lock the Relay Harness terminal (2) to the 20-way junction connector Pin19 (3*) or PIN20(3*) wire/terminal.
- House the scotch lock terminal (2) with the supplied scotch lock housing (4).
- Reconnect the 20-way junction connector (1).



Step 10

- Route the two Relay Harness bases (1) up the vehicle harness (2) towards the LH glove box cavity area.
- Secure the Relay Harness (1) to the vehicle harness (2) at every 150mm intervals with supplied Cable Ties.



Step 11

- In the upper glove box cavity area, if vehicle is equipped with an ECU (1) in the location shown, remove vehicle nut (2).

Important

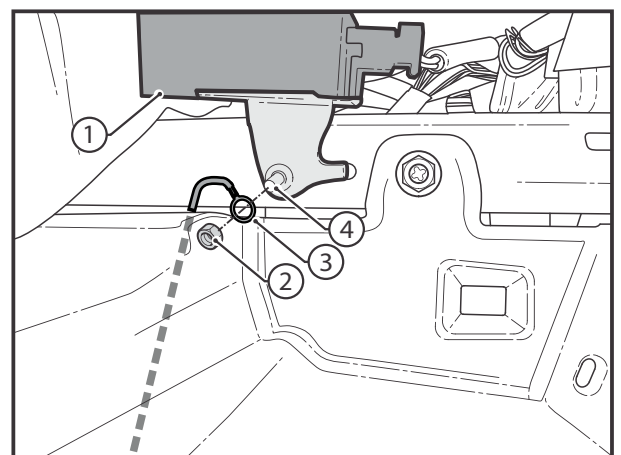
Torque earth bolts between 6.9 & 9.8 Nm.

- Route Relay Harness ground ring terminal (3) to the vehicle grounding point (4) located in the upper LH glove box cavity area on the I/P reinforcement bar.
- Fasten the ring terminal (3) using the existing nut (2) to the vehicle grounding point (4).

Note: If no ECU is present, use the supplied M6 Flange Nut to the grounding point (4).

Important

Ensure the earth wire and Relay Harness are free from sharp edges and pinch points.

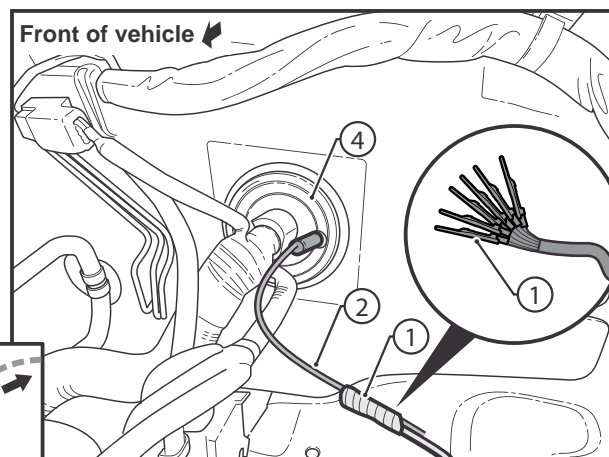
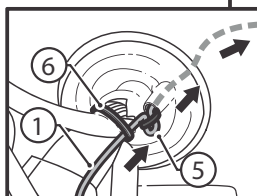
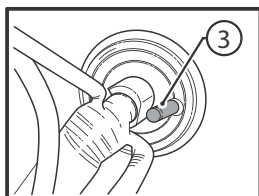
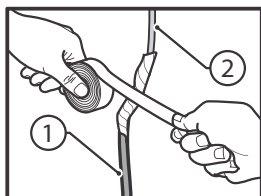


Step 12

- In the engine bay area, secure the Power Harness male terminals (1) to the guide wire (2).
- Cut the LHS 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.
- Feed through until the Power Harness loop (5) reaches the grommet and is facing down.
- Seal with silicon, then cable tie (6) around the access point.



Step 13

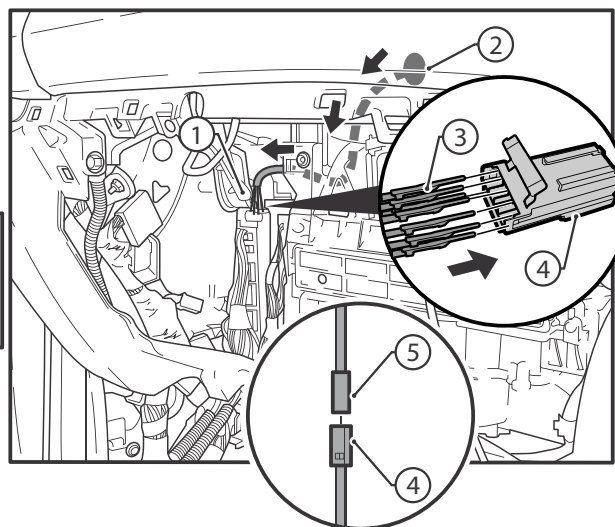
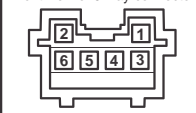
- In the glove box cavity area, retrieve the Power Harness (1) from the firewall grommet hole (2).
- House the five terminals (3) on the end of the Power Harness to the supplied connector (4), in the positions shown in Table 1 and then secure the secondary locks.
- Connect the housed Power Harness connector (4) to the Relay Harness 6-way connector (5).

Wiring Information

1	BLUE
2	GREEN
3	BLACK
4	GREY
5	RED
6	RED/BLACK

Table 1

Front view of 6-way connector



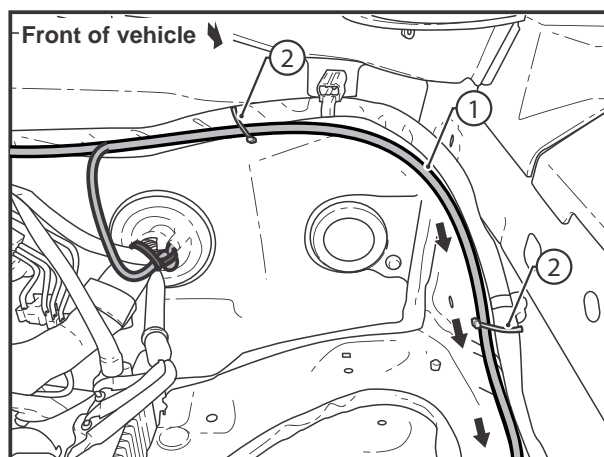
Important



Ensure the wire colours correspond between the Sensor Harness and Relay Harness when connected.

Step 14

- Route the previously retrieved Power Harness (1) from the firewall grommet hole towards the battery (or accessory fuse box if fitted), following the vehicle harness down the LHS of the engine bay.
- Secure the Power Harness (1) to the vehicle harness using Cable Ties (2) in the locations shown.

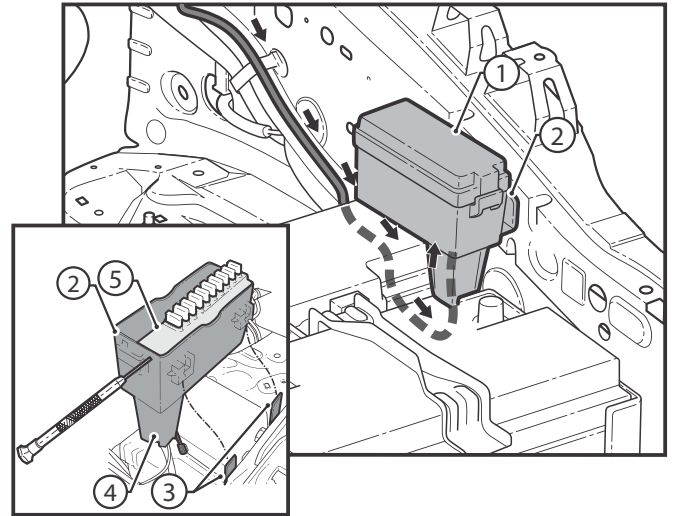


A-DECK CANOPY LAMP & LOCK HARNESS

Step 15

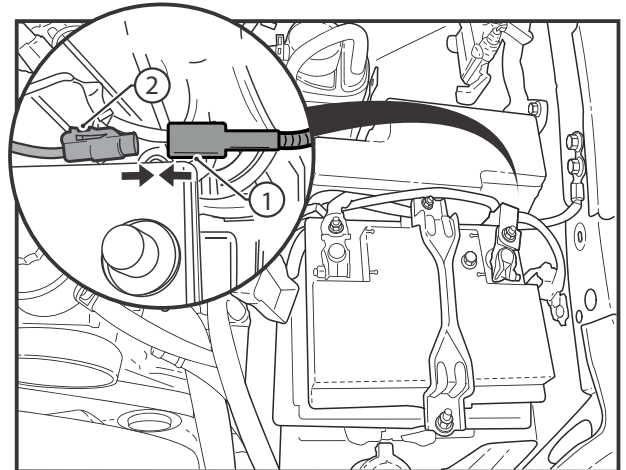
If vehicle is NOT fitted with accessory fuse block go to Step 18, otherwise, continue with Step 15:

- Remove the accessory fuse block cover (1) .
- Disconnect the accessory fuse block (2) from its mounting bracket (3) .
- Using side cutters, remove and discard the cable tie (4) from the wire bundle.
- Unclip and dislodge the fuse holder (5) .



Step 16

- Connect the Power Harness 1-way male connector (1) to the RED Extension Harness 1-way female connector (2) .
- Secure Power Harness to the vehicle harness in between the battery and the fuse box.



Step 17

- Feed the Extension Harness RED terminal wire (1) through the fuse block funnel.
- Insert the RED fuse terminal (2) into the cavity as shown.

Important



Ensure an audible 'click' is heard.

- Insert the supplied Mini Blade Fuse (3) into the wired slot and re-fit back into the accessory fuse box (4) .

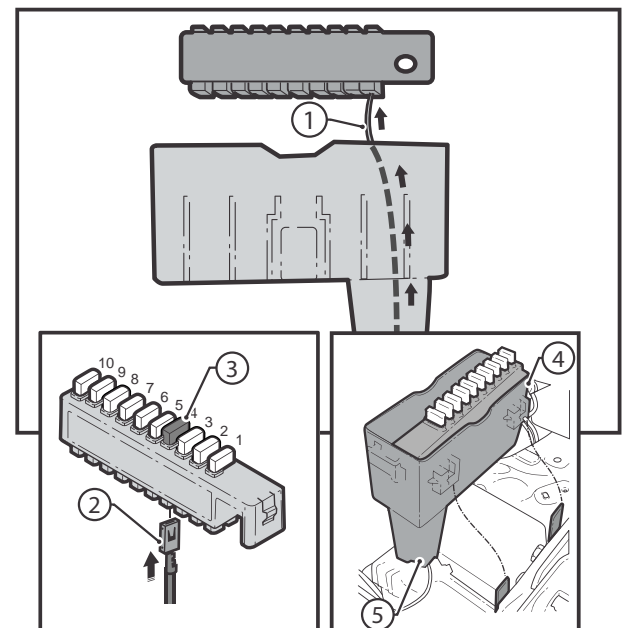
Important



Check fuse terminal retention.

- Secure harnesses with a Cable Tie (5) where shown.

Go to Step 19.

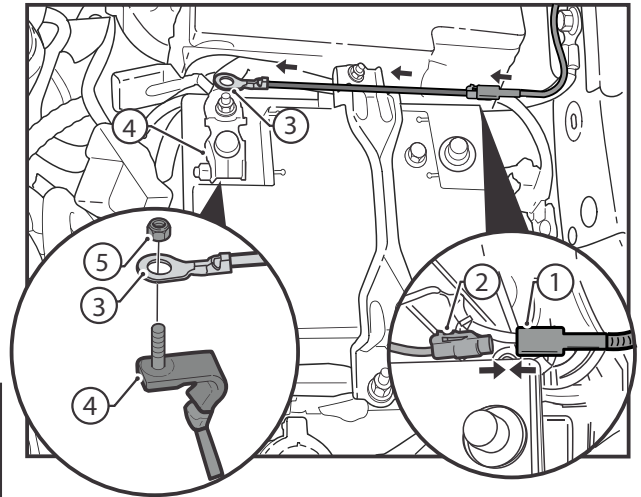


A-DECK CANOPY LAMP & LOCK HARNESS

Step 18

If vehicle is NOT fitted with accessory fuse block continue with Step 18.

- Connect the Power Harness 1-way male connector (1) to the fused Extension Harness 1-way female connector (2).
- Route the fused RED wire 8mm ring terminal (3) to the positive battery terminal (4).
- Secure the vehicle harness positive battery ring terminal (4) to the back section of the battery positive terminal using the existing nut (5).
- Secure Power Harness with supplied Cable Ties at every 200mm intervals.



Important



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

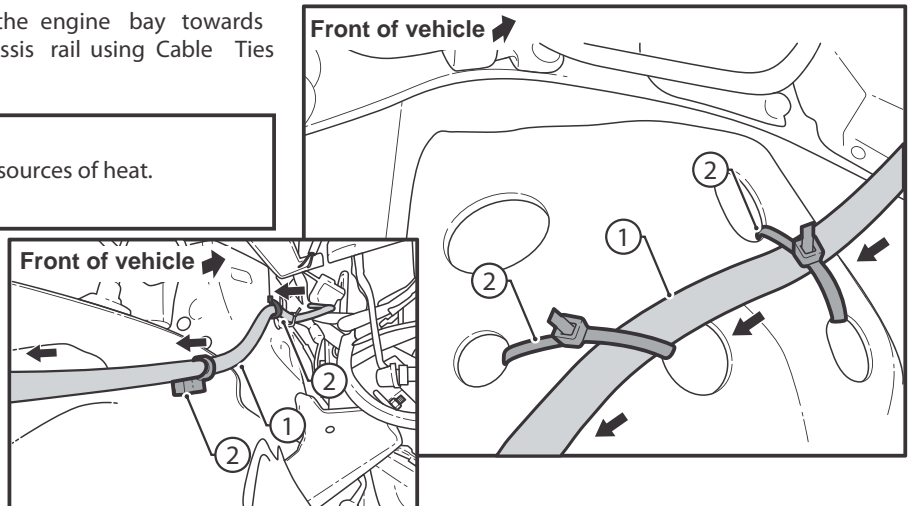
Step 19

- Route the Power Harness (1) down into the engine bay towards the LHS chassis rail and secure to the chassis rail using Cable Ties (2) at the locations shown.

Important



Avoid sharp edges, brake lines and sources of heat.



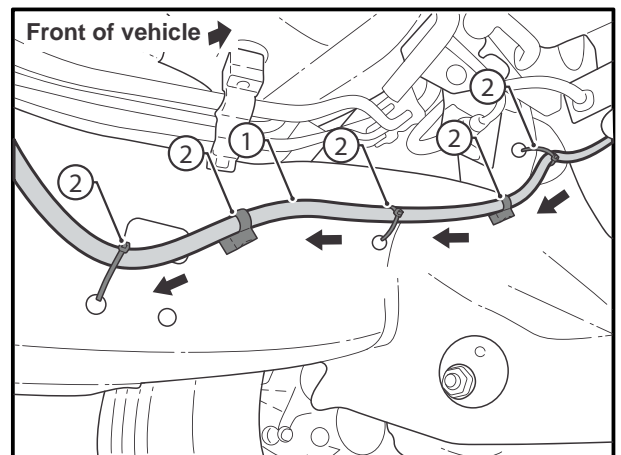
Step 20

- Continue routing along the chassis rail towards front tub panel.
- Secure the Power Harness (1) to the chassis using Cable Ties (2) in the locations shown.

Important



Avoid sharp edges, brake lines and sources of heat.



A-DECK CANOPY LAMP & LOCK HARNESS

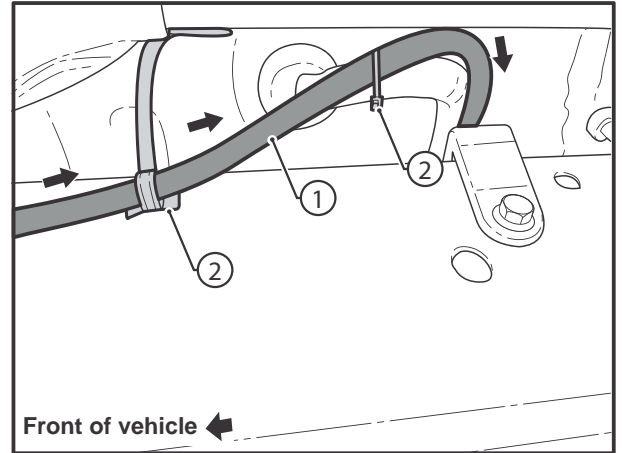
Step 21

- From underneath the vehicle, route the Power Harness power wire (1) towards the front tub panel, following the inside of the LHS chassis rail.
- Secure the Power Harness (1) to the chassis using Cable Ties (2) in the locations shown.

Important



Avoid sharp edges, brake lines and sources of heat.



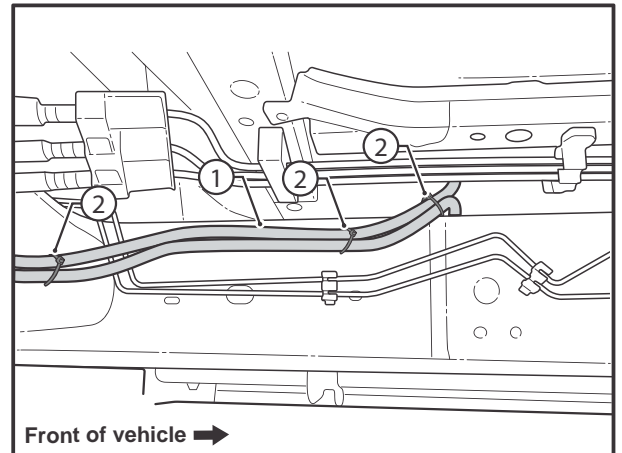
Step 22

- Following the LHS chassis frame, route the remaining Power Harness branches (1) towards the LHS front of the tub.
- Secure the Power Harness to the chassis using supplied Cable Ties (2) to the locations shown.

Important



Avoid sharp edges, brake lines and sources of heat.



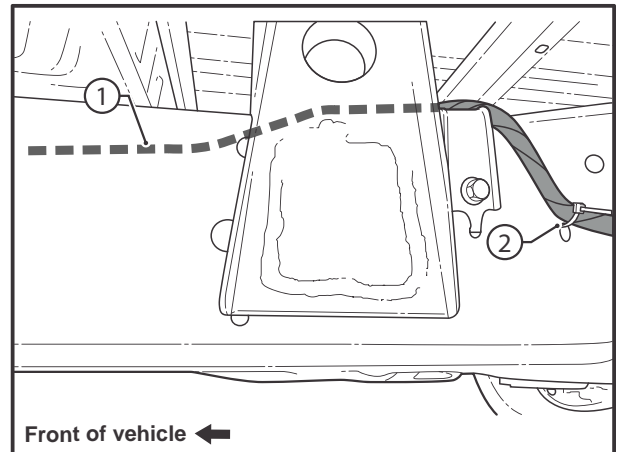
Step 23

- Continue routing along the chassis rail towards the LHS front tub panel.
- Secure the Power Harness (1) to the chassis using supplied Cable Ties (2) to the location shown.

Important

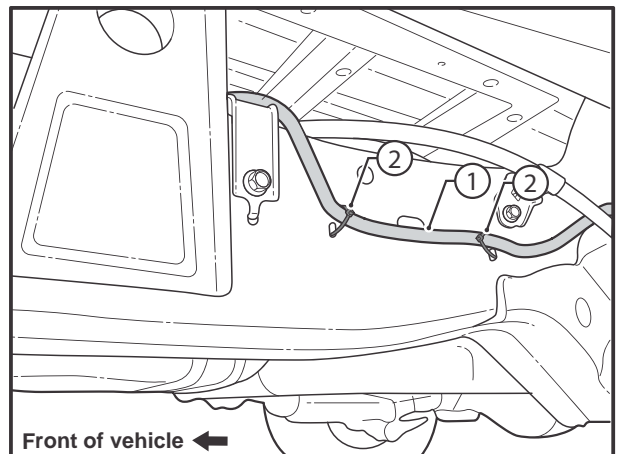


Avoid sharp edges, brake lines and sources of heat.



Step 24

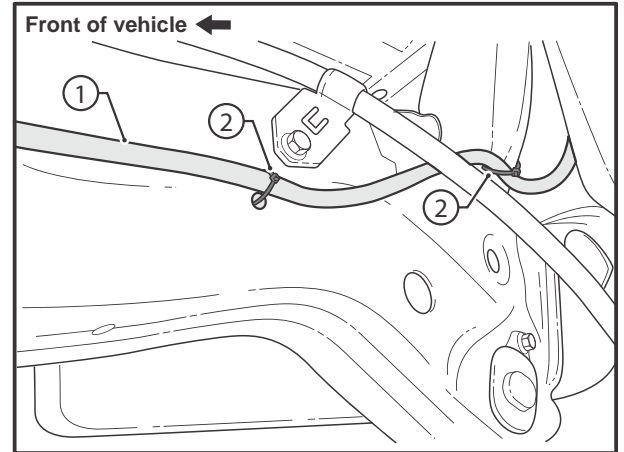
- Continue routing along the chassis rail towards the LH front tub panel.
- Secure the Power Harness (1) to the chassis using supplied Cable Ties (2) to the locations shown.



A-DECK CANOPY LAMP & LOCK HARNESS

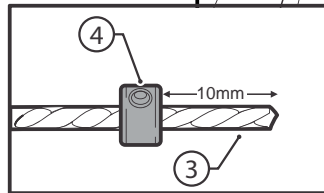
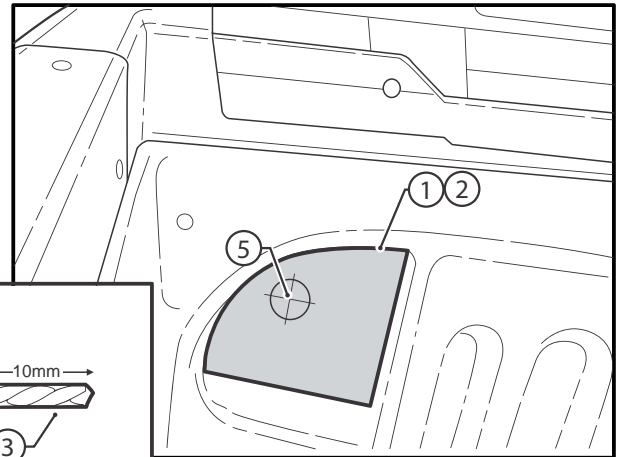
Step 25

- Continue routing along the chassis rail towards the LH front tub panel.
- Secure the Power Harness (1) to the chassis using supplied Cable Ties (2) to the locations shown.



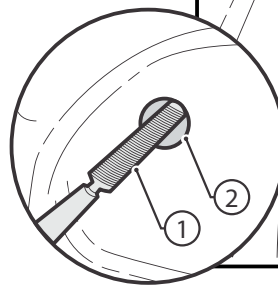
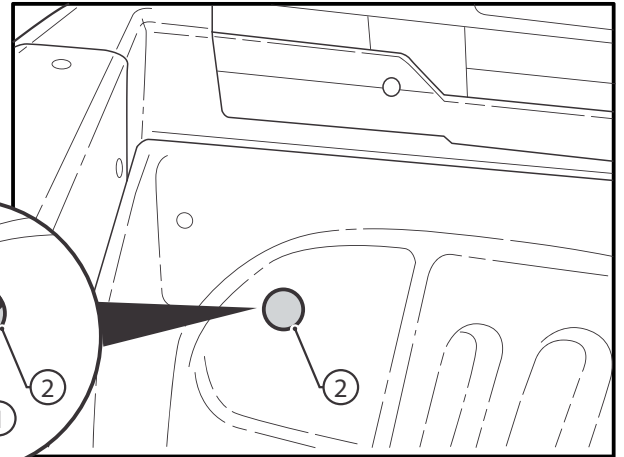
Step 26

- Cut out and adhere the supplied Template (located on Page 26) (1) to the LHS front inner tub panel area (2) using tape.
- Mark Ø3mm on the drill (3) using a drill stop (4) to a depth of 10mm
- Drill a pilot hole through the template crosshair centre (5).
- Remove and discard the template (1)
- Using a stepped drill bit, drill out the previously drilled pilot hole to Ø30mm.



Step 27

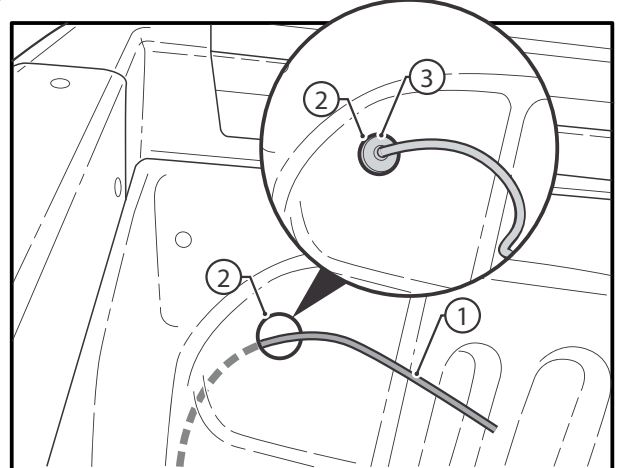
- Using a file (1) de-burr the hole and remove any rough or sharp edges.
- Apply rust inhibitive compound around the edges of the hole.



Step 28

- Feed a guide wire (1) through the Ø30mm hole (2)
- From underneath the LHS front of the tub, retrieve the guide wire and secure it to the Power Harness connectors.
- Pull the Power Harness (1) through the hole (2) and into the tub.
- Ensure a good seal has been achieved between the Ø30mm grommet (3) and Ø30mm tub panel hole.

Note: Ensure the larger grommet (Ø30mm) is used.



Step 29

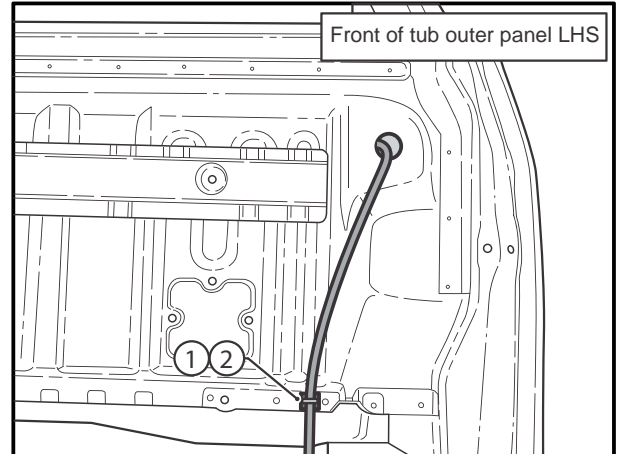
- From underneath the LHS front tub area, clean the front tub panel (1) with the supplied Cleaning Pad.

Important



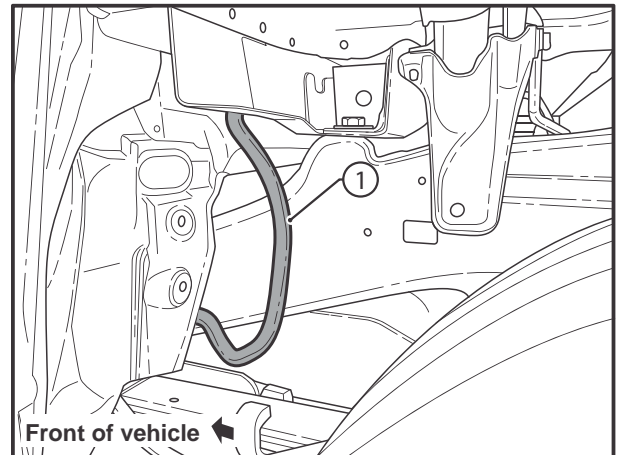
Allow the areas cleaned with the supplied Cleaning Pad to dry before continuing.

- Secure the Power Harness to the front tub panel using the supplied Cable Tie Mount and Cable Tie (2).



Step 30

- Underneath the vehicle, locate the Power Harness (1).



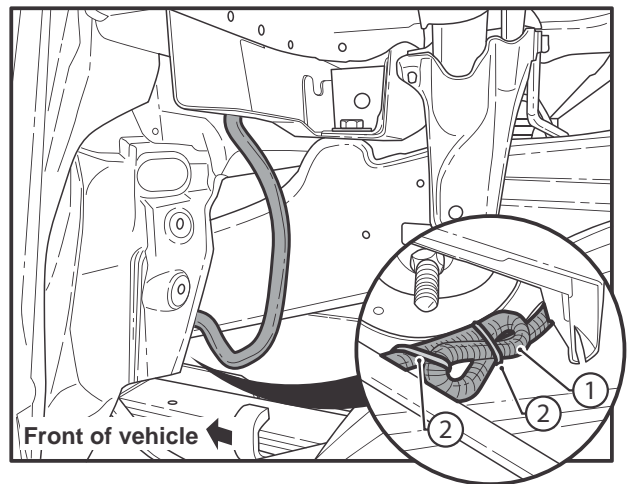
Step 31

- Secure excess Power Harness (1) away from the rear RH wheel arch area using the supplied Cable Ties (2).

Important



Ensure the Power Harness (1) is kept clear of all sharp edges or moving parts.



Step 32

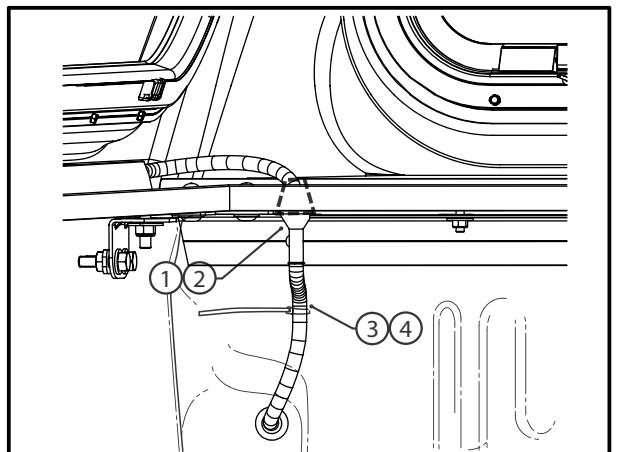
- Continue routing the Power Harness through the existing front canopy rail Ø25mm hole (1) until the Ø25mm canopy harness grommet (2) makes a good seal with the front canopy rail hole.
- Using the supplied Cleaning Pad, clean the front canopy panel in the area shown (3).

Important



Allow the areas cleaned with the supplied Cleaning Pad to dry before continuing.

- Secure the Power Harness to the tub using a supplied Cable Tie Mount and Cable Tie (4).



Step 33

- Route across the top of the canopy rail (1) around the LH side of the canopy.
- Using a supplied Cleaning Pad, clean the outer side of the LHS rail in the front tub area shown (2).

Important



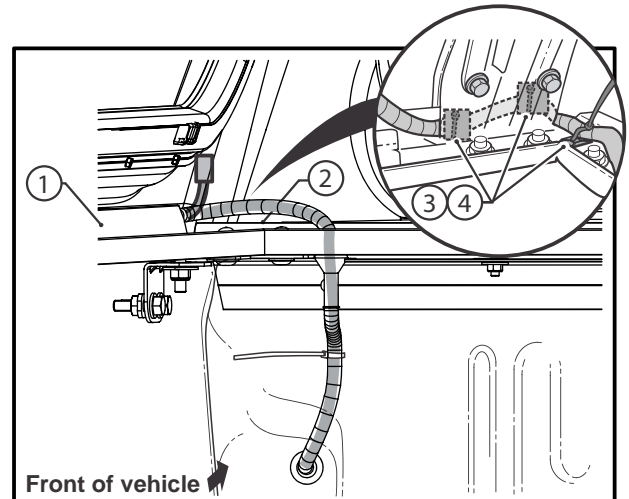
Allow the areas cleaned with the supplied Cleaning Pad to dry before continuing.

- Secure the Power Harness to the front LHS rail and bracket using supplied Cable Ties (3) and Cable Tie Mounts (4) in the locations shown.

Important

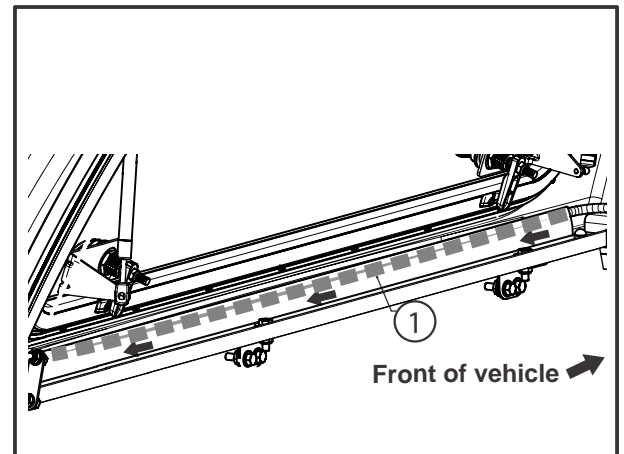


Check that the Power Harness is not rubbing against sharp edges or fasteners.



Step 34

- Route the Power Harness (1) along the lower LH side base rail channel, towards the rear of the canopy.
- Press the Power Harness (1) into the base rail channel and ensure the corrugated tubing is clipped in firmly.



Step 35

- Route the Power Harness across the rear LH side canopy corner rail and the outer surface of the canopy bracket as shown.
- Using a supplied Cleaning Pad, clean the top of the rail in the LH side rear canopy area (1).

Important



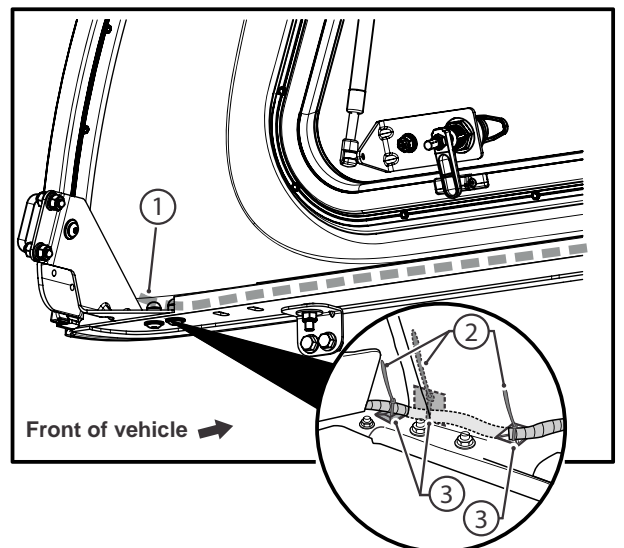
Allow the areas cleaned with the supplied Cleaning Pad to dry before continuing.

- Secure the Power Harness to the LH side rear canopy bracket and rail using supplied Cable Ties (2) and Cable Tie Mounts (3).

Important

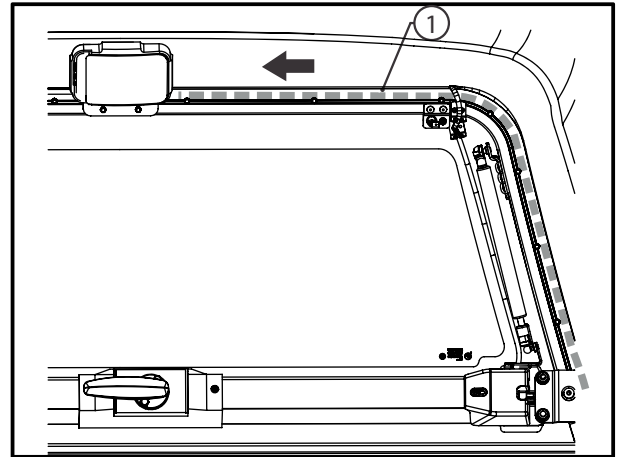


Check that the Canopy Harness is not rubbing against sharp edges or fasteners.



Step 36


- Route the Power Harness (1) up the LH side of the rear canopy window frame channel as shown.
- Continue routing the Power Harness (1) across the top of the rear canopy window frame channel towards the RH side.



Step 37

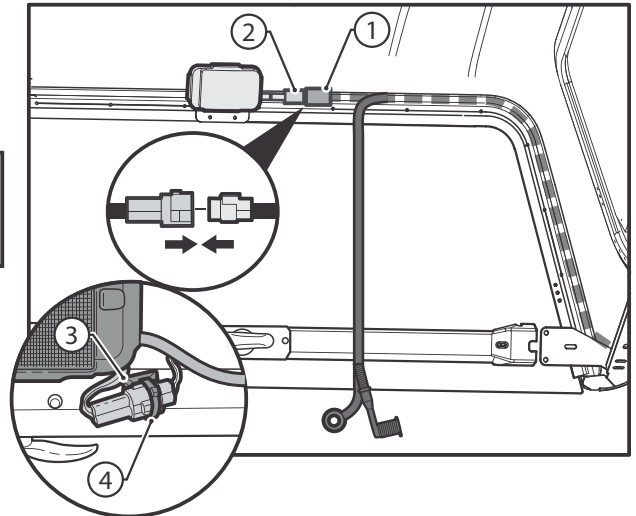
- Connect the canopy lamp connector (1) to the canopy harness connector (2).
- Cable tie back any excess harness length.

Important



Ensure the Canopy Harness is free from sharp edges and pinch points.


- Secure the connectors to the canopy window frame using the supplied Cable Tie Mount (3) and Cable Tie (4).



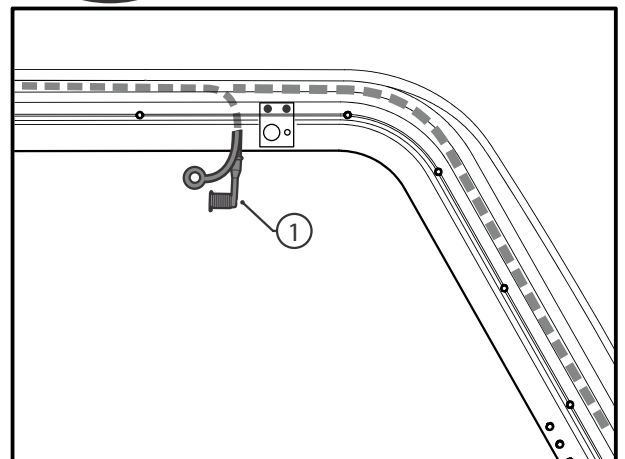
Step 38

- Route the ring terminal (1) and pin switch grommet (2) branches across the rear upper window frame channel towards the rear pin switch bracket.

Important



Check that the Canopy Harness is clear of sharp edges and pinch points.



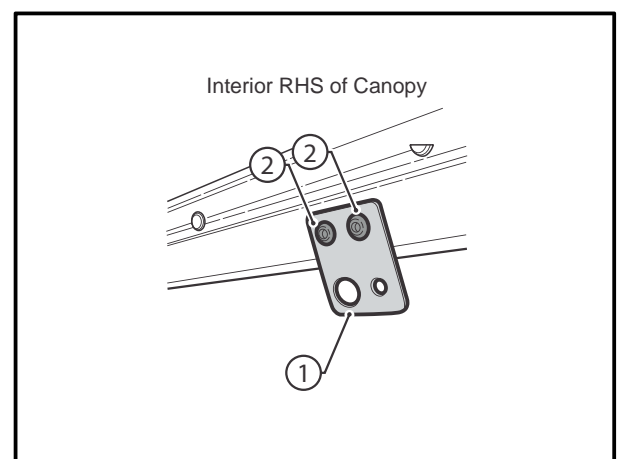
Step 39

- Position the pin switch bracket (1) to pre-drilled holes. Fasten the bracket with two 5 mm rivets (2).

Note J-Deck bracket variant shown.

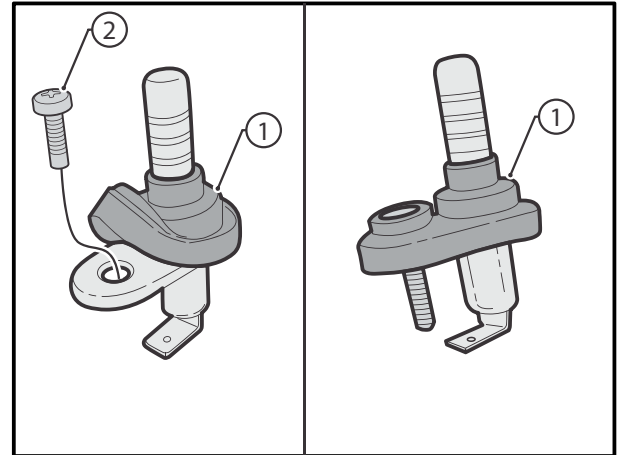
For J-Deck the pin switch bracket is to be mounted with the larger hole on the RHS when looking from inside the canopy.

Note: For A-Deck the pin switch bracket is to be mounted with the step facing toward the outside of the canopy.



Step 40

- Lift the rubber cover (1) of the pin switch and place Phillip countersunk screw (2). Close the rubber cover (1).



Step 41

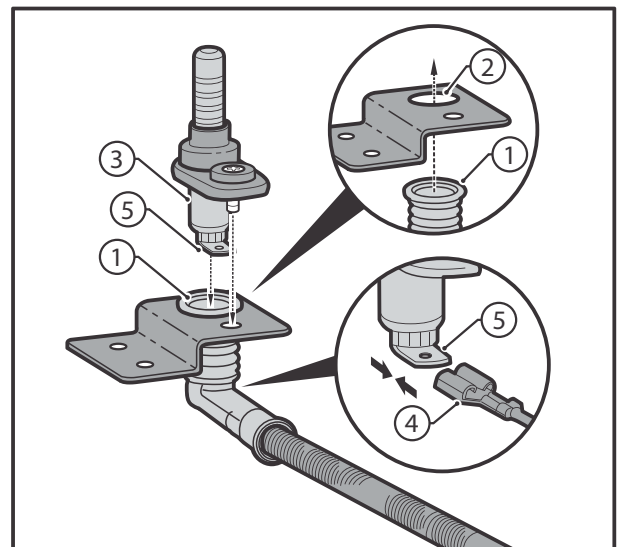
- Insert the Canopy Harness right-angled grommet end (1) into pin switch bracket hole (2).
- Slide the pin switch (3) into the Canopy Harness right-angled grommet opening (1) from the top.
- Inside the Canopy Harness right-angled grommet, connect the female harness terminal (4) to the male pin switch terminal (5).

Note: A-Deck bracket variant shown.

Note: Window frame not shown for illustrative purposes.



Check that the pin switch contacts the glass when the door is closed. If not, then add the spacer provided between the bracket and the pin switch.

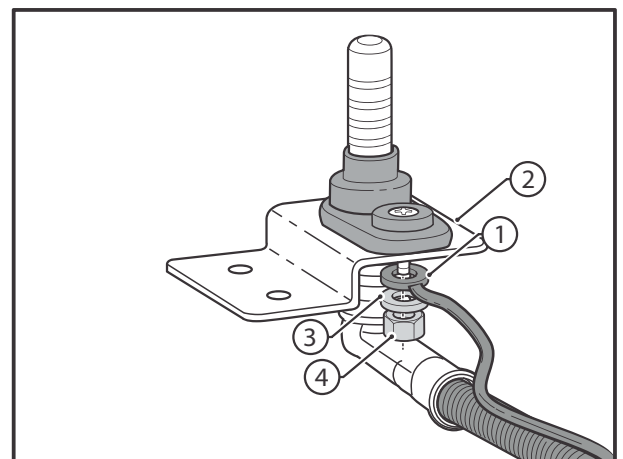


Step 42

- Secure the Canopy Harness ring terminal (1) onto the face of the pin switch bracket (2) using the supplied M4 flat washer (3) and M4 nyloc nut (4).

Note: A-Deck bracket variant shown.

Note: Window frame not shown for illustrative purposes.



Step 43

- Lower face of the pin switch grommet (1) should be contacting the pin switch bracket (2).
- Tighten the bolt and nut.

Note: A-Deck bracket variant shown.

Note: Window frame not shown for illustrative purposes.

Important

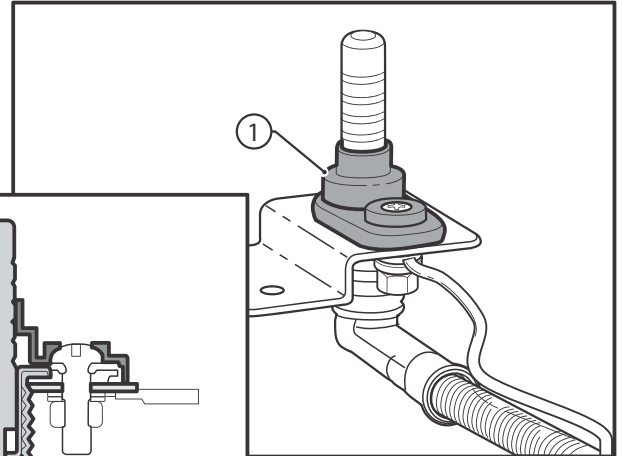
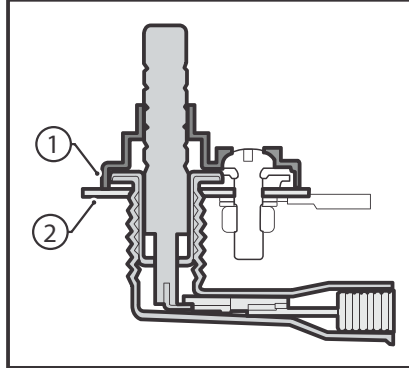


Push the pin switch in and out to ensure there are no snags.

Important

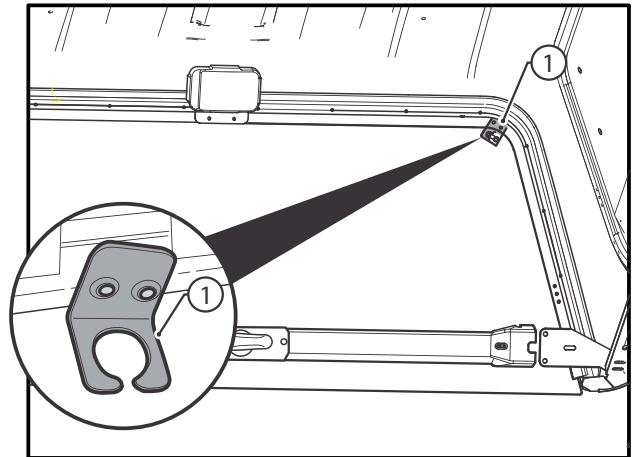


Torque M4 nyloc nut (4) to 3Nm.



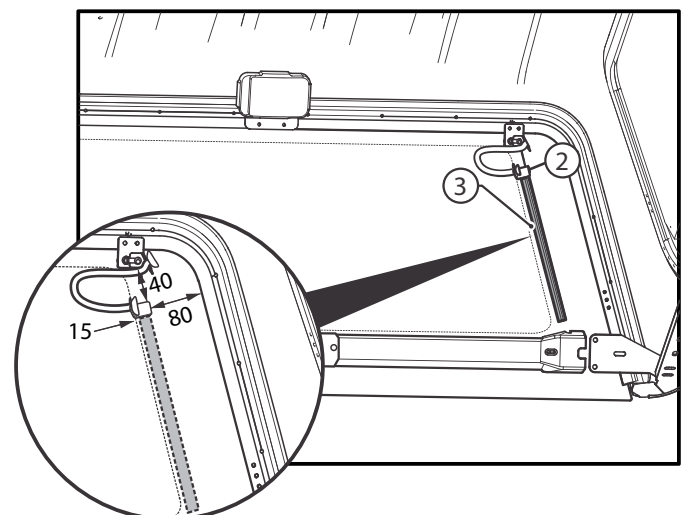
Step 44

- Drill and rivet grommet bracket (1) to the window frame.



Step 45

- On the LHS inside the rear window glass, clean the area where rubber tube (3) and wiring clip (2) will be attached, with an alcohol wipe and prime with primer stick. Allow to dry.
- Place the wiring clip (2) approximately 15mm from the edge of the blackout on the glass, 40mm from the top edge of the glass and 80mm from the side.
- Peel the liner and press to the glass.



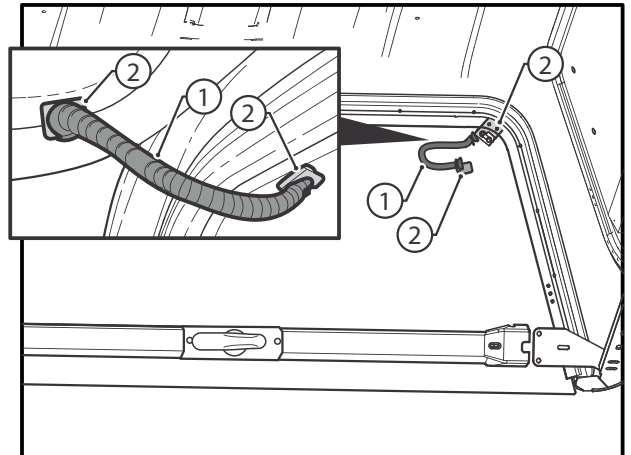
Step 46

- Install the rubber grommet (1) to the brackets (2) .

Important



Ensure harness grommet makes a good seal with bracket hole. Ensure harness grommet folds away from the hinge.



Step 47

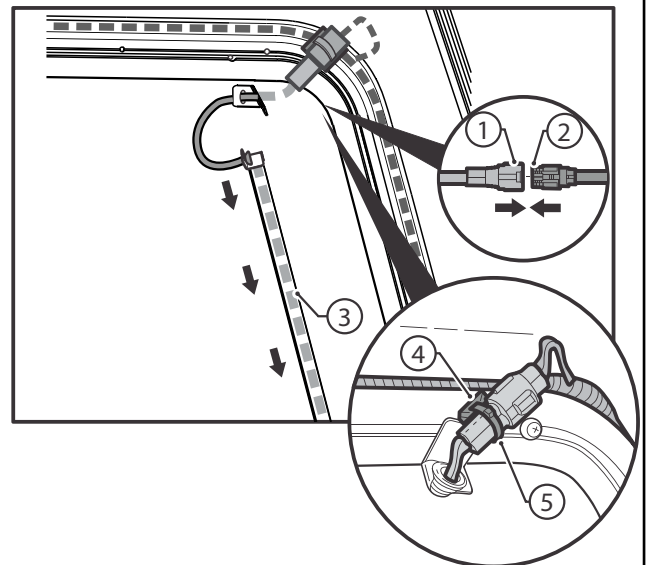
- Connect the Rear Lock Harness connector (1) to the main canopy harness connector (2) .

Important



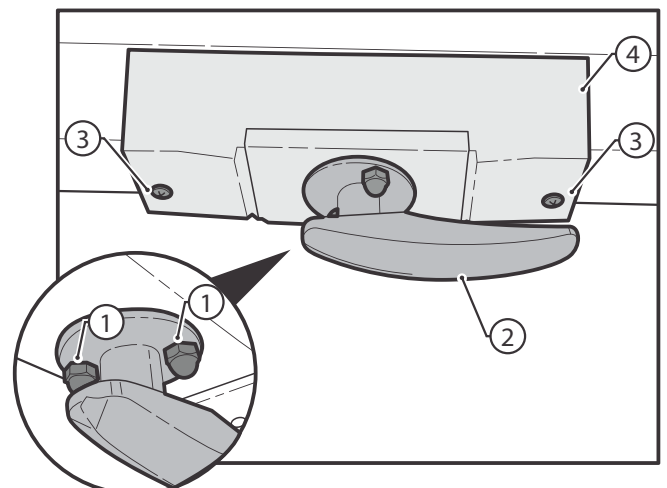
Ensure the harness and grommet are not twisted.

- Secure the connectors to the canopy window frame using the supplied Cable Tie Mount (4) and Cable Tie (5) .



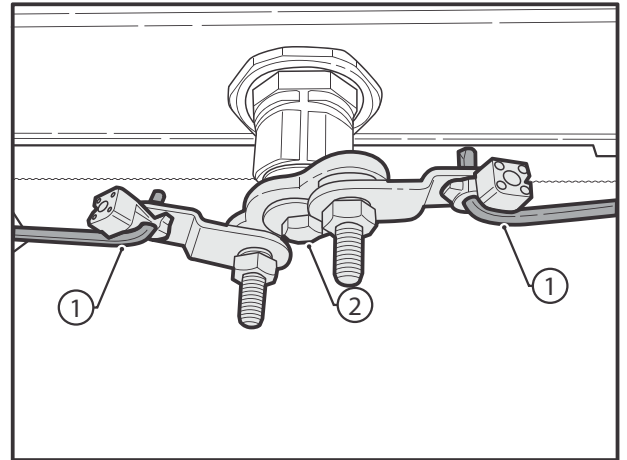
Step 48

- Remove two dome head screws (1) with 10mm spanner. Take the internal handle off (2) .
- Remove the two Phillip head screws (3) . Take the lock cover handle off (4) .



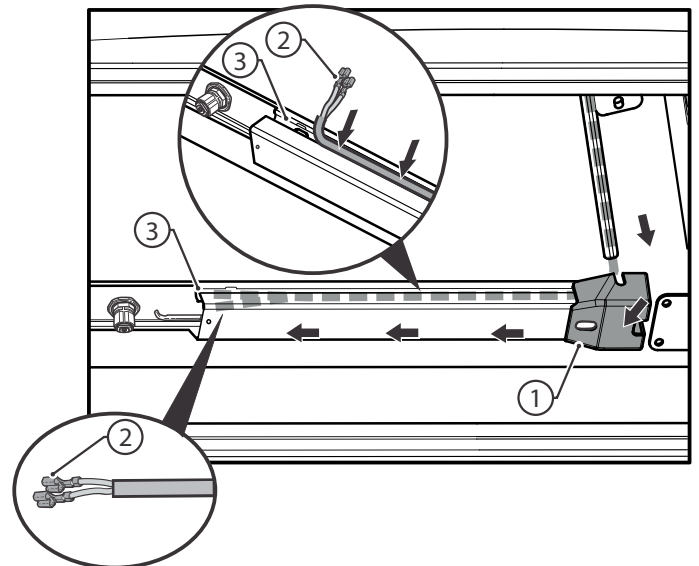
Step 49

- Remove M5 Hex bolt with 8mm socket.
- Unclip both pull rods (1) and take the lock cam off (2) .



Step 50

- Unscrew and remove the cover cap (1) with Phillips head screw driver. Route the Rear Lock Harness spade terminals branch (2) through the slot in the cover cap (1) .
- Route the Rear Lock Harness spade terminals (2) through the lock tunnel (2) towards the rear window lock ensuring to clip the harness into the lock tunnel (2) after routing.
- Refit the cover cap (1) after routing.



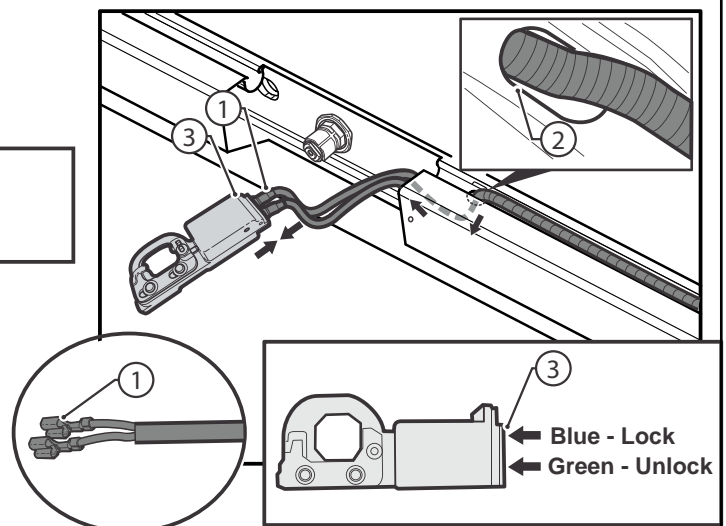
Step 51

- Route the Rear Lock Harness spade terminals (1) through the slot in the rear lock tunnel (2) .
- Connect the harness terminals (1) to the Rear Lock Harness terminals (3) following the wiring guide below:

Important



Ensure wire colour/terminals are connected to the correct lock terminal



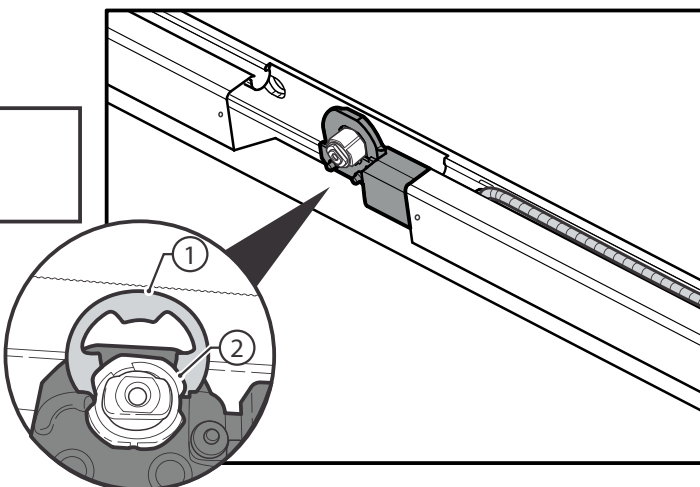
Step 52

- Install solenoid actuator to the lock handle shaft. Secure with the circlip (1) with the convex side facing out.

Important



Ensure the solenoid actuator pin aligns with hole on lock handle shaft (2).



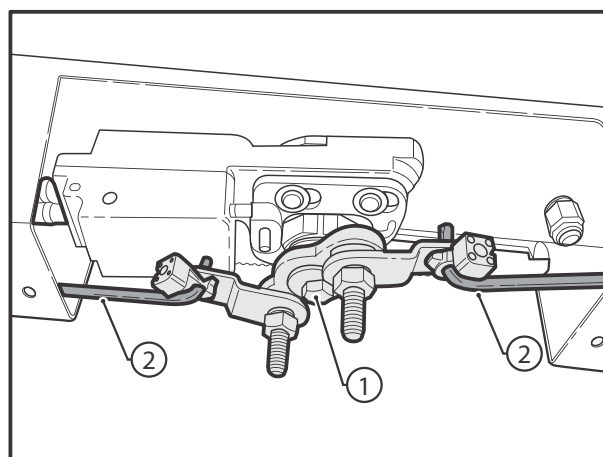
Step 53

- Assemble the lock cam back (1) and clip on the pull rods (2).

Important



Torque cam plate screw (1) to 5Nm



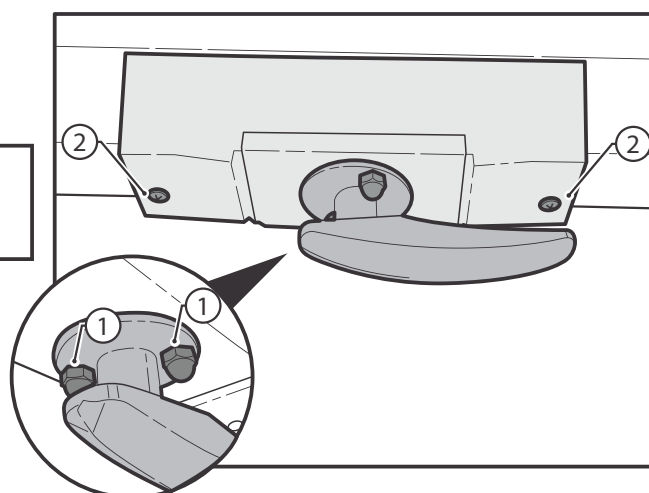
Step 54

- Install the internal handle using the dome head screws (1).
- Install the cover using the screws (2).

Important

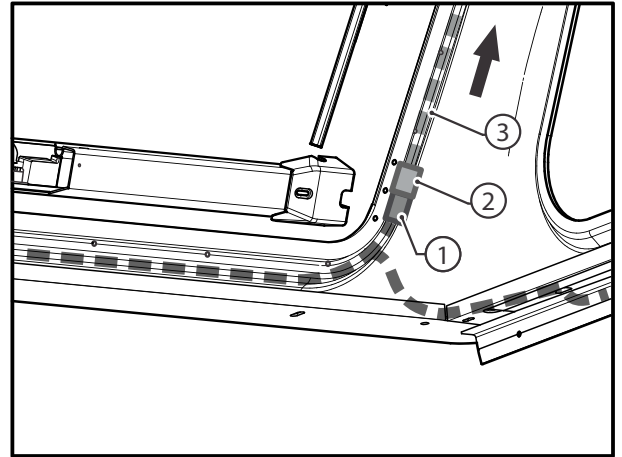


Torque dome head screws (1) to 4Nm.
Torque cover screws (2) to 3Nm.



Step 55

- On the front LH side window area, connect the 4-way female canopy harness connector (1) to the male canopy harness LH Lock Harness connector (2) .
- Route the LH Lock Harness (3) pin switch grommet and ring terminal up the front window frame channel and across the top of the frame towards the rear of the window frame.
- Secure the 4-way connectors (2) and to the window frame using the supplied Cable Tie Mount and Cable Tie.



Step 56

- Reconnect the negative battery terminal.

Important

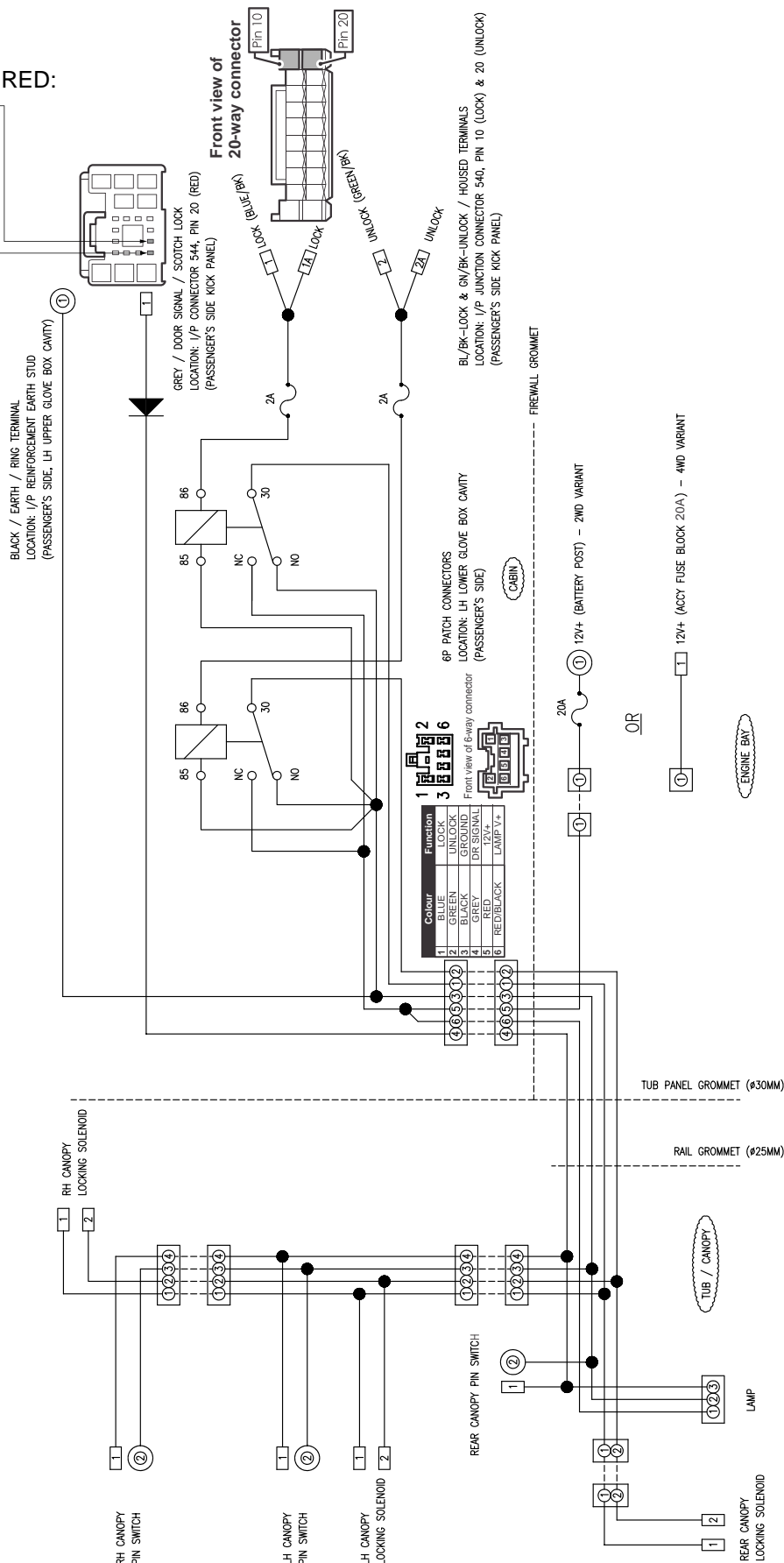


Battery Post terminal to be torqued in between 2.9 and 7.8Nm.

- Check the operation of the Canopy door ajar feedback system:
 - Ensure car is unlocked.
 - Open the rear canopy window.
 - Check the door ajar indicator on the instrument cluster is "on".
 - Close all canopy windows.
 - Check the door ajar indicator on the instrument cluster is "off".
- Check the operation of the Locking system:
 - Lock the car and check that all canopy windows fitted with window locking feature are locked.
 - Unlock the car and check that all canopy windows fitted with window locking feature are unlocked.

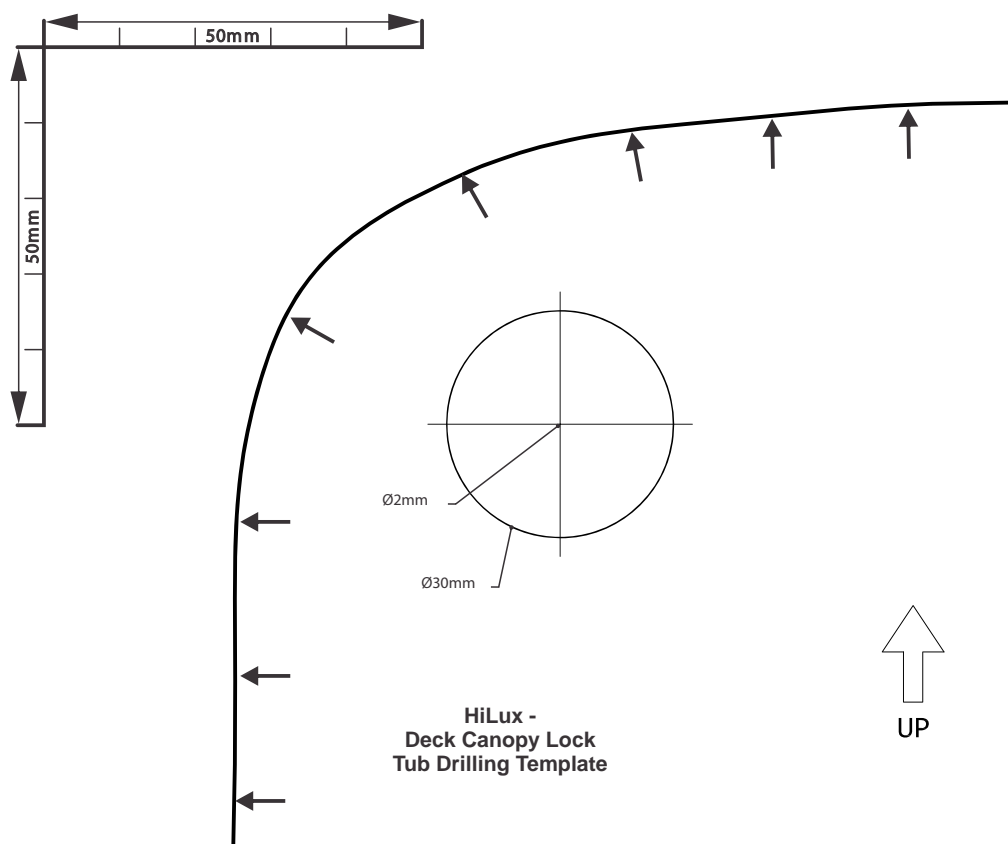
Harness Circuit Diagram

FOR VEHICLE MANUFACTURED:
+MAY2020 ONWARDS
* MAR2018 - APR 2020



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Drilling Template



Important



Always confirm the length of the 50mm scale markers before cutting out template.

