



# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER **03352RW**  
**MERCEDES GLE/GLS 167 CL4**



## PRODUCT DETAILS:

<b>Part Number:</b>	<b>03352RW</b>	<b>Maximum Towing Braked:</b>	<b>3500</b>	kg
<b>ECU Number:</b>	<b>WLE70021</b>	<b>Maximum Towing Unbraked:</b>	<b>750</b>	kg
<b>Tail Harness Length Required:</b>	<b>1800 mm</b>	<b>Maximum Static Ball Load:</b>	<b>350</b>	kg
<b>TBM/Lug Part Number:</b>	<b>21342</b>			
<b>Wiring Part Number:</b>	<b>WLL90021</b>			

## FITTING DETAILS:

<b>Towbar Installation Time:</b>	<b>120 Mins.</b>	<b>Hayman Reese SmartCODE Solution Required:</b>	YES
<b>Wiring Installation Time:</b>	<b>20 Mins.</b>	<b>RPA Disable/Other:</b>	YES
<b>Total Installation Time:</b>	<b>140 Mins.</b>		
<b>Bumper Cut Required:</b>	Yes		

### Note:

- Electric brake = 2-way connector position (f).
- Please refer vehicles owner's manual for proper operation and understanding of towing features enabled when coded.



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**ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT.**

## **i** BEFORE YOU START:

Hayman Reese recommends that instructions are read completely prior to fitment. Check all hardware items have been included refer to assembly diagram. Please ensure this towbar is only fitted to vehicle models as per Hayman Reese application guide ([www.haymanreese.com.au](http://www.haymanreese.com.au)).

### **Bumper Cuts**



Vehicle and bumper variations can and do occur during vehicle manufacture after initial towbar design. Fitment of towbar to vehicle and accuracy of bumper cut must be assessed prior to any bumper modifications made. Incorrect bumper cuts are not covered under Hayman Reese warranty.

**NOTE: Bumper cuts need to be approached with care, refer to notes below.**

- Bumper centreline – where the centreline of the bumper needs to be determined, the installer must assess centre point by measurement of bumper width or determining two symmetrical reference points to give centreline.
- Bumper edge – To assist with accurate bumper cut measurement, reference to the start of the bumper edge is now being commonly used.
  - Measure from bottom edge along bumper and around corner to the 70 mm point (Figure 1).
  - Do not measure from visible bumper front of corner, upwards (Figure 2).

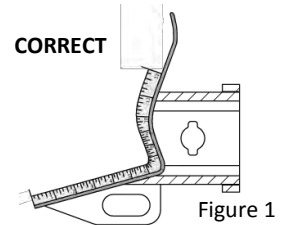


Figure 1

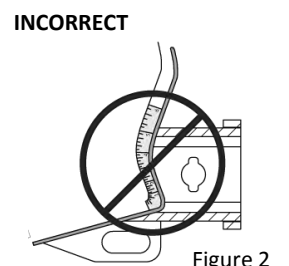


Figure 2

### **Drilling**

- For any required drilling during installation, ensure that the area is clear of fuel, electrical & other components that may be damaged.
- All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.

### **Bolts/Fasteners**

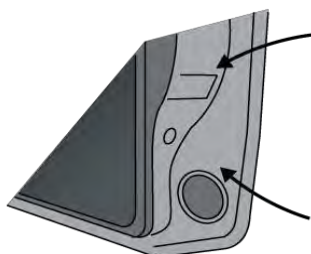
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



**NOTE: Achieving correct torque is critical to proper installation and responsibility of the installer. Towbar failures attributed to tension issues from over tightening or under tightening are not covered by Hayman Reese warranty.**

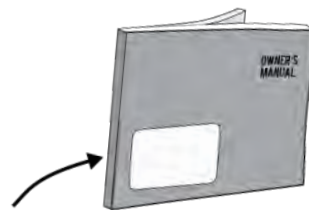
### **Product Labels**

- a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.
- b. Powertrain Control Module (PCM)/Body Control Module (BCM) upgrade warning label will be provided in towbar kit for vehicles as required. Affix warning label in door and owner's handbook.



Place **Load Rating sticker** inside driver's door here

Place **Vehicle PCM/ BCM upgrade warning label** in door AND on front cover of owner's service handbook



## **WARNING:**

**Do not, drill, cut, weld or otherwise modify the towbar.**

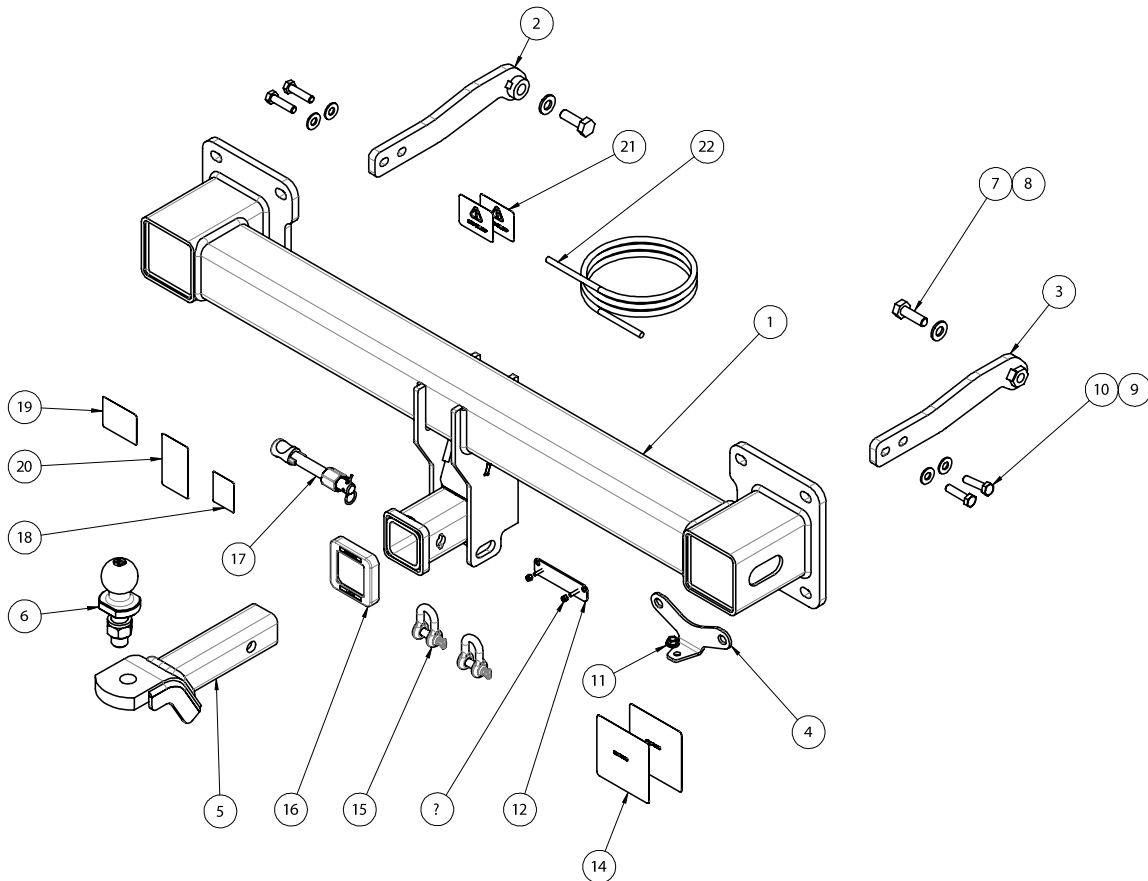
**FOR TOWING PURPOSES ONLY - This towbar is designed and tested by Hayman Reese to adhere to ADR 62/02 which provides only for the expected load demands of towing.**



# TOWBAR INSTALLATION INSTRUCTIONS

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## **i** TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	WELDED ASSEMBLY	1
2	SIDE ARM ASSY LH	1
3	SIDE ARM ASSY RH	1
4	TANK BRACKET	1
5	TRAILER BALL MOUNT	1
6	TOWBALL 50mm	1
7	SET SCREW HEX HD M14x40x2.0P	2
8	WASHER PLAIN M14x28x3	2
9	WASHER PLAIN M10x23x2	4
10	BOLT HEX HD M10x40x1.5P	4
11	NUT HEX HD FL M8x1.25P	1

ITEM	DESCRIPTION	QTY
12	PLUG BRACKET	1
13	NUT NYLOC HEX HD M4x0.7P	2
14	3M ANTI SCUFF FILM 100x100x0.3	2
15	"D" SHACKLE 10mm	2
16	HITCH BOX COLLAR COVER	1
17	SMART PIN GOLD	1
18	H.R STICKER	1
19	COMPLIANCE LABEL	1
20	LOAD RATING LABEL	1
21	CAN MODULE WARNING LABEL	2
22	WIRING LOOM	1

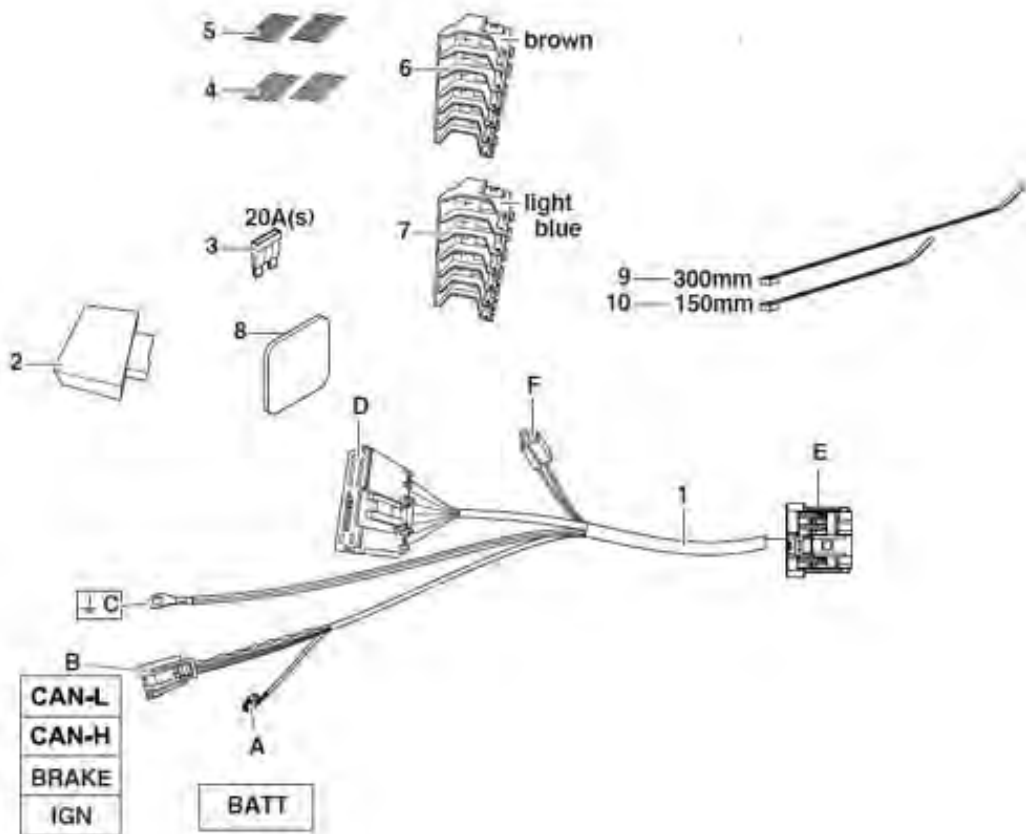


# TOWBAR INSTALLATION INSTRUCTIONS

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## WIRING ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	WLL90021 TRAILER PATCH	1
2	TRAILER MODULE (WLE70021)	1
3	20amp FUSE	1
4	HOOK TAPE	2
5	LOOP TAPE	2
6	BROWN FUSE HOLDER <b>(NOT REQUIRED)</b>	1
7	LIGHT BLUE FUSE HOLDER <b>(NOT REQUIRED)</b>	1
8	FOAM PAD	2
9	300mm CABLE TIE	3
10	150mm CABLE TIE	5



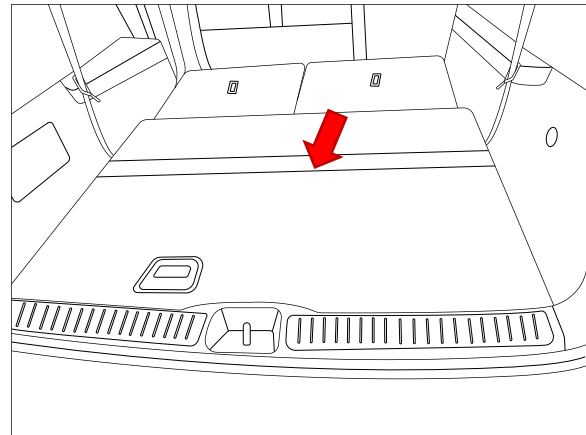
# TOWBAR INSTALLATION INSTRUCTIONS

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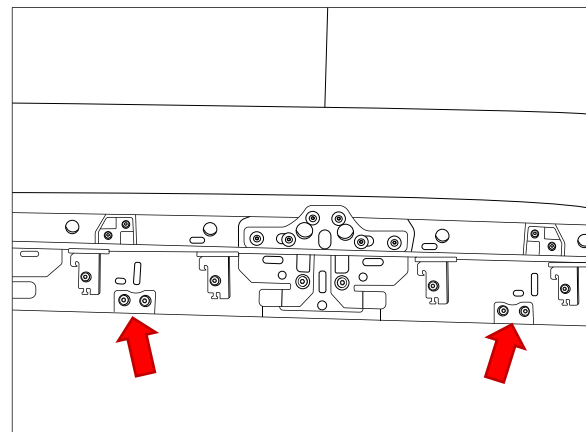
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1. NOTE: This fitting instruction has detail for both the GLS and the GLE series, however each model within the series is not covered. There may be variants within the models relating to the interior and type of wheel skirting used.

2. Open tailgate and fold down rear seats.
3. Lift the intermediate cover near the back of the rear seat to expose the main packaging tray mounting screws.



4. For GLS model, remove 4 x mounting screws and remove the packaging tray from the boot.





# TOWBAR INSTALLATION INSTRUCTIONS

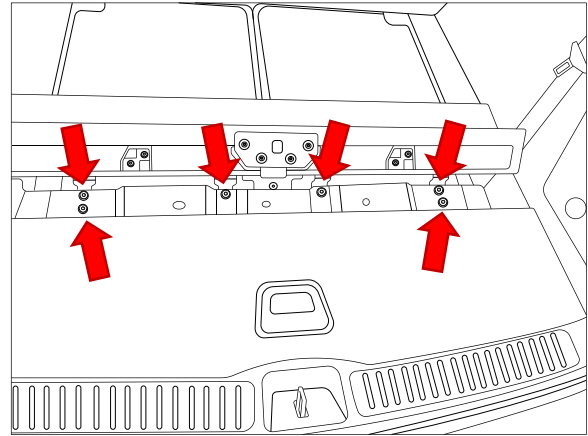
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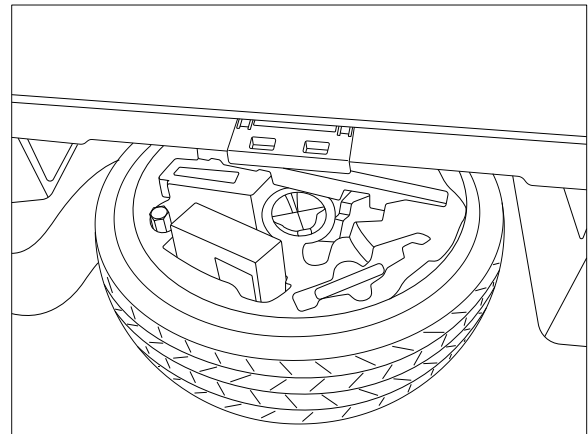
5. For GLE model remove 6 x torx screws from the seat mounting plate and remove packaging tray from the boot.

**For the GLS model, continue with steps 6 through to step 16.**

**For the GLE model, jump to step 17**

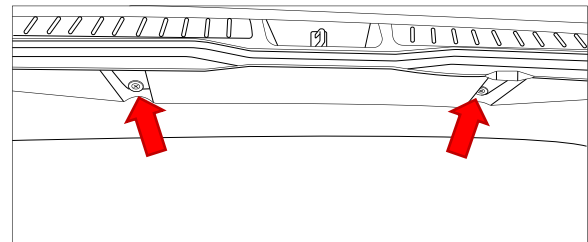


6. Remove the spare tyre along with the other loose components in the tyre well area.



7. From inside the tyre well area remove 2 x screws securing the scuff plate.

8. Remove the scuff plate by pulling upwards.



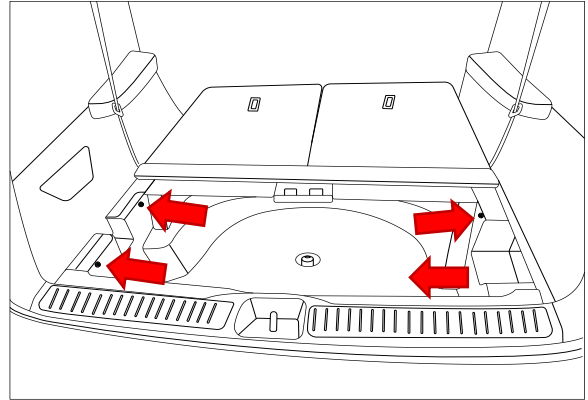


# TOWBAR INSTALLATION INSTRUCTIONS

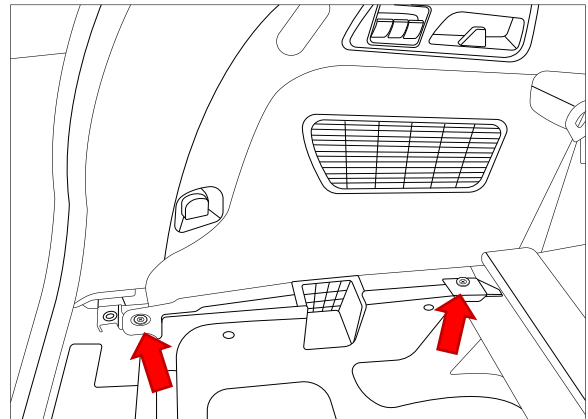
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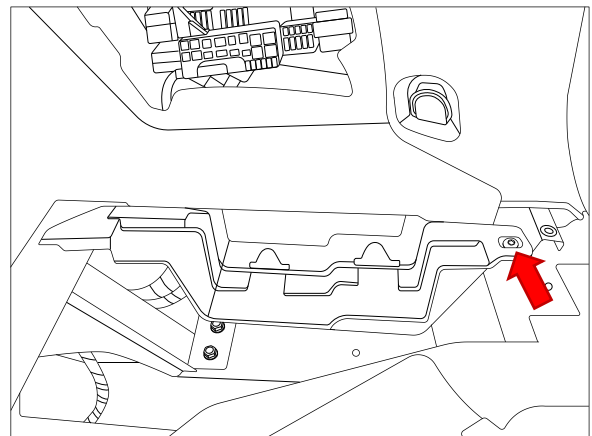
9. In tyre well area, remove 2 x scrivets on LH side and 1 x scrivet on the RH side.
10. Remove the RH side plastic storage tray, by pulling it inwards.



11. On LH side of tyre well, remove the plastic moulding secured with 2 x screws.



12. On RH side of tyre well, remove the plastic moulding secured with 1 x screw.

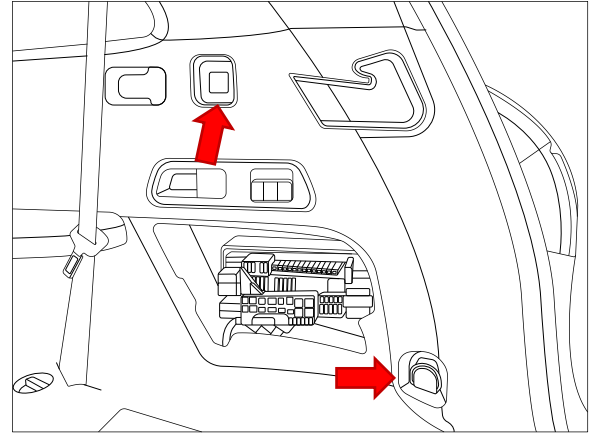




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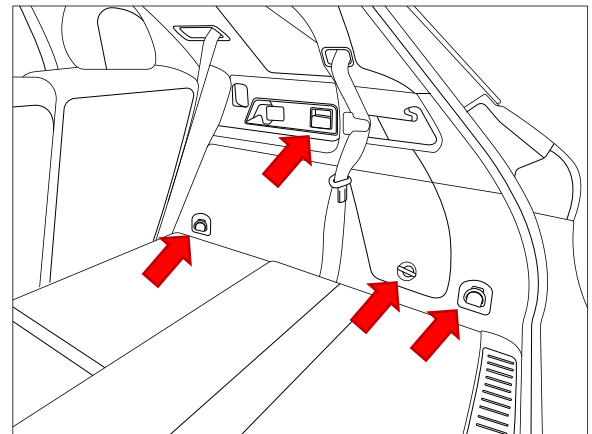
13. In boot on RH side, remove the fuse cover.
14. On the RH side panel, unclip the 2 x covers to reveal the mounting torx screws. Remove the 2 x torx screws.  
Repeat step 14 for the other side.
15. Dislodge the trim, disconnect any connectors and remove the RH rear side plastic panel.
16. For LH side, only dislodge the plastic panel to gain access to the rear light fittings.



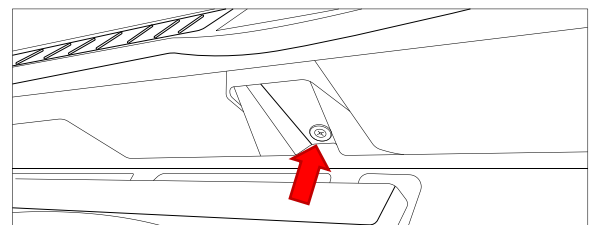
**Jump to Step 23 to continue with the GLS**

**Note: Steps 17 to 22 are for GLE only.**

17. On the RH side panel remove the anchor point trim covers to reveal torx screws. Remove the torx screws. Remove fuse cover trim panel.
18. Dislodge the trim, disconnect any connectors and remove the RH rear trim panel.  
  
For LHS, remove only the rearmost 1 x anchor point and dislodge trim to allow access to the light mounting studs.



19. Remove the contents from the plastic packaging tray.
20. Remove 1 x Torx Screw from the centre of the scuff plate and remove the scuff plate by pulling upwards.







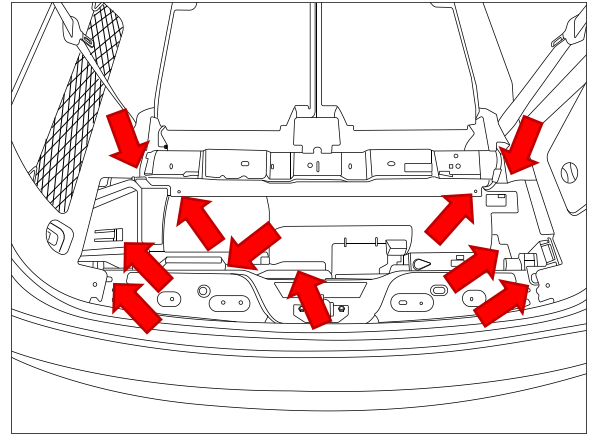
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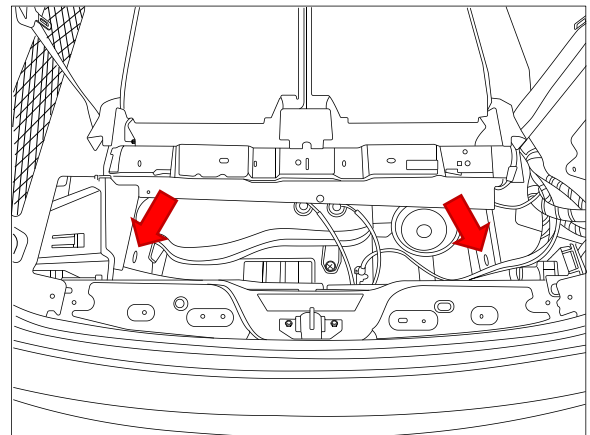
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21. From the boot area remove the following items to enable the removal of the packaging tray:

- 2 x scrivenets from the floor trim.
- 4 x Bolts (2 x LH side 2 x RH side) of the seat mounting plate.
- 4 x plastic nuts securing the plastic packaging trim.
- 2 x torx on packaging tray.



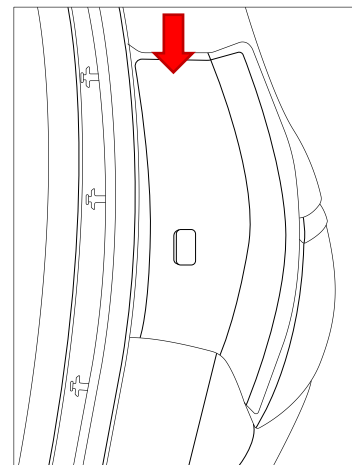
22. Remove the plastic packaging tray to expose the towbar side arm mounting hole locations (used in Step 33).



## For GLS and GLE models

23. Remove tail light plastic cover trim.

Repeat for the other side.



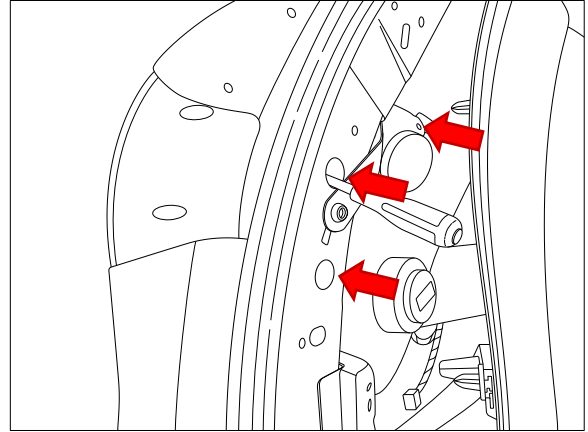


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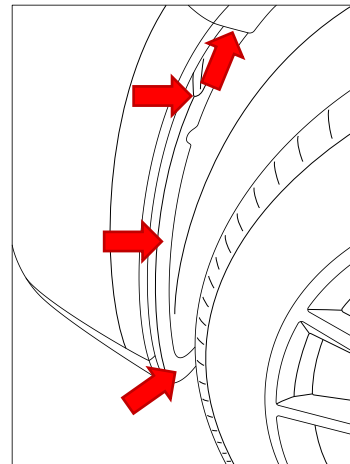
24. Disconnect from wiring harness and remove the tail light, secured with 3 x nuts.

Repeat for other side.



25. In wheel arch, remove 3 x scrivenets and 1 x screw securing the bumper to the wheel skirting.

Repeat for other side.



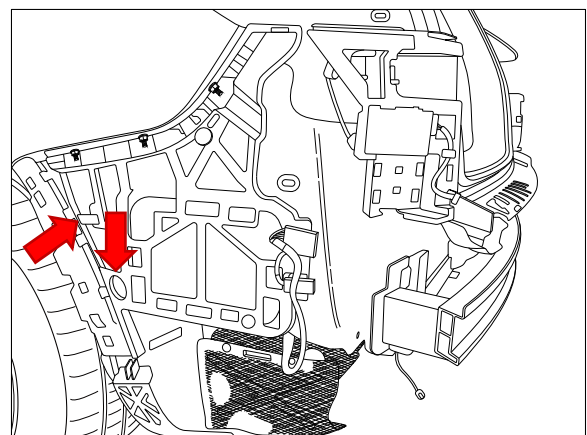
26. Peel away wheel arch trim and using the \*notch as a guide, locate and remove 1 x hex screw securing bumper to plastic moulding (short extension may be required).

\*notch may not be visible on some models.

27. On the inside of the bumper locate and remove the vertical mounted plastic scrivet securing the bumper to the plastic moulding.

Repeat both steps for other side.

**Image is shown with bumper removed to illustrate approximate locations of fasteners.**





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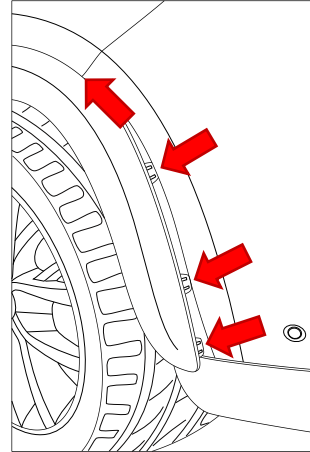
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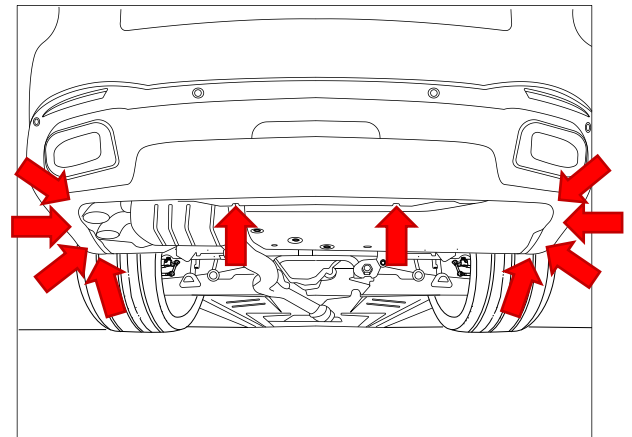
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## For some Models.

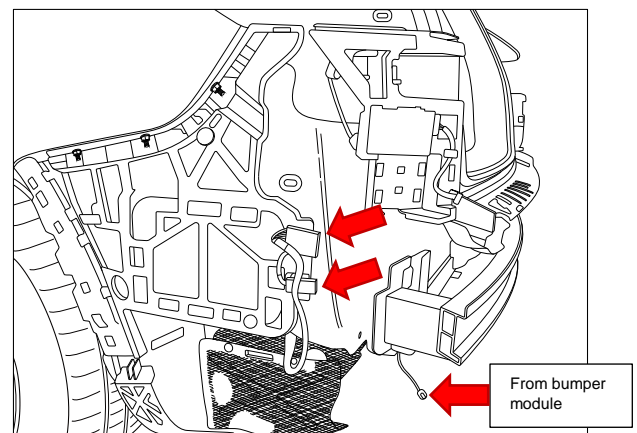
28. Un-clip wheel arch cover from vehicle.  
Remove screw holding bumper edge to vehicle.  
Repeat for other side.



- 
29. Under and along bumper, remove 6 x screws and 2 or 4 x scrivets (model dependant).



- 
30. Peel away bumper from sides and remove from vehicle.  
Ensure to disconnect the 2 wiring looms located on the LH side along with the 1x harness connected to the sensor module on the bumper.



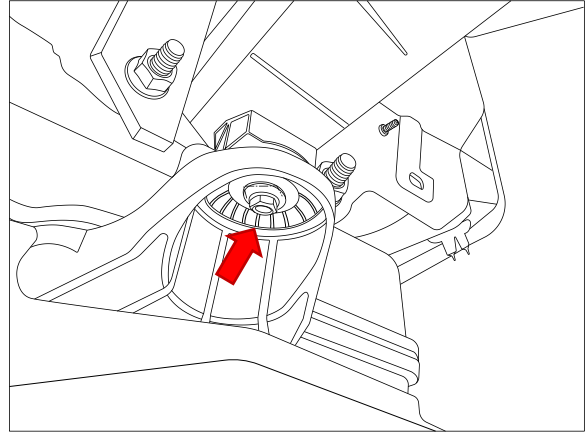


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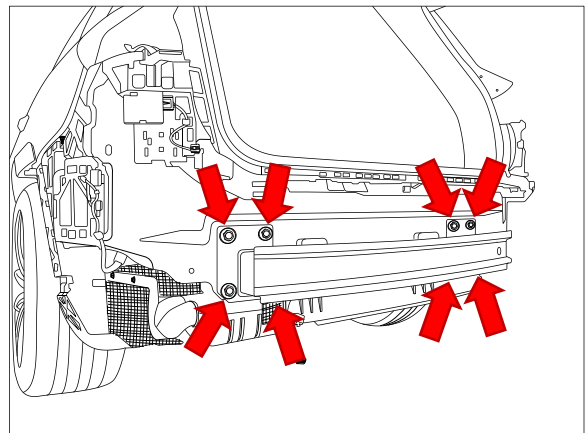
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31. On the RH side, remove the bolt securing the adblue tank to the impact beam and retain the bolt.



32. Remove and discard the impact beam, secured with 4 x nuts per side.  
Retain the 8 x nuts for the towbar fitment.

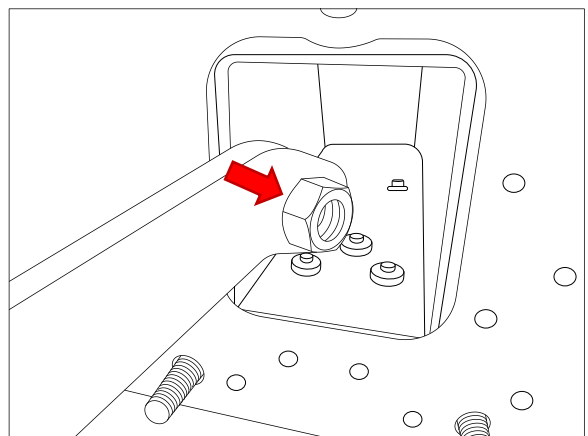


33. Insert side arm into chassis rail and loosely secure from inside the vehicle with 1 x M14 bolt complete with 1 x washer.

**Ensure that the weld nut is facing towards the outside of the vehicle.**

Image illustrates the RH side arm installation.

Repeat for other side.





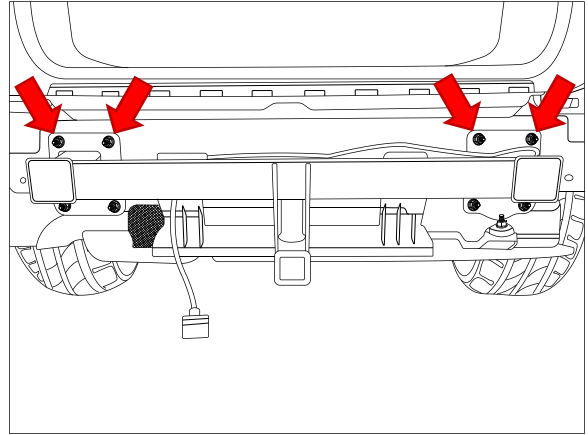
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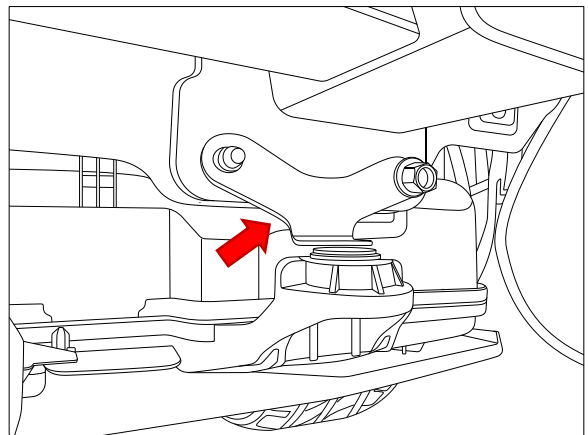
34. Prior to the crosstube installation, apply sealant (not supplied) to the crosstube mounting plates to ensure a suitable (dust/water) seal between the vehicle and the crosstube mounting plates.

35. Position the crosstube onto the vehicle stud mountings and loosely secure only the 2 x top studs (per side) with the retained nuts from step 32.



36. Fit the ad blue tank bracket onto the bottom studs, on the RH side, of crosstube assembly.

37. Loosely secure the 2 x bottom studs (both LH and RH sides of vehicle) with the retained nuts.



38. Loosely secure the side arm to the crosstube captive nuts with 2 x M10 bolts complete with 1 x washer per bolt.

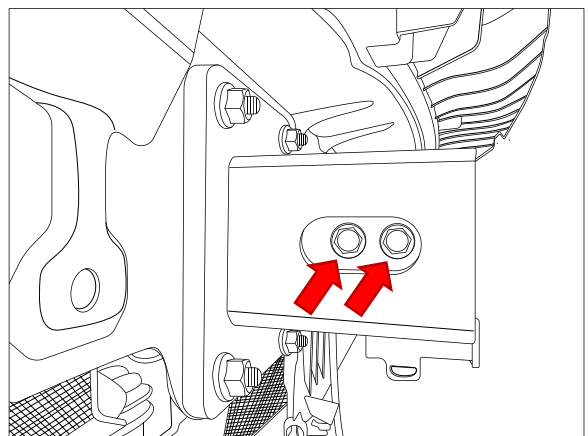
Repeat for other side.

Tighten all fasteners to the following torques.

**M10 x 1.5 : 44Nm**

**M12 x 1.5 : 85Nm**

**M14 x 2 : 124Nm**



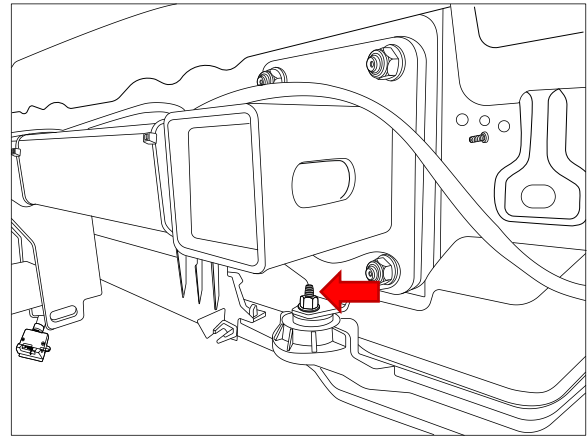


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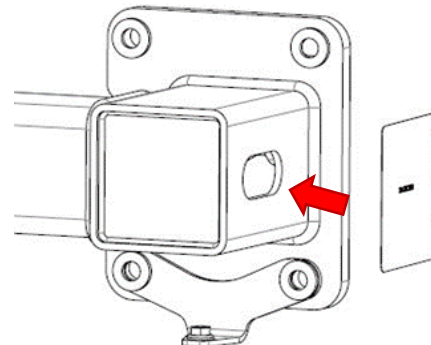
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39. Secure the Ad-Blue tank to the bracket with the bolt retained (step 31) and the M8 flanged nut supplied.



40. Clean the outer surface of the side arm and affix the supplied label to cover the side arm slot.

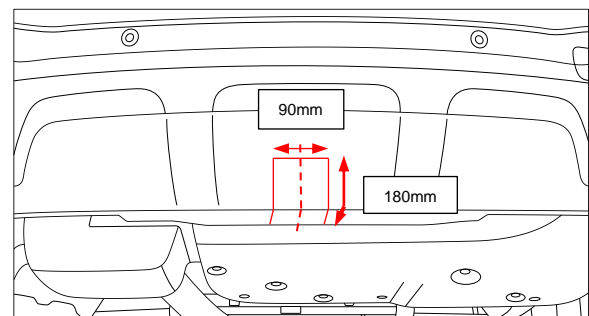
Repeat for other side.



41. **For GLS bumper cut.**

Determine the centre of the towbar, measure, mark off and cut out a section 90mm wide and 180mm long, measured from the bottom edge of the bumper.

**Be careful not to cut through or damage the foot swipe cable located on the inside of the bumper.**





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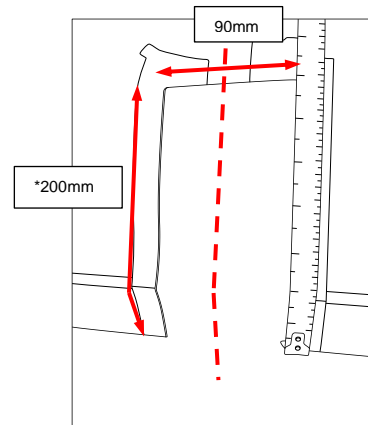
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## 42. For GLE bumper cut.

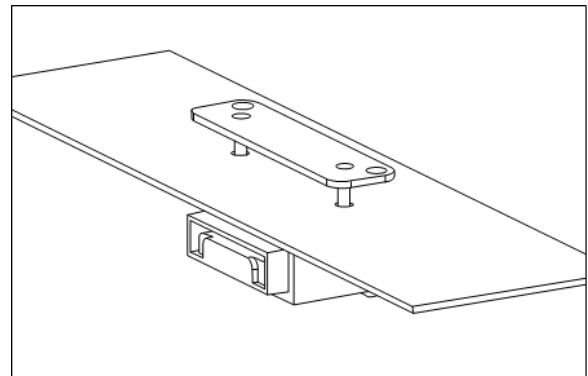
Determine the centre of the towbar, measure, mark off and cut out a section 90mm wide and \*200mm long, measured from the bottom edge of the bumper.

**Be careful not to cut through or damage the foot swipe cable located on the inside of the bumper.**

**\* NOTE: This was bumper cut was conducted for an air suspension model. Other models may require a shorter length of bumper cut.**



43. At an appropriate position on the bumper, mark out and drill 2x  $\varnothing$ 5mm holes 69mm apart on bumper skin to support plug bracket. Feed bracket threads through drilled holes prior to reinstalling bumper





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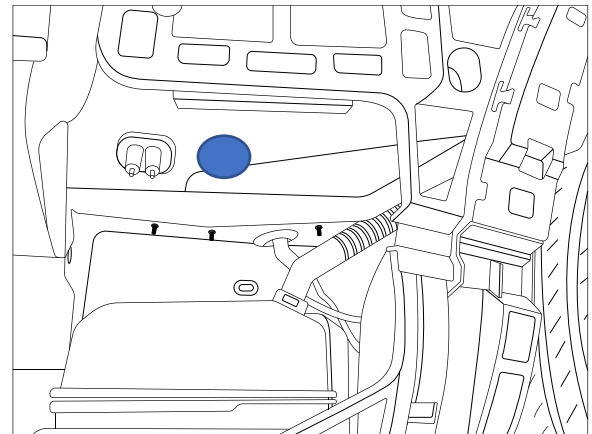
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## IMPORTANT

Due to possible vehicle variations, always confirm any noted vehicle colour wires with a multi-meter to ensure the correct function is identified before soldering or scotch locking. For vehicle wires denoted with two colours (example; RED/GREEN) the first colour will always be the main wire colour while the second colour is the thinner trace colour on the wire.

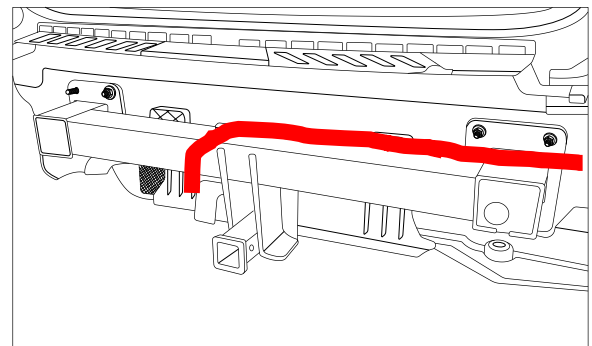
44. On the RHS drill a  $\varnothing 30\text{mm}$  next to the oval shape grommet.

**Note: Ensure the insulation is clear inside the vehicle before drilling.  
Remove sharp edges and spray rust inhibitor.**



45. From outside the vehicle route the tail harness along the towbar towards the previously drilled hole slide the grommet to desired location, secure the grommet with a cable tie and feed the tail harness connector through the hole.

**Position the trailer plug so it can be mounted once the bumper has been replaced.  
Ensure the grommet is seated properly.**







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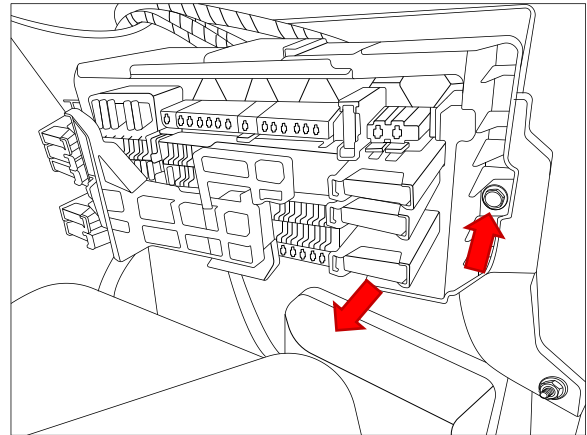
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46. On the LHS access the rear Power Distribution Module (PDM) remove the M6 bolt to gain access to the rear Signal Acquisition Module (SAM).

47. Raise the PDM from the right then lever the left side.

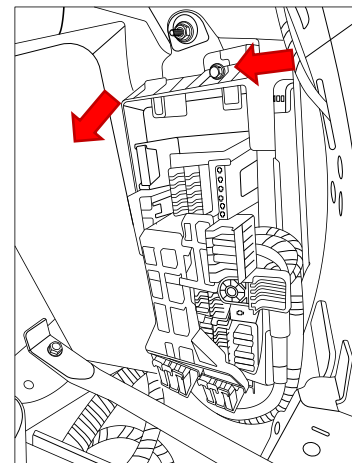
**Note: This step is for GLS for GLE proceed to step-48.**



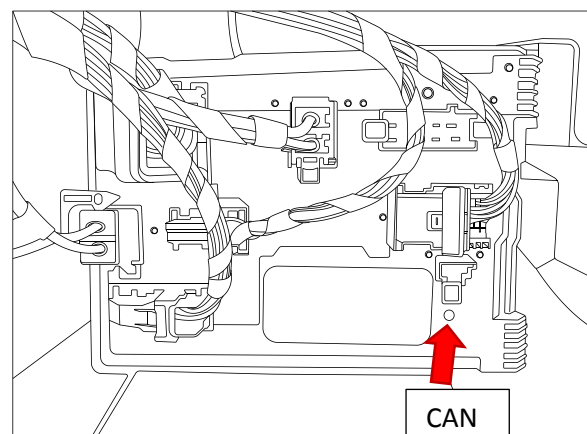
48. On the LHS access the rear Power Distribution Module (PDM) remove the M6 bolt to gain access to the rear Signal Acquisition Module (SAM).

49. Raise the PDM from the top then lever out towards the centre of the vehicle.

**Note: This step is for GLE for GLS proceed to step-46.**



50. Plug in the 4-way trailer patch harness 1 CAN connector position (B) into the rear SAM 4 - way cavity.



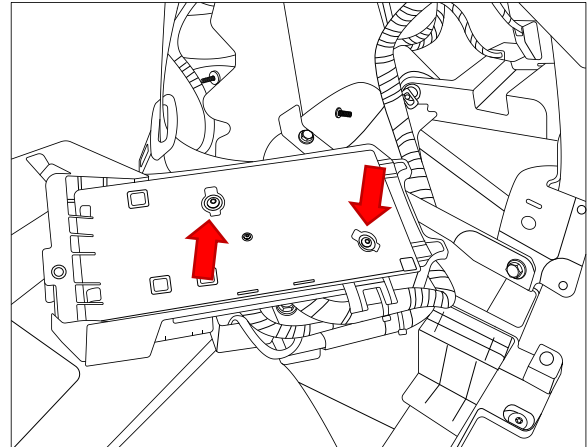


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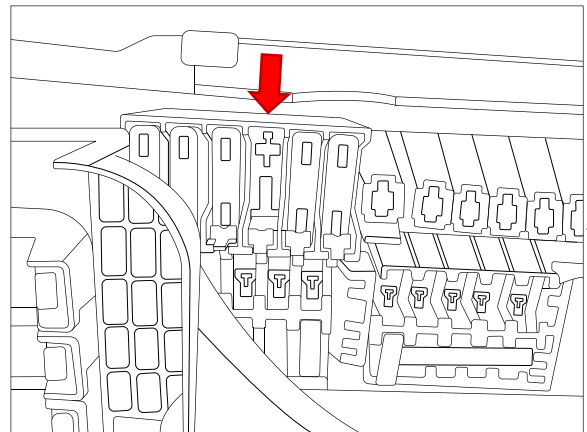
MERCEDES GLE/GLS 167 CL4

51. At the rear of the PDM remove the 2x torx screws to gain access to the rear of the white fuse holder.

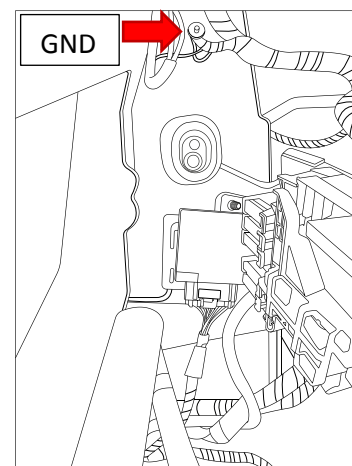


52. Insert the Red/Blue wire trailer patch harness 1 wire position (A) into the white fuse cavity indicated.

53. Insert the 20amp fuse item 3 into the fuse cavity.



54. Locate the trailer patch harness 1 ring terminal position (C) to factory ground (GND) location.





# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03352RW

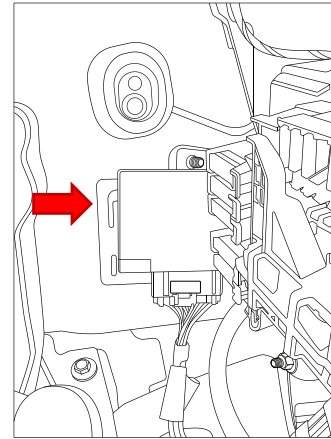
MERCEDES GLE/GLS 167 CL4

55. Apply the adhesive hook and loop tape items (4 & 5) to the trailer module WLE70021 item (2).

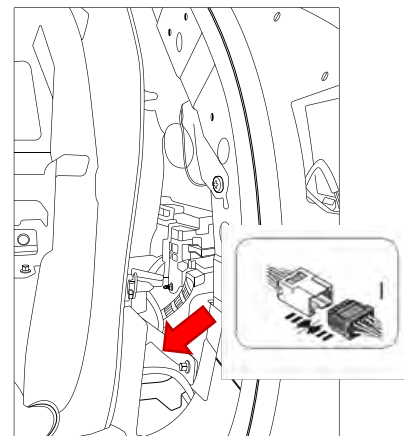
56. Plug the trailer module into trailer path harness 1 position D 24 – way connector.

57. Remove the adhesive tape backing paper and adhere the trailer module to indicated area.

**Note: Orientation of trailer module connector must be facing down.**



58. Plug the trailer patch harness 1 position (E) blue connector to the tail harness 8-way connector.



59. Refit all removed parts.

60. Next step is coding of vehicle.

61. Pay attention to the “SmartCODE” instruction page.

62. Once vehicle is coded test trailer functionality with a test board.

63. Ensure all lights work and trailer warning messages for Blind spot Assist not available and RPA are disabled.

64. Place fitting instructions in glovebox when finished.



# CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE  
VEHICLE'S GLOVEBOX AFTER INSTALLATION

**THANK YOU FOR PURCHASING HAYMAN REESE.  
WITH CORRECT MAINTENANCE AND CARE THIS PRODUCT WILL PROVIDE A  
LIFETIME OF TROUBLE-FREE OPERATION.**

## **i** TOWBAR MAINTENANCE AND CARE:

1. Hayman Reese recommend that the towbar LUG or TBM (tow ball Mount) Pull Pin and R-clip are removed and stored when not in use. Removal of LUG or TBM (tow ball mount) is advisable when not in use to assist with any of the following.
  - Ensure rear number plate is not obscured.
  - Allow maximum available departure angle and prevent any potential interference.
  - Prevent possible interference with vehicles reverse sensors or camera detecting a tow ball mount as an obstruction during reversing.
  - Removes towball mount as an obstruction for when moving around the rear of the vehicle.
2. Hayman Reese recommends routine inspection of your towbar to ensure trouble free towing.
  - Bolt security and tension should be regularly inspected and checked for correct tension. Replace any worn or defective parts with suitable grade & class fasteners. Inspection should be requested to coincide with vehicle major services.
3. It is the owner's responsibility to ensure towing and down ball weight capacities of the towing vehicle are not exceeded.
  - Towing and down ball weights allowable may differ according to model variations. Please refer to owner's manual or vehicle dealer to confirm exact rating for your vehicle model variant.
  - It is not uncommon for the vehicle tow rating to differ from the towbar rating. When this occurs, the lesser rating must be adhered to.
  - For vehicles fitted with enhanced vehicle functions that may be altered/changed when towing i.e Trailer sway mitigation, blind spot detection, adaptive cruise control etc. Please consult owner's manual to understand changes enabled when towing and after towing.

## **i** WARRANTY INFORMATION:

Hayman Reese Towbars are covered by a Lifetime Warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

For further details please visit [www.haymanreese.com.au/warranty](http://www.haymanreese.com.au/warranty) or contact customer service on 1800 812 017 or [info@haymanreese.com.au](mailto:info@haymanreese.com.au).



# CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION

## HAYMAN REESE SMART PIN

Your Hayman Reese towbar is equipped with Smart Pin technology to help reduce towbar tongue rattle in most driving conditions. Please ensure below instructions are understood and routine maintenance is carried out to ensure best towing experience.

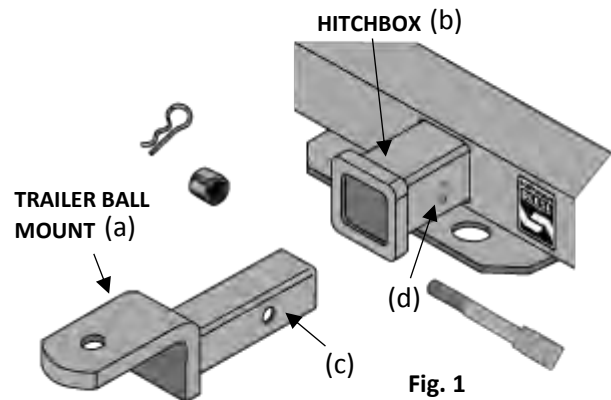
**i** Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- Before towing, ensure R-Clip is properly installed and Smart pin nut is installed and tensioned. Replacement parts are available from your Hayman Reese Distributor.

## TOWBALL MOUNT REMOVAL/INSTALLATION

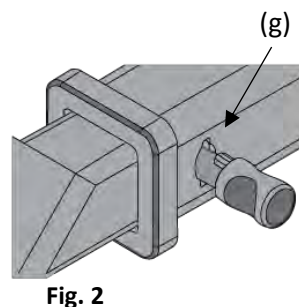
### STEP 1

Insert Trailer Ball Mount (TBM) (a) into towbar hitchbox (b), aligning hole in TBM shank (c) with hole in hitchbox (d) (Fig. 1)



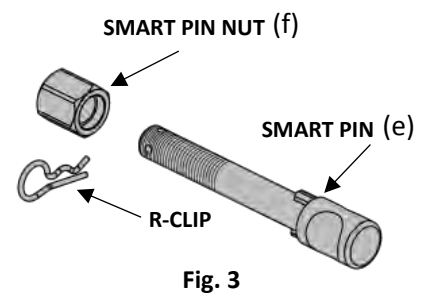
### STEP 2

Insert Smart Pin (e) through hole in hitchbox and hole in TBM shank (g); ensure the locators are inserted into the notches in the hitchbox (Fig. 2)



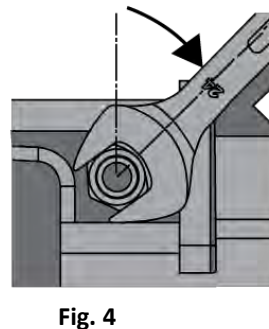
### STEP 3

Screw Smart Pin Nut (f) onto Smart Pin (g); tighten Smart Pin Nut until finger tight, ensuring TBM is restrained from up and down movement.



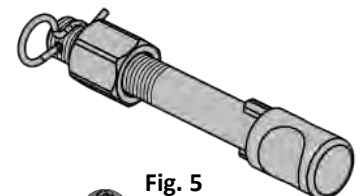
### STEP 4

Tighten Smart Pin Nut by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig. 4).



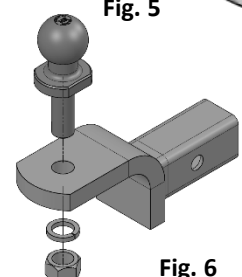
### STEP 5

Install Smart Pin R-Clip through the hole that provides best clearance or easiest access. (Fig. 5)



### STEP 6

Install towball onto TBM and tighten to **350 Nm** using a calibrated torque wrench (Fig. 6).



# Appendix



**WARNING:** This vehicle requires a system setting to ensure the trailer wiring and control module are correctly recognised. This process (referred to as 'coding') must be carried out to enable correct vehicle functionality when trailer is connected. Towing features enabled by correct control module and coding support OE functionality as set by OE manufacturer. Please read the vehicles owner's manual for proper operation and understanding.

Coding can be carried out using the Hayman Reese SmartCODE (HRSC) using the following steps. Note, if HRSC is unavailable, vehicle coding can be carried out by OE manufacturer as needed.

Before you start:

- **Ensure the HRSC software is up to date using the HAYMAN REESE SMARTCODE PC APP.**
  - **Ensure the vehicle battery is fully charged**
  - **Use of a battery support unit (BSU) is advised during the coding process.**
  - **Ensure towbar, wiring loom and ECU are correctly installed as per Hayman Reese fitting instructions.**
1. Locate the OBD2 port under the drivers footwell on the right-hand side and plug in the HRSC.
  2. Close all doors and turn the ignition on
  3. Follow the directions on the screen of the HRSC
  4. Once the vehicle has been coded successfully proceed to the "clear codes" tab
  5. Remove disconnect HRSC from OBD2 port.
  6. Check the dash to make sure there are no warning faults.
  7. Check the operation of trailer lights and ensure the Reverse Park Assist (RPA) is disabled and 'trailer on' icon is active where available.

For technical support and further information on Hayman Reese SmartCODE tool and coding process contact your nearest Hayman Reese stockist.

Australia: 1800 812 017

New Zealand: 0800 237 886