

TRAY CANOPY KIT

PN.:92279202

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TOOLS REQUIRED:- Phillips head screwdriver, 10mm, 13mm socket, ratchet, extension bar, drill, 5mm drill bit, 8mm drill bit, impact driver, T25 torx bit.

IMPORTANT: *If the vehicle is fitted with a tub liner, sufficient material must be removed from areas where the Canopy fixing brackets contact to bolt to the vehicle sheet metal.*

NOTE: Torque all M6 bolts to 7N.m and torque all M8 bolts to 17N.m.

1. Use an impact driver to remove the torx bit bolts from the rear of the vehicle tray sides and to remove the 6 bolts holding the vehicle header bar. Remove the bolts retaining the header bar across front top edge of the tray. Refer to figure 1.

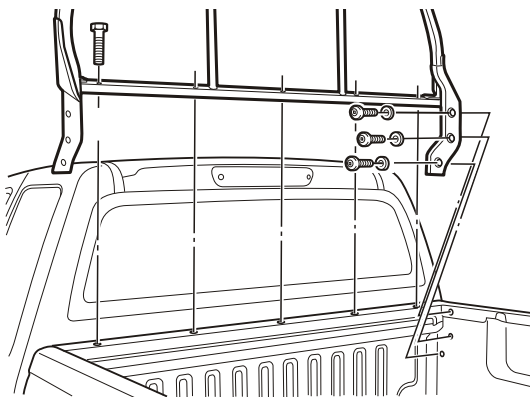


Figure 1

2. Position the blackout decals (1) to each side of the tub over the area where the header bar was attached. Ensure the area is clean and dry before fitting.
3. Refit the 4 torx bit bolts (2) that retain the 2 tie down points (3) once the header bar has been removed. Refer to figure 2.

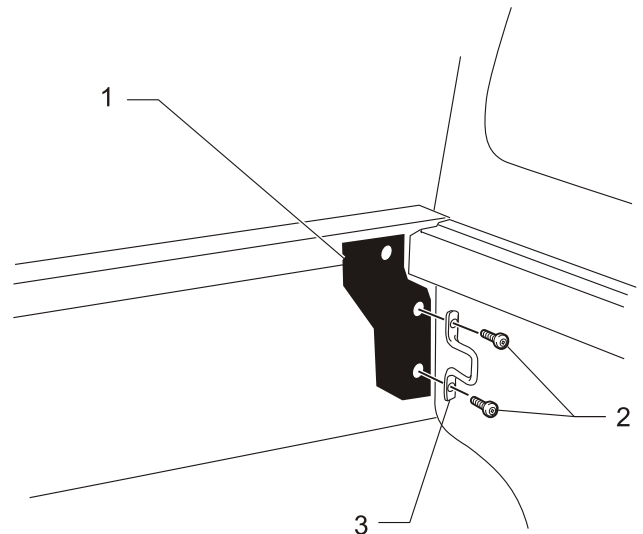


Figure 2

4. Remove the high level stop lamp and disconnect the lamp connector. Reinstall the high mounted stop lamp assembly using the existing screws. Tighten to 2.5N.m of torque. Refer to figure 3.
5. Wash and clean around the top of the tray and the top edge of the tailgate.

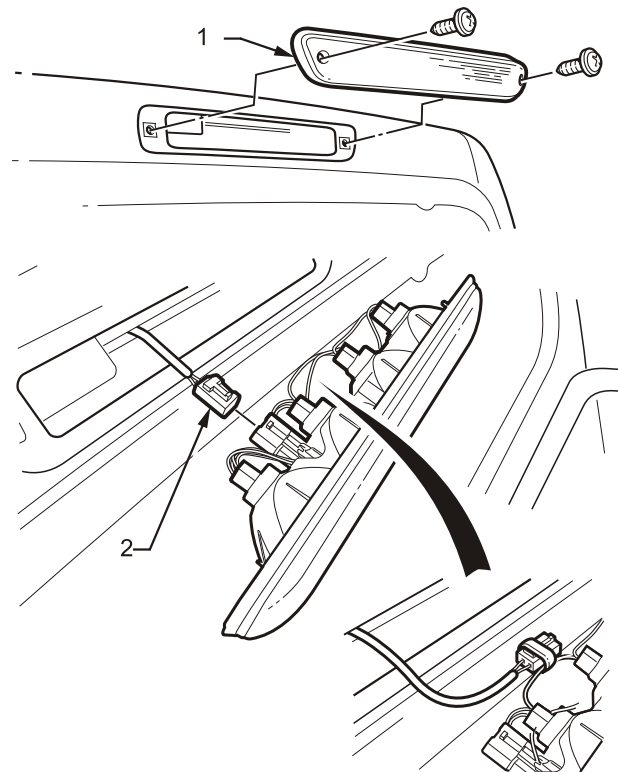


Figure 3

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6. Apply a bead of non-acidic silicone along the top joint between the front and the sides of the tray. Continue to run the silicone down the joints until the edge of the tray has been filled. Refer to figure 4.

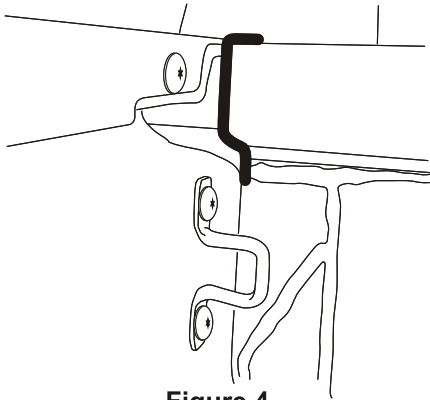


Figure 4

7. Use a cleaning pad to clean the top surface of the front of the tray.
8. Remove the protective tape from the adhesive strip on the underside of the canopy front rail and carefully fit the canopy front rail onto the top surface of the tray. Press down firmly for 20 seconds to ensure permanent adhesion. Refer to figure 5.

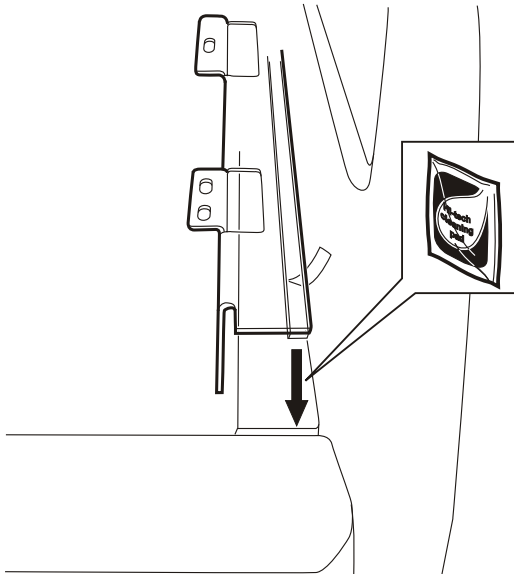


Figure 5

9. Use a cleaning pad to clean the top surface of the canopy front rail.
10. Drill 4, 5mm holes in the tub sheet metal to fit the rivets supplied (2 each end of the canopy front rail). Apply G16 anti-corrosion grease to the hole before installing the rivets. Refer to figure 6.

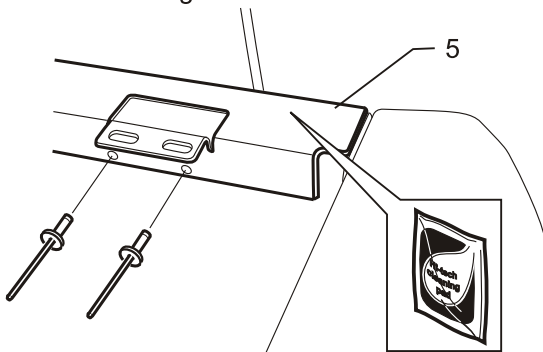


Figure 6

11. Use a cleaning pad and wipe the top surface of the rear tray corners.
12. Position the anti-abrasive tape on the corner of the tray with the inner radius aligned with the inner radius of the tray corner and apply the tape.
13. Use a cleaning pad to wipe the surface of the anti-abrasive tape. Refer to figure 7.

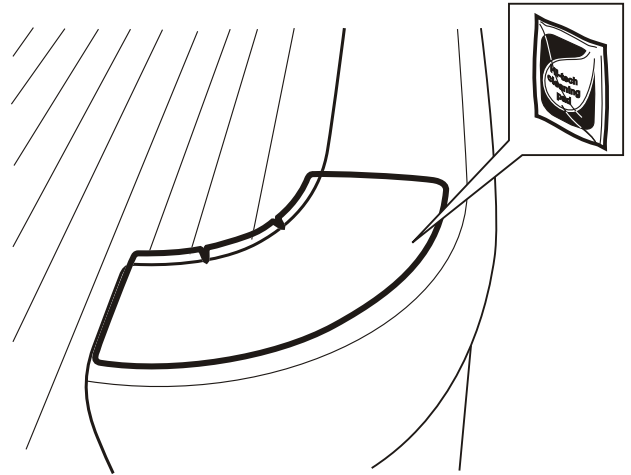


Figure 7

14. Apply adhesive primer 5mm in from the inside edge of the top surface of the tray and 5mm in from the front edge of the canopy front rail.
15. Apply the adhesive foam tape 5mm in from the inside edge of the top surface of the tray and 5mm in from the front edge of the canopy front rail. When applying the foam tape, start the tape 5mm before the start of the tray side and with 5mm over the tray edge at the other side of the opening. Do not stretch the tape when applying. Push the tape down firmly for 10 seconds to ensure permanent adhesion. Refer to figure 8.

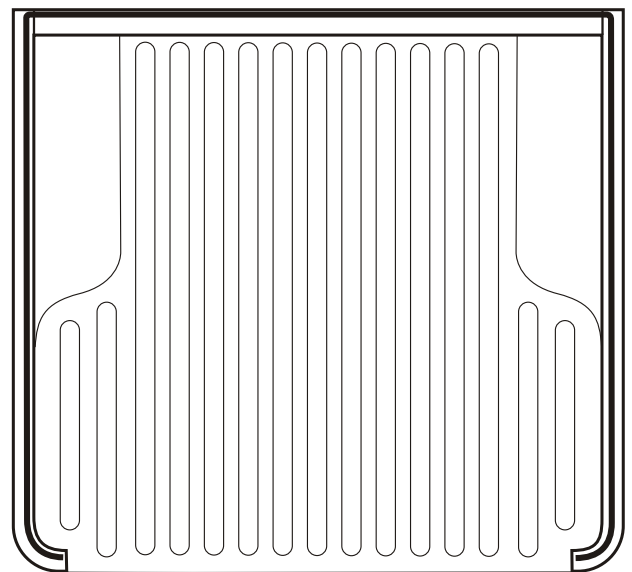


Figure 8

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16. Inject additional silicone under the foam tape at the front join between the tray sides and the tray front to ensure there is not a gap under the foam tape. Refer to figure 9.

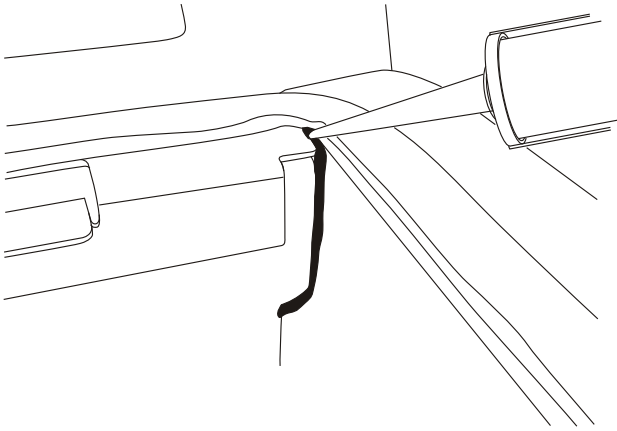


Figure 9

17. Use 4 M8x25 bolts and flat washers to attach the rear canopy fixing brackets to the existing threaded holes at the rear of the tray. Refer to figure 10.

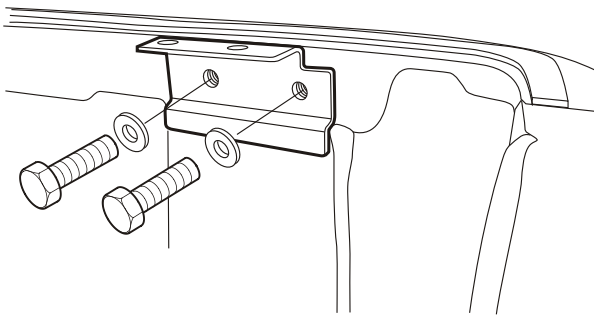


Figure 10

18. With the aid of additional people, lower the canopy onto the vehicle tray.
19. Loosely fit the M8x25 fixing bolts, spring washers and flat washers in the rear canopy mounting brackets. Check that the canopy is square on the vehicle and the fixing holes are aligned. Use M8 nuts and washers on the top surface. Refer to figure 11.

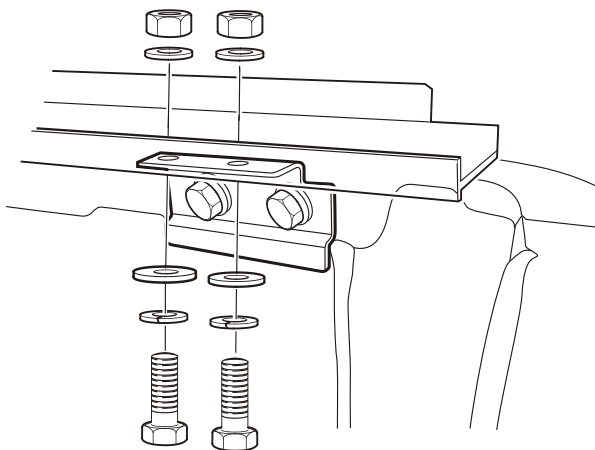


Figure 11

20. Fit 7 M6x20 bolts, spring washers and flat washers across the front canopy front rail and fix in position using a flanged nut on the lower surface. Refer to figure 12.

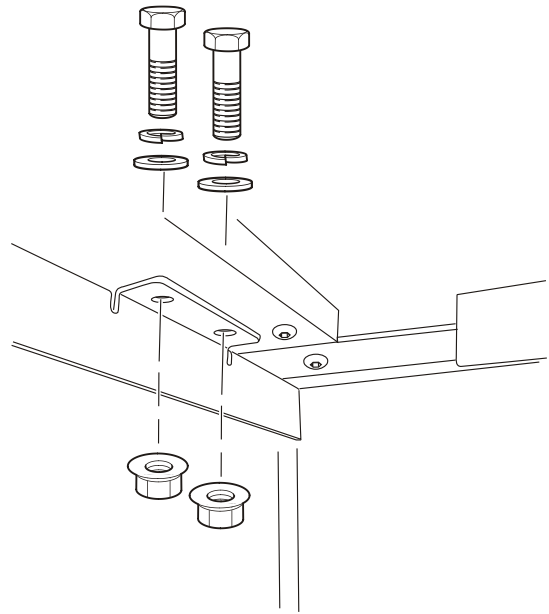


Figure 12

21. Place the small washers (5) on the 2 M6x20 bolts (7) and position the centre canopy bracket (6). With the lip (4) on the bottom edge of the bracket positioned under the lip (3) of the tray side, mark the centre of the hole in the bracket on the side of the tray (1). Centre punch and drill an 8mm hole in the side of the tray.

NOTE: Use a depth stop when drilling the hole to ensure the outer vehicle skin is not damaged.

22. De-burr the hole and treat the hole with the G16 anti-corrosion grease supplied. Attach the bracket with the bolts, spring washers, flat washers and nuts to fix the mid point of the canopy (2).
23. Use a M8x25 bolt (8), a spring washer and a flat washer to fit the centre canopy bracket to the tray with a flat washer and nut behind the channel of the canopy, ensuring the lip on the bracket is under the edge of the tray side and fix the canopy bracket to the vehicle. Tighten down the bracket to canopy bolts. Refer to figure 13.

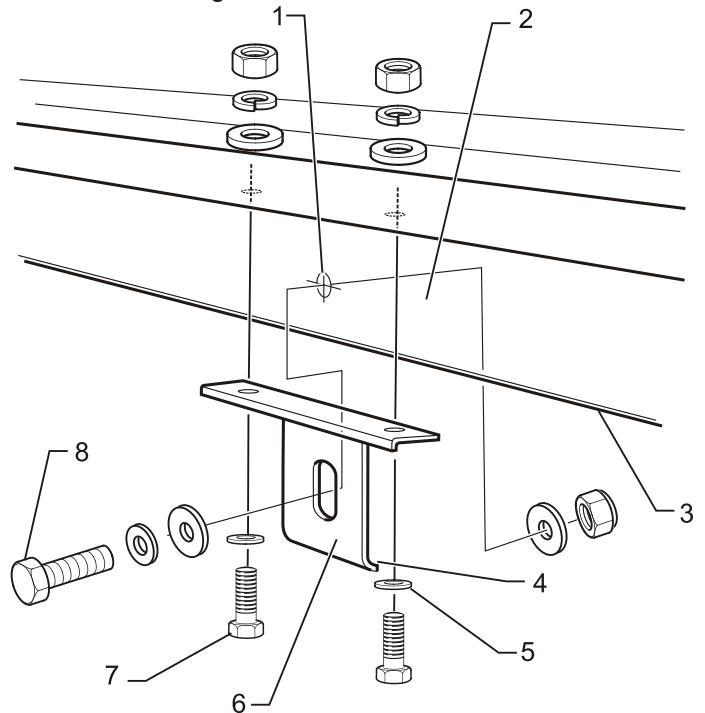


Figure 13

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24. Use a cleaning pad to clean the top surface and the outer radius of the tailgate. Position the anti-abrasive tape (3) along the top surface of the tailgate (2) 20 mm back from the front edge of the tailgate and hold in position using masking tape (1).

NOTE: Once the tape is in position, look along the length of the anti-abrasive tape and ensure the line is straight and does not deviate from the 20mm spacing from the front edge of the tailgate.

25. Peel back the backing sheet (4) from the end of the anti-abrasive tape and wet out the tape on the flat surface of the top of the tailgate.
26. Peel back the backing sheet and wet out the anti-abrasive tape as you go.
27. Once the anti-abrasive tape has been applied across the top surface, wet out the anti-abrasive tape over the radius of the tailgate. Refer to figure 14.

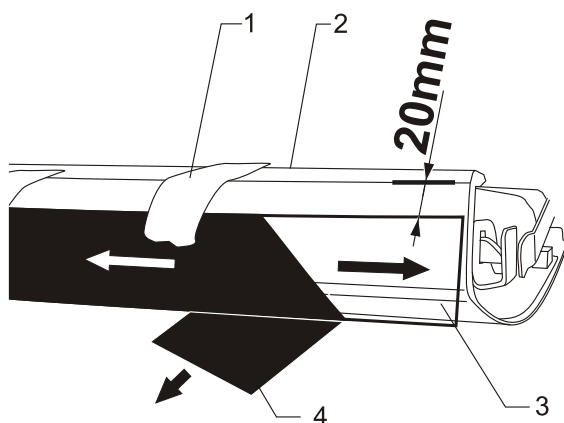


Figure 14

28. Open the left hand side vehicle doors, pull up and release the door sill plates. Also remove the sill on the front right side. Refer to figure 15.

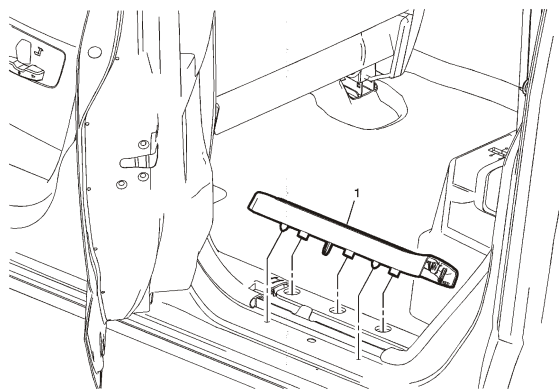
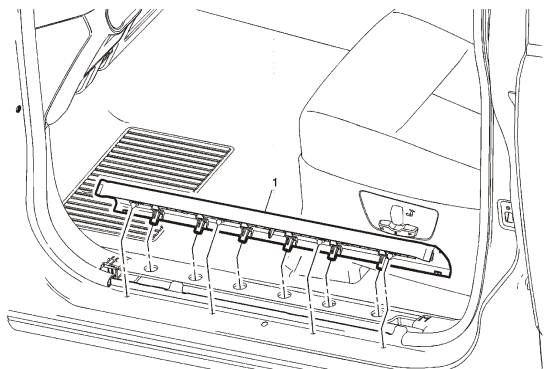


Figure 15

29. Remove the retaining nut (1) from both front side kick panels (2). Pull off the lower portion of door frame seal to release the kick panel and remove the kick panel from the vehicle. Refer to figure 16.

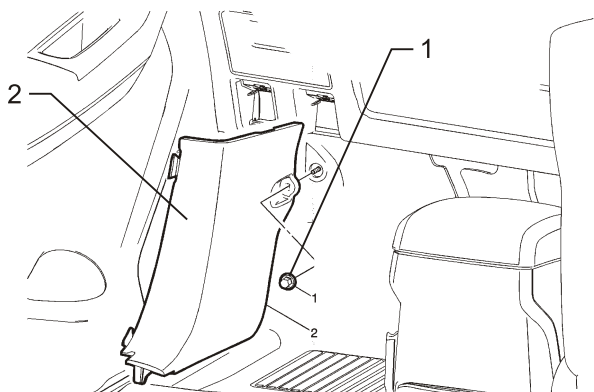


Figure 16

30. Pull the rear seat release tag and lower the rear seat back down (refer to the Owner's Handbook). Pull on the front edge of the rear side trim to remove the trim panel and gain access to the vehicle body cavity. Refer to figure 17.

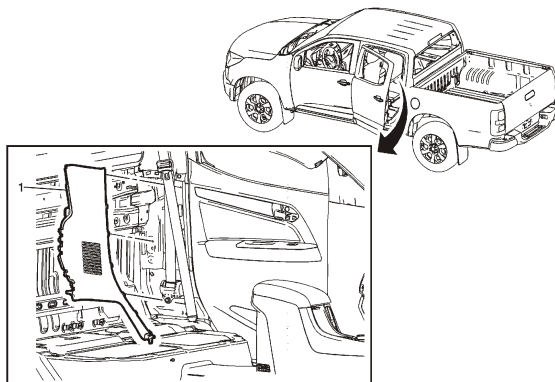


Figure 17

31. Remove the round grommet (3) from the rear left corner of the inner sill of the vehicle cab and feed a guide wire (1) up between the sheet metal and the acoustic foam (2) in the cavity. When the guide wire is visible from the seat belt retraction cavity, tape the canopy power harness to the guide wire and pull the harness into the vehicle. Pull the harness until the grommet on the harness is seated in the grommet hole. Refer to figure 18.

NOTE: Do not remove the seat belt retractor.

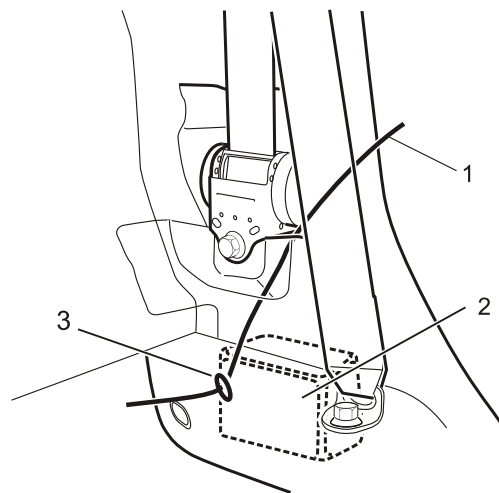


Figure 18

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32. From the rear left lower corner of the vehicle, feed the canopy power harness up over the vehicle chassis and cable tie in position. Trim excess length from cable ties. Refer to figure 19.

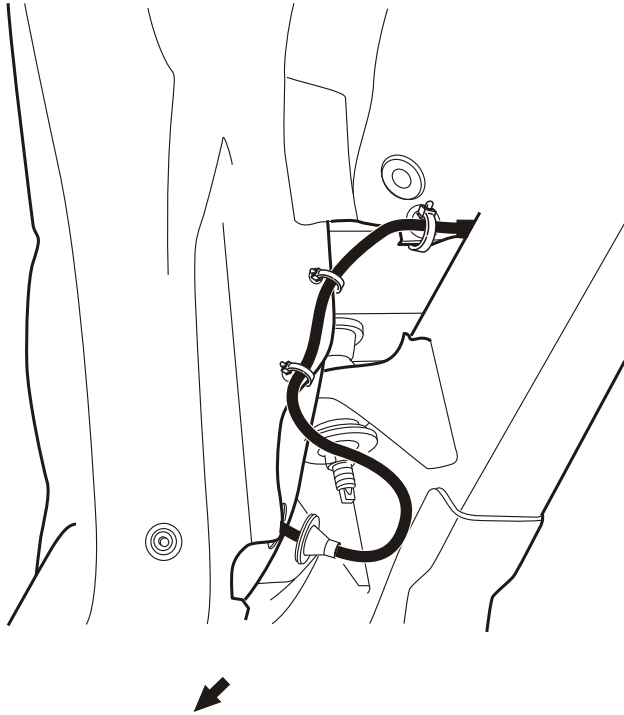


Figure 19

33. Run the canopy power harness along the vehicle body harness, use a guide wire to feed the canopy power harness behind the “B” pillar trim panel. Cable tie the canopy power harness to the vehicle body harness every 200 mm. Refer to figure 20.

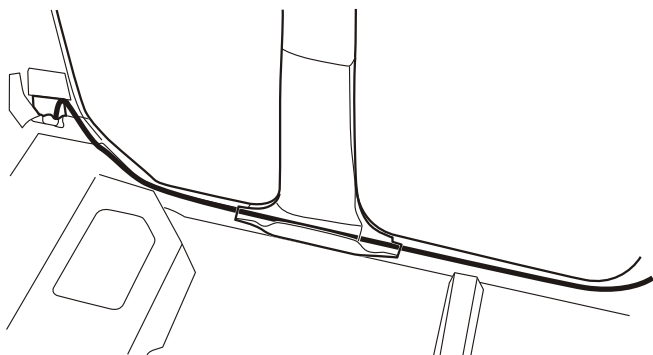


Figure 20

34. Run the canopy power harness up the side of the vehicle and across the underside of the HVAC unit, cable tying the canopy power harness to the vehicle body harness every 150 mm.
35. Remove the scrivet (1) fixing the lower corner of the centre console and pull the down the edge of the carpet (2) to expose the vehicle wiring earth point (3). Add the earth wire to the earth point. Refer to figure 21.

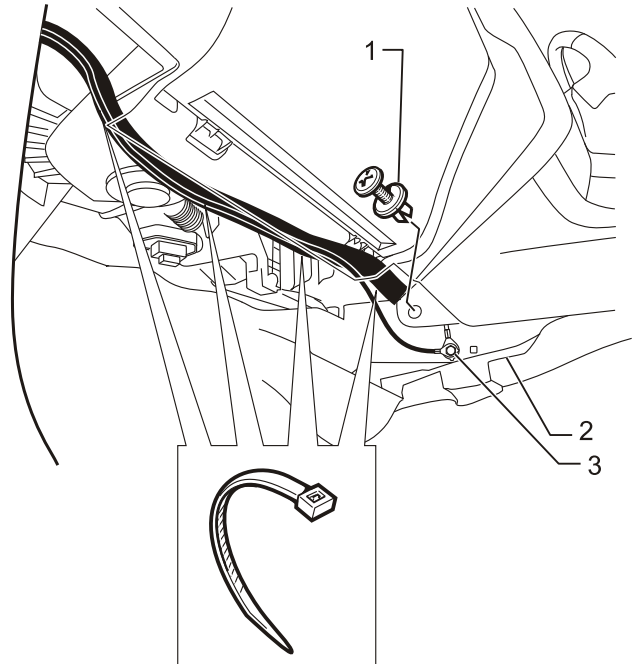


Figure 21

36. Feed the canopy power harness over the transmission tunnel.
37. Carefully pull back to release the lower dashboard cover and allow to hang. Refer to figure 22.

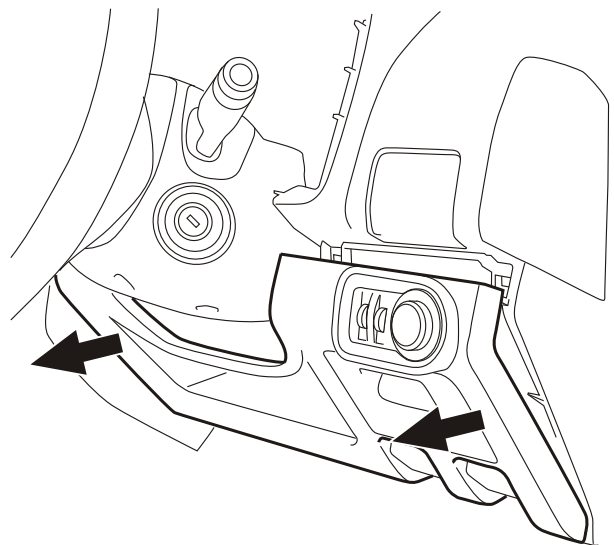


Figure 22

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38. Cable tie the canopy power harness to the dashboard support brace. Refer to figure 23.

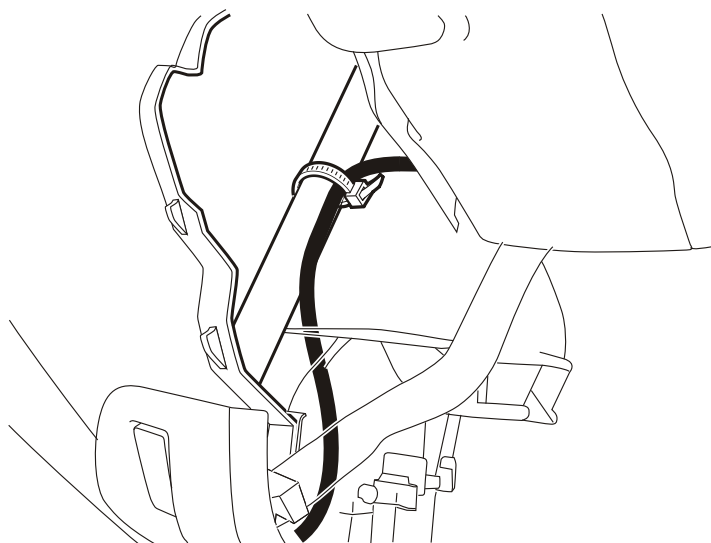


Figure 23

39. Pass the canopy power harness over the top of the steering column, across the top of the fuse box and down the side of the vehicle. Cable tie the harness to the vehicle body harness and the fuse box support bracket. Refer to figure 24.

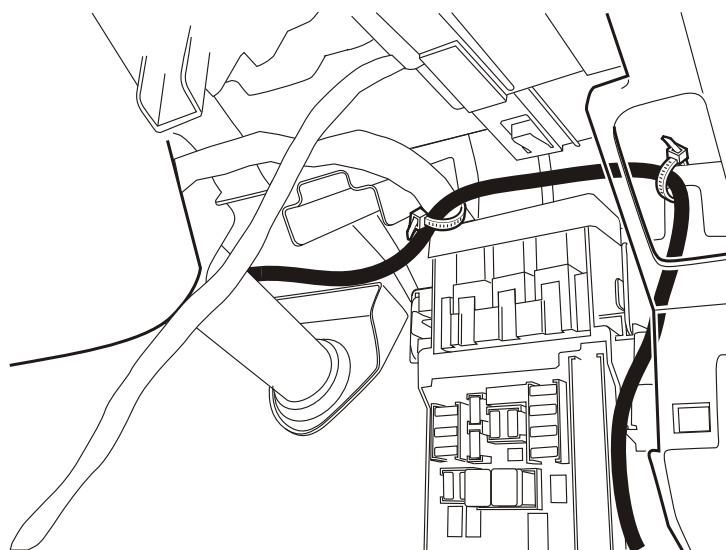


Figure 24

Refer to figure 25 for the following;

40. At the base of the right hand side foot well, release the lower connector (1) from the side of the vehicle and split the connector.
41. Unhouse pin 1 (2)
42. Install the terminal on the canopy power harness (3) into the now vacant pin position.
43. Locate the single connector (4) block supplied in the kit and fit the terminal backed out of pin 1 into the connector block. Ensure that the cavity used to insert the terminal corresponds with the terminal used in the canopy power harness connector.

44. Connect the single connector to the single foam wrapped connector on the canopy power harness (5).

NOTE: For pre MY14 vehicles please refer to the Appendix on page 11 of this instruction.

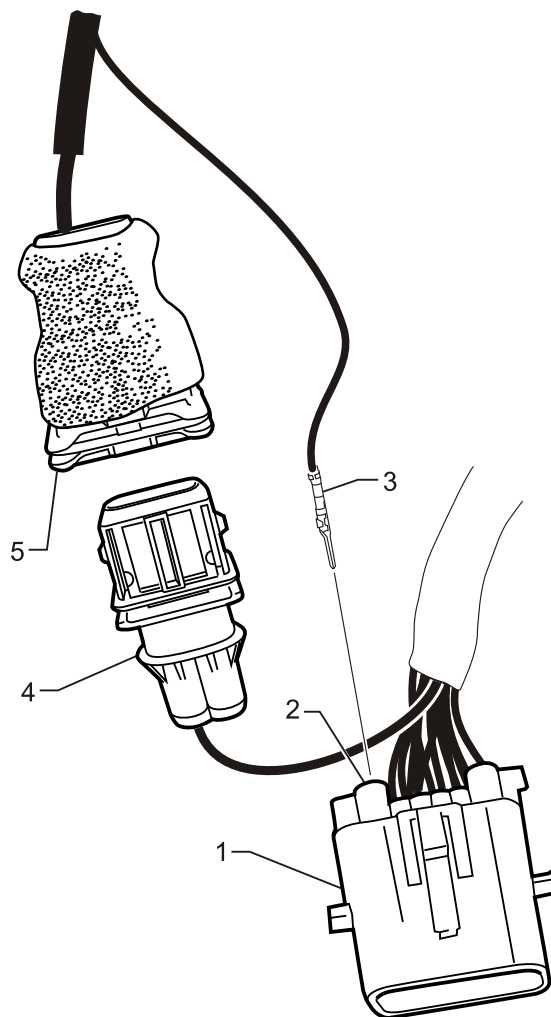


Figure 25

45. Run the canopy power harness along the vehicle body harness. Cable tie the two harnesses together at the locations where the vehicle body harness is attached to the chassis. Removing the vehicle spare wheel and the left hand side wheel arch liner will allow easy access to the vehicle body harness. Refer to Owner's handbook and eSI. Refer to figure 26.

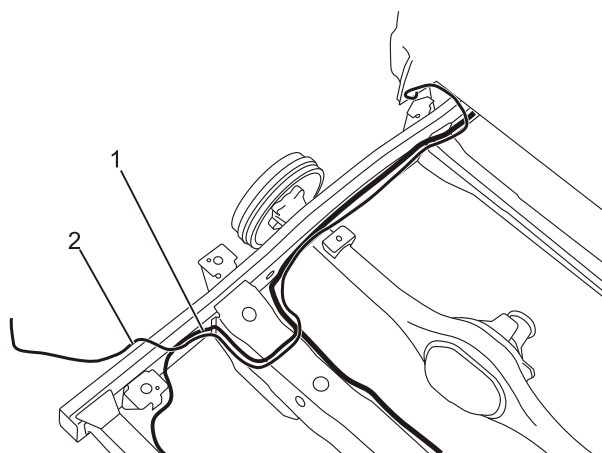


Figure 26

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46. Run the interior lamp harness under the lip of the tray and through the opening into the tail lamp cavity. Refer to figure 27.

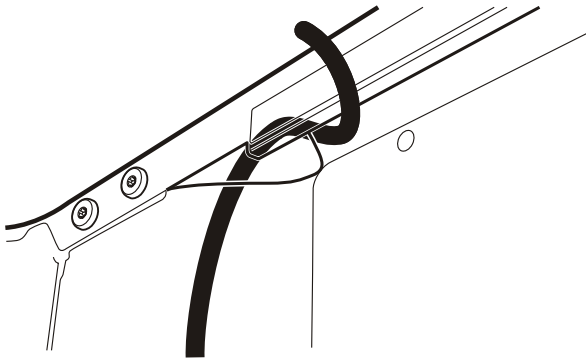


Figure 27

47. From under the vehicle connect the canopy power harness (2) to the canopy interior lamp harness (1) and cable tie as required.
48. Clip the cable tie (4) on the interior lamp harness into the hole in the sheet metal and slide the harness retaining clips (3) onto the edge of the sheet metal.
49. Cable tie the interior lamp harness to the vehicle rear tail lamp harness. Refer to figure 28.

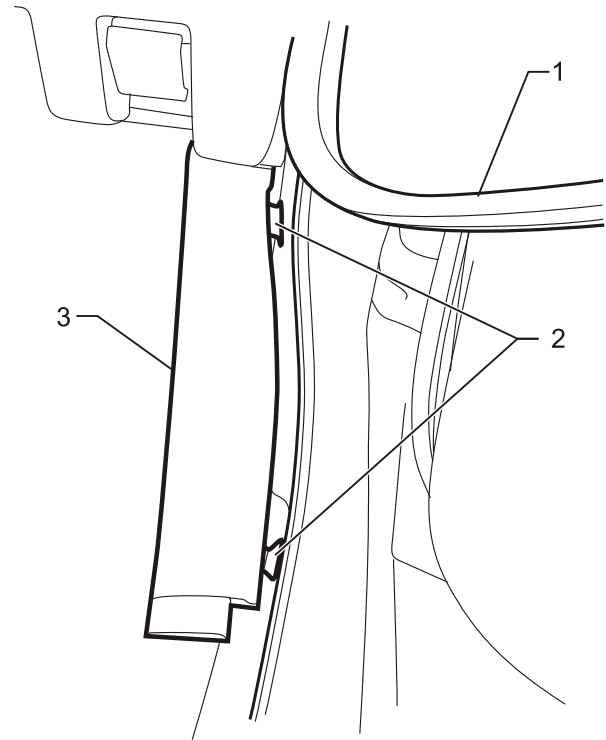


Figure 29

52. Re-fit all removed parts.

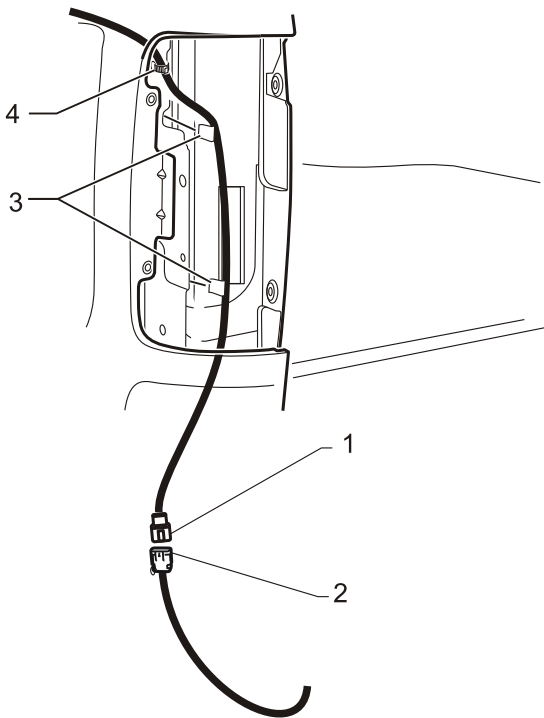


Figure 28

50. Check the interior lamp in the vehicle canopy for correct operation.
51. When reinstalling the kick panels (1), ensure the two tabs (2) on the kick trim (3) are captured behind the door seal trims. Refer to figure 29.

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CANOPY REAR DOOR

PULL ROD & LATCH STRIKER ADJUSTMENT INSTRUCTIONS (FOR USE DURING CANOPY FITMENT)

Please use these instructions when adjustments to the pull rods and latch strikers are required.

Place these instructions in vehicle's glove box after installation is complete.

IMPORTANT:

Prior to making any adjustments to the canopy door, please carefully check that the canopy has been fitted as per original fitting instruction. If the canopy needs repositioning, please follow the steps from the canopy fitting instruction (you may require new hardware kit items such as foam sealing tape, to reposition the canopy). Read instructions carefully before installation. It is strongly recommended that installation is conducted by an authorised dealer. This product must be installed exactly as specified in these instructions. Failure to do so may result in improper fit and/or retention.

TOOL REQUIRED: 10mm socket, extension bar and driver, 10mm spanner, torque wrench - 0-10Nm, 150mm steel rule and phillips head screwdriver.

IMPORTANT:

Remove and retain the keys that may be attached to the interior rear door handle. Open the side windows. With the vehicles tailgate closed, close the rear door firmly from the centre of the door without using excessive force.

NOTE: The latch has 2 stages of engagement. Ensure the second stage of the latch has engaged and the lower rear door seal has sealed against the tailgate.

Check both the rear door clamp frame seal has sealed and the lower door sash seal is sealed and the latches have engaged to second stage. If you cannot close the rear door to second stage, please check the scenarios below. If door closes properly, also check operation of the lock using the keys to lock it. Pull on the handle to open. If the door unlocks, follow scenario 4 below.

POSSIBLE SCENARIOS:

1. Rear door latch strikers engaged in 2 stage latching. Door seal not properly contacting the tailgate. Follow stage 1 for adjustment instruction.
2. Rear door seal contacting tailgate but latch striker not engaging second stage. Follow stage 2 for adjustment instruction.
3. Rear door does not close, due to latch striker misalignment with latch. Follow stage 2 for adjustment instruction.
4. Unable to lock-unlock rear door or unable to reopen rear door. Follow stage 3 for adjustment instruction.

STAGE 1- NOT SEALING AT TAILGATE

1. Adjust the rear door latch striker hoops (1), by loosening the bolts (2) with a 10mm socket and adjust the striker bracket and tighten to 9Nm of torque . Close the rear door firmly from centre of lower rear door sash without slamming it too hard.

NOTE:

Latch has 2 stages of engagement. Ensure canopy engages with second stage of latch and the lower rear door seal is compressed against the tailgate. Refer to figure 1.

If there is not enough travel in the striker hoops from repositioning them, the canopy position on the tub must be moved forward to seal the door to the tailgate.

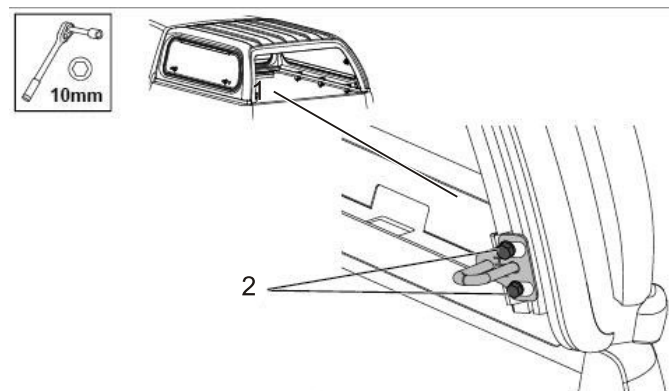
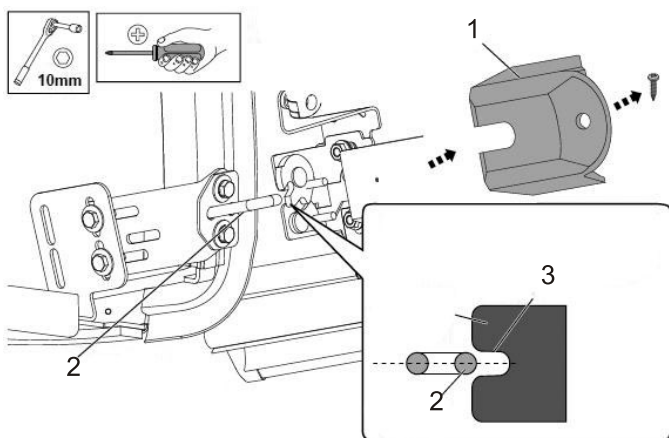


Figure 1

STAGE 2- DOOR NOT CLOSING PROPERLY

1. With the side window open, remove the latch cover (1) by unscrewing the phillips head screw holding the cover on. Check and adjust if necessary the rear door latch striker hoop (2) so it avoids hitting the side metal support of the latch (3) mechanism on closing. You will have to climb inside the tub to watch the striker position as you pull the rear door towards its closing position. Refer to figure 2.



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brackets more or less to compensate. Then follow steps 4 and 5 again. Refer to figure 7.

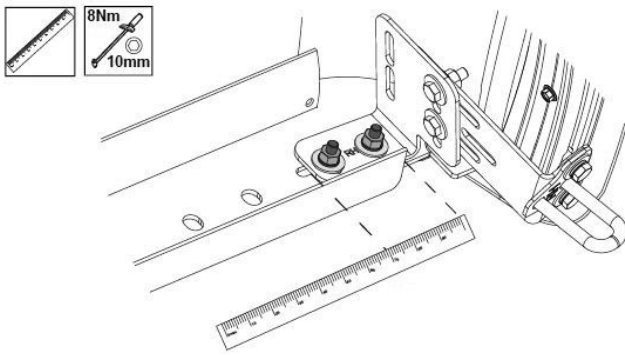


Figure 7

STAGE 3- LOCK NOT WORKING / ADJUST CORRECTLY

1. With both side windows open, test both rear door keys work to lock and unlock the rear door. Confirm that the door seal (1) is on the tailgate. Refer to figure 8.

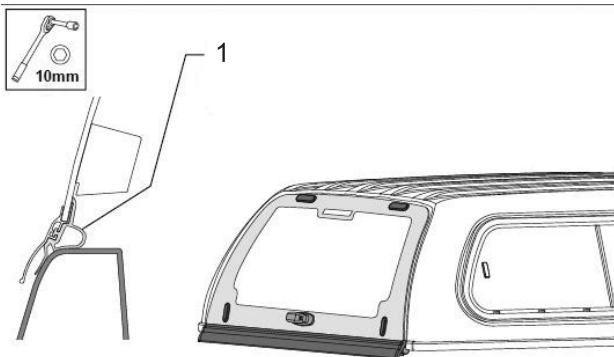


Figure 8

2. If the rear door handle does not lock, remove the interior (1) lock cover and unclip the pull rods (2). Refer to figure 9.

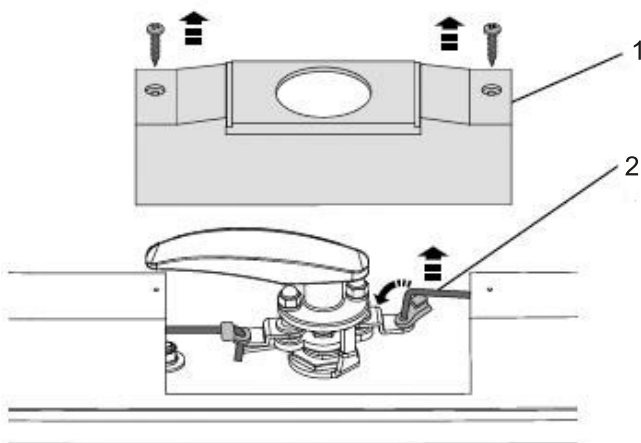


Figure 9

3. Wind the rods (1) to adjust them until the safety release lever reaches 1mm gap or less (2) (cover removed for clarity). The gap must not be more than this. To lengthen the rods, rotate the rod in an anti-clockwise direction. To shorten, turn the rod clockwise.
Repeat the pull rod adjustment on the opposite side. Refer to figure 10.

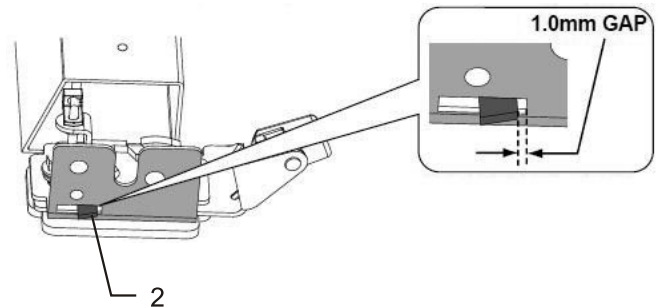
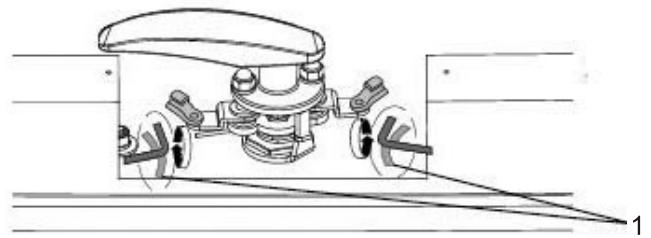


Figure 10

4. Clip the pull rods into the retainer clips (1). Check with the latch covers removed and manually closing each of the rotary latches. Adjust the pull rods until both latches can be heard to operate simultaneously. Close the door and re-check the door handle locks with the key. When pulled, the door handle should now only unlatch the door when the key unlocks it. Then replace the interior lock covers x3 and screws x4. Add the canopy keys to the customer's vehicle keys. Refer to figure 11.

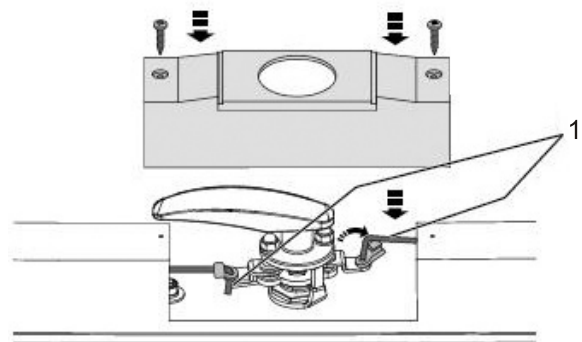


Figure 11

Make a note of the canopy key number in the boxes below and cut out and attach the label in the cover of the Owner's Handbook

Key Number

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ALL INFORMATION WITHIN ABOVE BORDER TO BE PRINTED EXACTLY AS SHOWN ON A4 80 GSM RECYCLABLE PAPER. PRINT ON BOTH SIDES, EXCLUDING TEMPLATES. TO BE UTILIZED IN ACCORDANCE WITH GMSPO SPECIFICATIONS	REV	DATE	REVISION	AUTH	DR	CK	TITLE <div>INSTALLATION INSTRUCTIONS</div> <div>TRAY CANOPY KIT</div>
	001	06MY14	Initial release	GMWMM	PM	SM	
							PART NO. <div>92279204</div> <div>Sheet 10 of 11</div>

APPENDIX

Refer to figure 1 for the following;

- 1. At the base of the right hand side foot well, release the lower connector (1) (X209) from the side of the vehicle and split the connector.
- 2. Remove the anti-backout lock (2) and unhouse pin E (3).
- 3. Splice the canopy wiring harness power wire (4) into the Brown / White wire (5).
- 4. Complete the installation by covering the joint with heat shrink tubing or electrical tape as required.
- 5. Reinstall Pin E into the original location in the connector and reinstall the plug into the vehicle wiring harness.

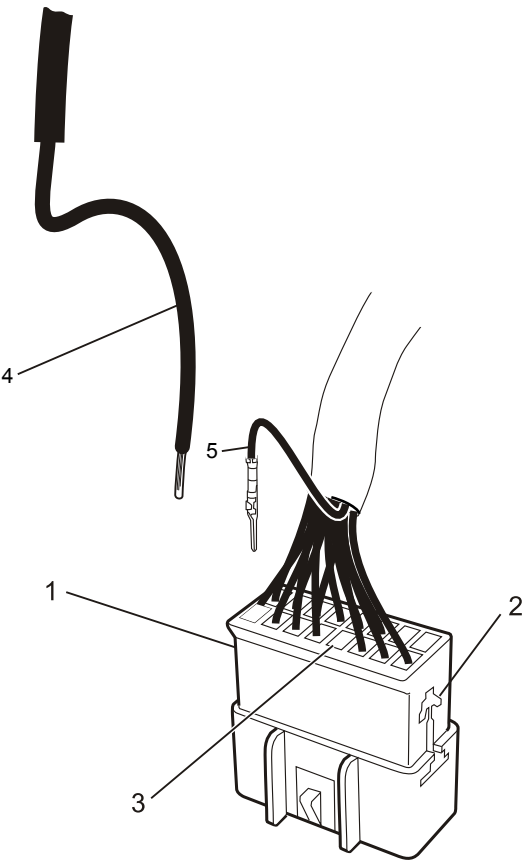


Figure 1

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ALL INFORMATION WITHIN ABOVE BORDER TO BE PRINTED EXACTLY AS SHOWN ON A4 80 GSM RECYCLABLE PAPER. PRINT ON BOTH SIDES, EXCLUDING TEMPLATES. TO BE UTILIZED IN ACCORDANCE WITH GMSPO SPECIFICATIONS	REV	DATE	REVISION	AUTH	DR	CK	TITLE INSTALLATION INSTRUCTIONS TRAY CANOPY KIT
	001	06MY14	Initial release	GMWMM	PM	SM	
							PART NO. 92279204
							Sheet 11 of 11