



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03390RW

MERCEDES GLA200 H247



PRODUCT DETAILS:

Part Number:	03390RW	Maximum Towing Braked:	2000	kg
ECU Number:	WLE70015	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1800 mm	Maximum Static Ball Load:	200	kg
TBM/Lug Part Number:	21387			
Wiring Part Number:	WLL90028			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Hayman Reese SmartCODE Solution Required:	YES
Wiring Installation Time:	60 Mins.	RPA Disable/Other:	YES
Total Installation Time:	120 Mins.		
Bumper Cut Required:	Yes		

Note:

- 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).

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).

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

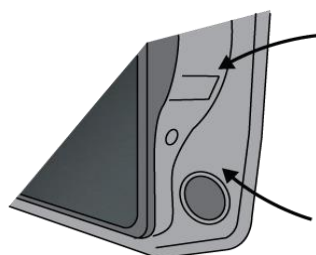
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

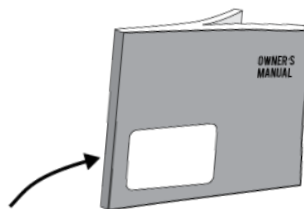
Product Labels

- 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



CORRECT

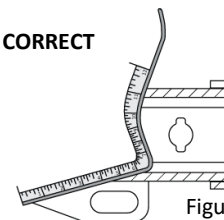


Figure 1

INCORRECT

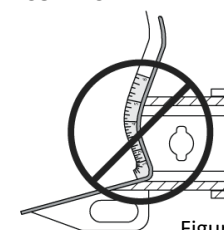


Figure 2



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.

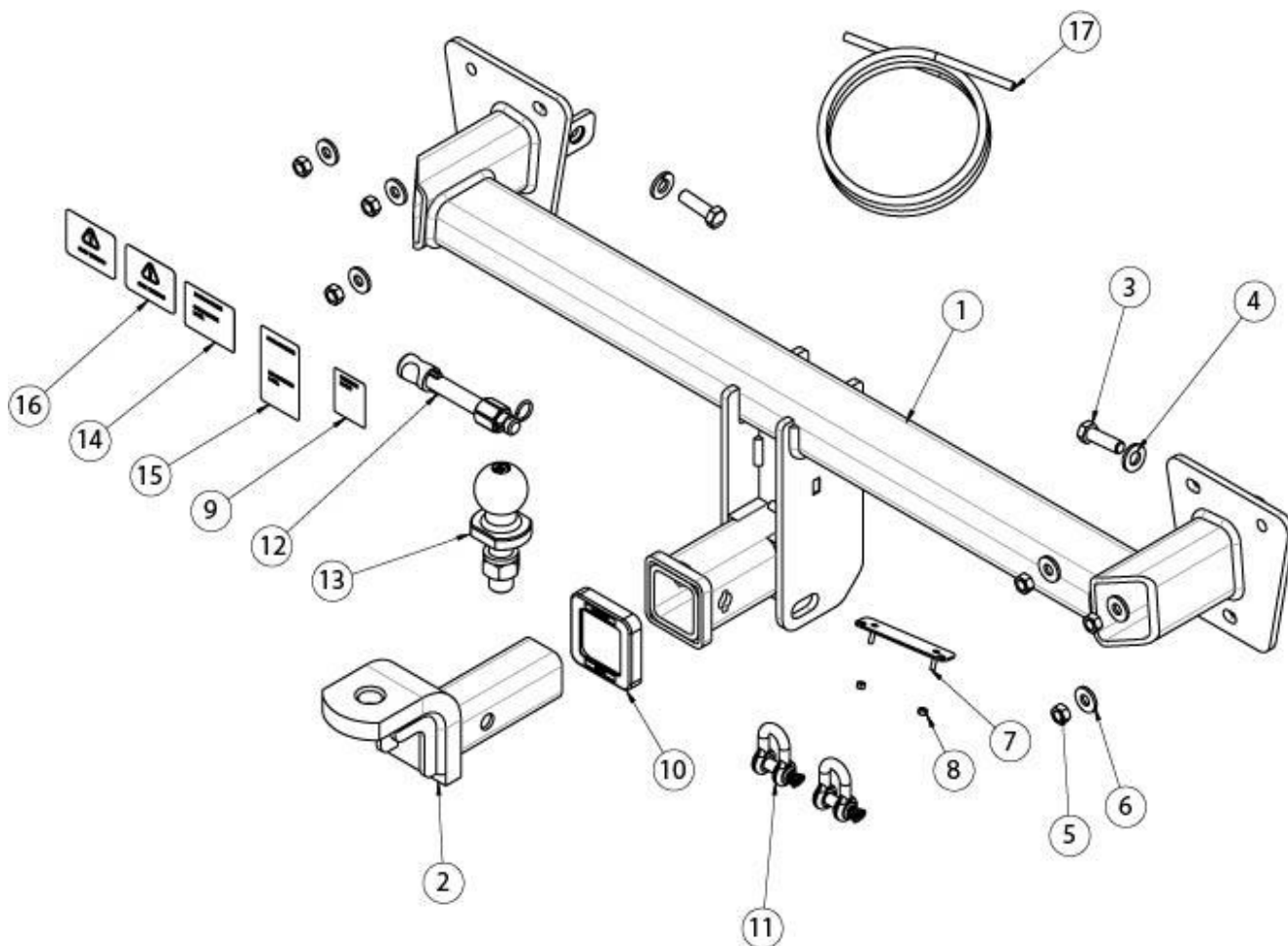


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i TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	MERCEDES GLA WELDED ASSEMBLY	1
2	TRAILER BALL MOUNT	1
3	SET SCREW HEX HD M12x40x1.75P	2
4	WASHER PLAIN M12x27x3	2
5	NUT HEX HD M10x1.5P	6
6	WASHER PLAIN M10x25x3	6
7	PLUG BRACKET	1
8	NUT NYLOC HEX HD M4x0.7P	2
9	HAYMAN REESE LOGO STICKER	1

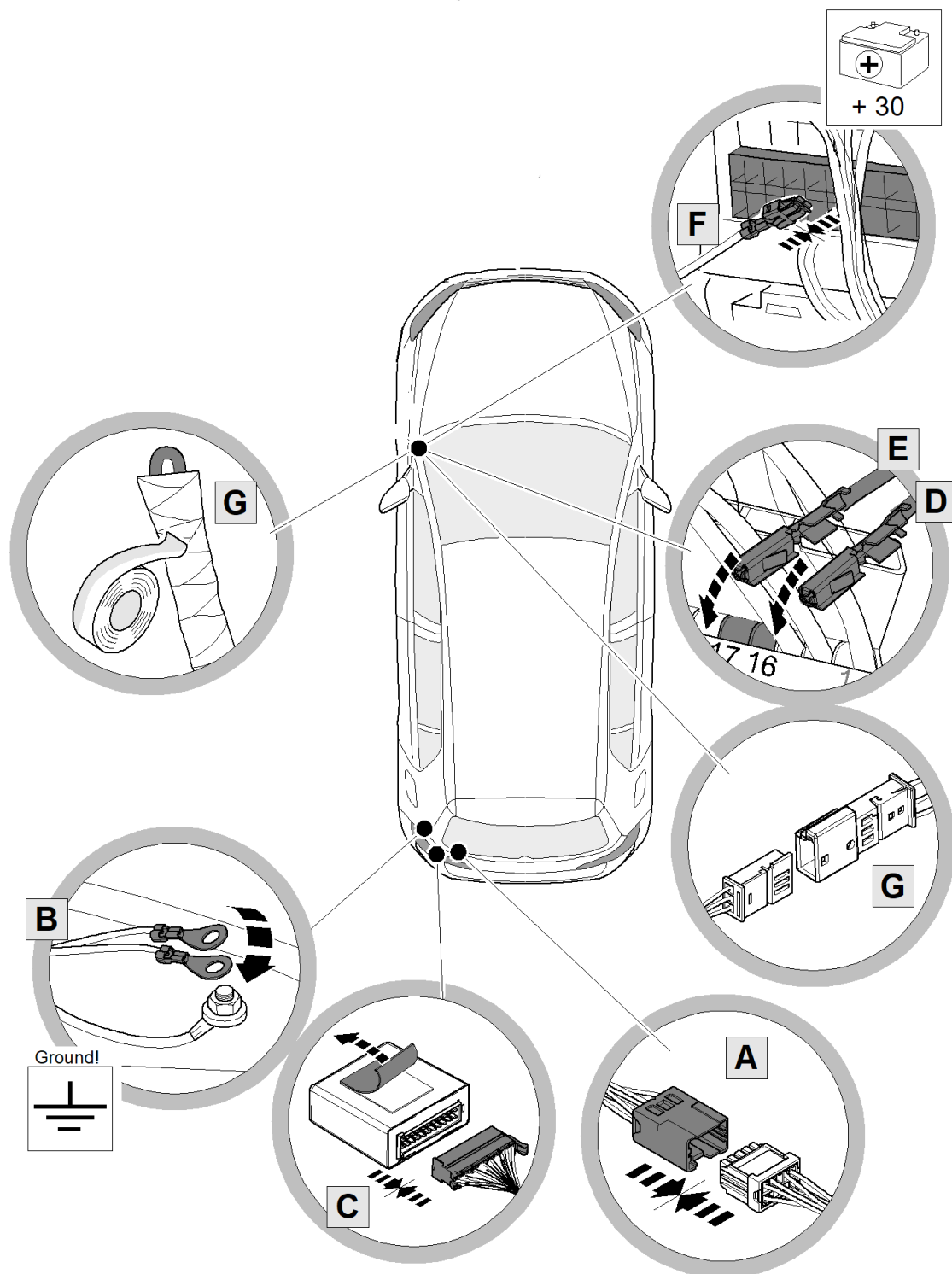
ITEM	DESCRIPTION	QTY
10	HITCH BOX COLLAR COVER	1
11	"D" SHACKLE 10mm	2
12	SMART PIN GOLD	1
13	TOWBALL 50mm	1
14	COMPLIANCE LABEL	1
15	LOAD RATING LABEL	1
16	CAN MODULE WARNING LABEL	2
17	WIRE LOOM	1



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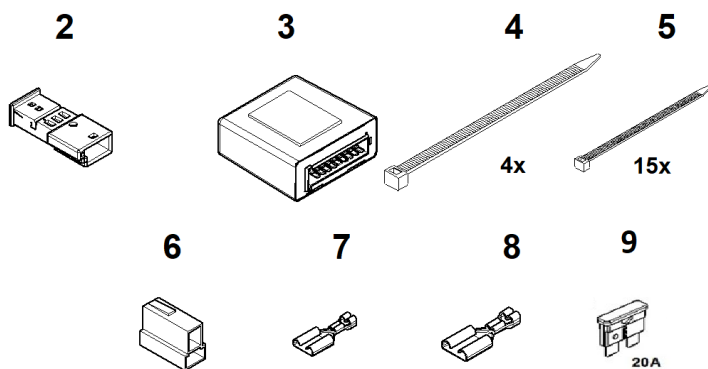
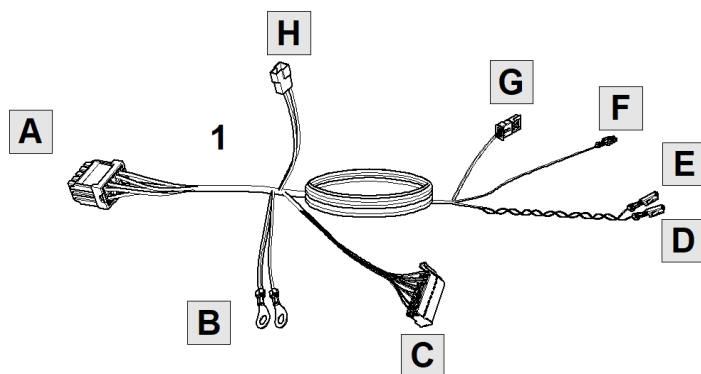




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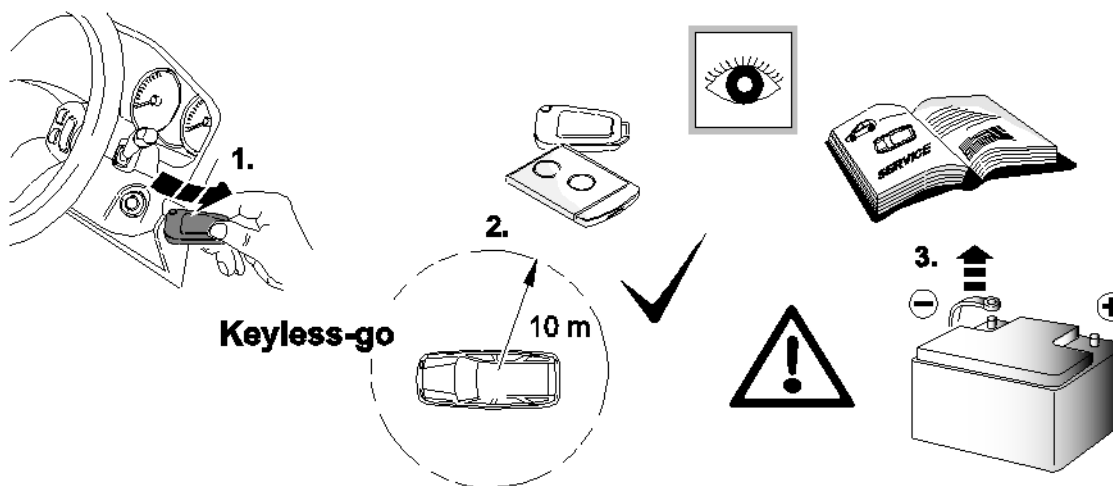
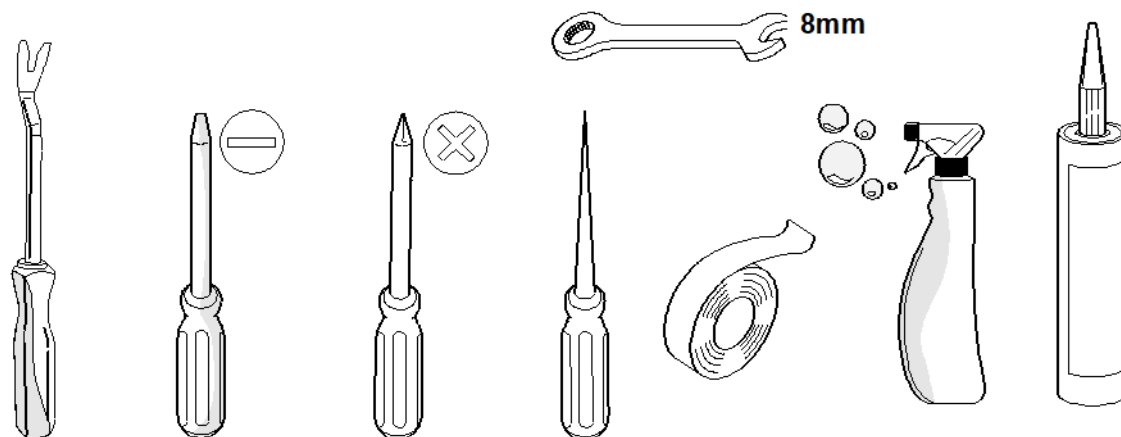
ITEM	DESCRIPTION	QTY
1	Main wire harness	1
2	3P socket	1
3	ECU (WLE70015)	1
4	Cable tie – Large	4
5	Cable tie – Small	15
6	Brake Prep 2P socket	1
7	Terminal – Small	1
8	Terminal – Large	1
9	Fuse 20A	1



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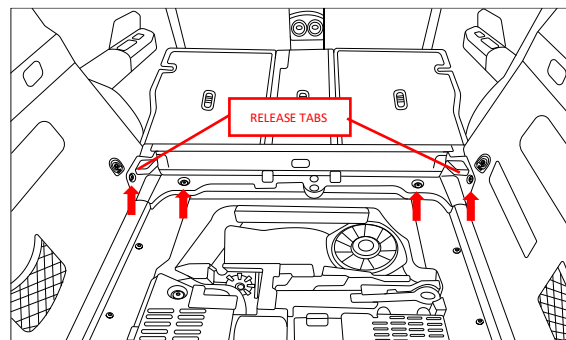


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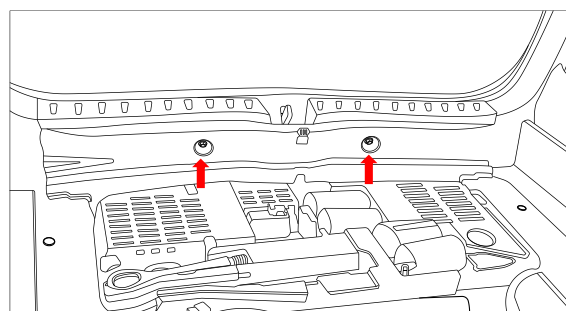
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1. Remove cargo cover and floor liner.
2. Press the 2x outer release tabs then slide upward to remove the plastic cover.
3. Remove the 2x screws, 2x nuts then remove the plastic partition.



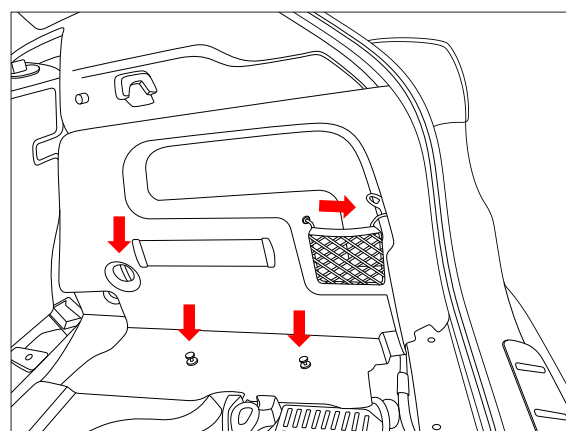
4. Remove the 2x bolts and then pull upward to the boot latch trim.



5. Remove 2x anchor points and 2x scrivet clips. Remove the lower trim.

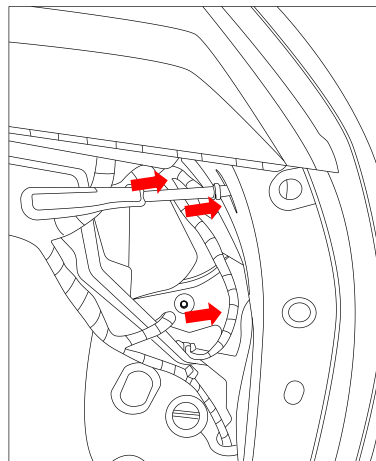
Note: RHS trim dislodge and disconnect Aux socket 2-way prior to removing trim.

Repeat to other side.

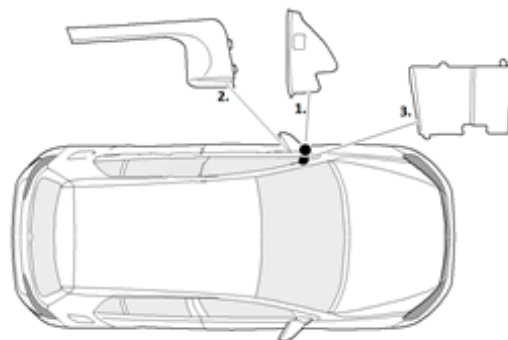


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6. Remove 3x nuts and pull the tail light rearward.

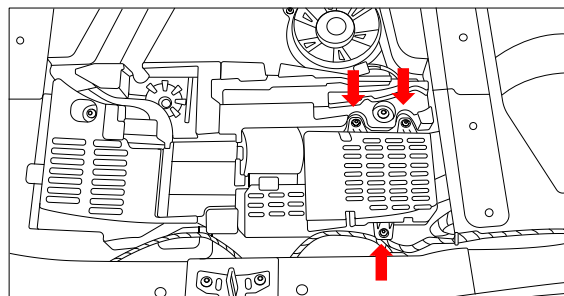
Repeat for other side.



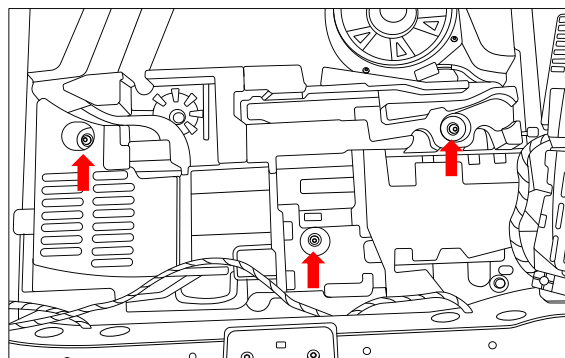
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7. Remove the Lower A-Pillar trim.
8. Remove the LHS front sill trim.
9. Peel up the passenger footwell carpet to gain access to the Interior Fuse Relay Module & BCM.
10. Remove the 3x M10 nuts that secures Interior Fuse Relay Module & BCM
11. Open the front fuse cover.



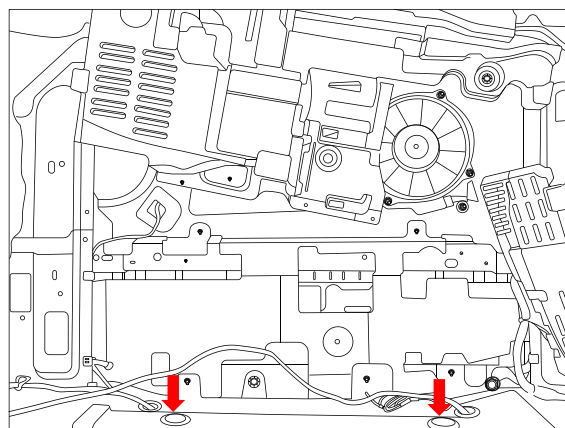
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12. Remove 3x nuts and lift off the electric module.



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13. Remove 3x plastic nuts and lift off the plastic cover.

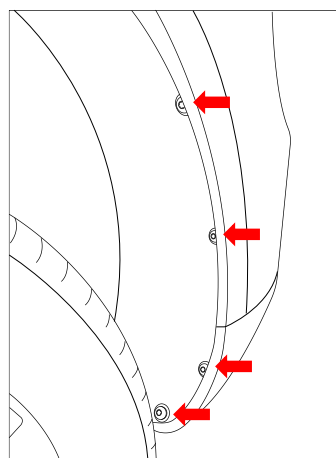


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14. Remove 2x nuts securing the bumper.



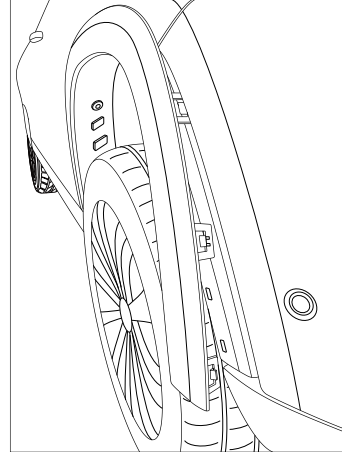
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15. Remove 4x scrivet clips.

Repeat for other side.



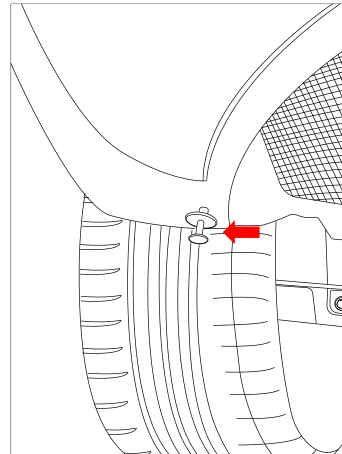
16. Unclip the plastic wheel arch.

Repeat for other side.

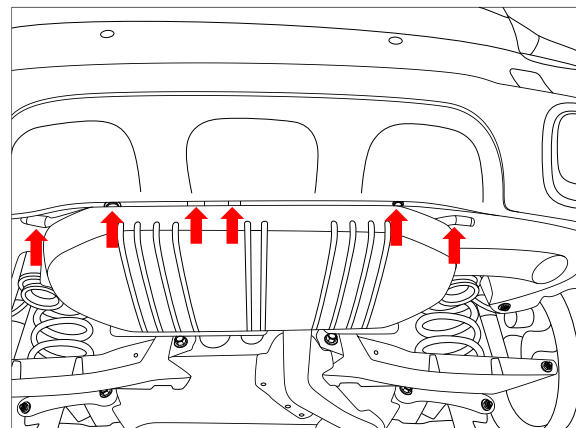


17. Remove 1x scrivet clip behind the wheel.

Repeat for other side.



18. Remove 6x screws under the bumper.





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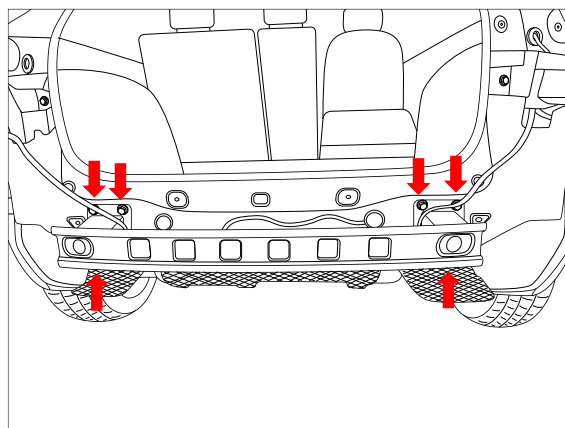
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19. Unclip the bumper from the car.
Disconnect the sensor loom from the bumper.
Remove the cable on the impact beam.
Remove 6x nuts and discard the impact beam.

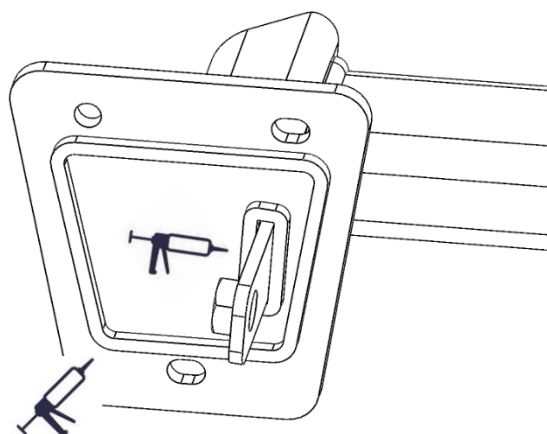
NOTE

Disconnect the bumper sensor wire loom located on LHS of the bumper.

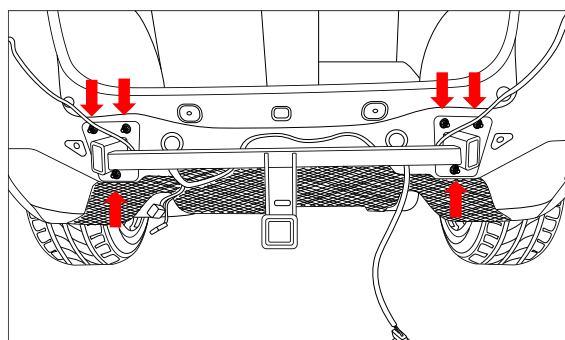


20.  Apply silicone on the mounting plate as Shown. This will prevent any water enter in the vehicle electric.

Repeat for the other side.



21. Fit the towbar to the vehicle.
Loosely tighten 6x nuts and 6x washers



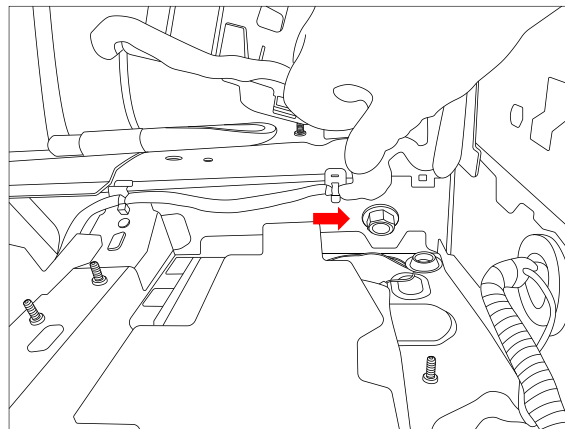
22. Inside the cargo area, remove the rubber grommet and discard.
Loosely tighten 1x bolt and 1x washer.

Repeat to other side.

Torque fastener as follow:

M10 x 1.5 = 60 Nm

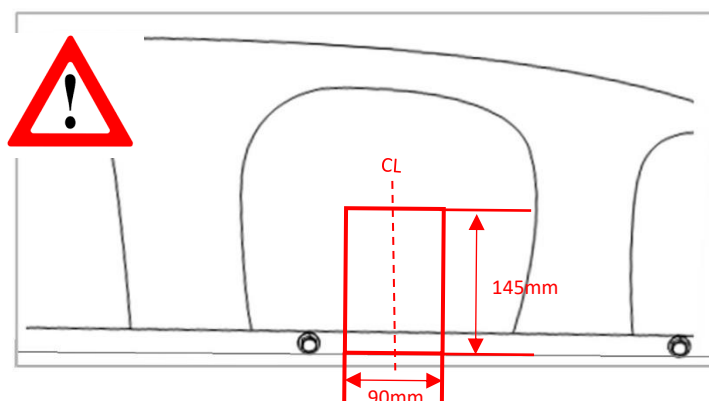
M12 x 1.75P = 109 Nm



23. **CAUTION NOT CUT INTO THE FOOT WIPE SENSOR CABLE.**
MOVE TO THE FOOT WIPE SENSOR CABLE TO ONE SIDE BEFORE CUTTING.

Place masking tape on the bumper outer skin
Mark and cut out an area 90mm x 145mm as shown.

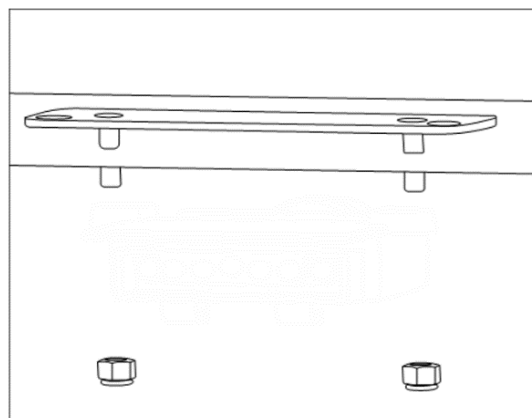
Reroute the foot wipe sensor cable around the cut-out area.



24. Locate the plug bracket and ensure the harness cable length is long enough.
Drill 2x ø5mm holes 69mm apart

Remove all swarf and rough edges.

Place the plug bracket on the bumper.

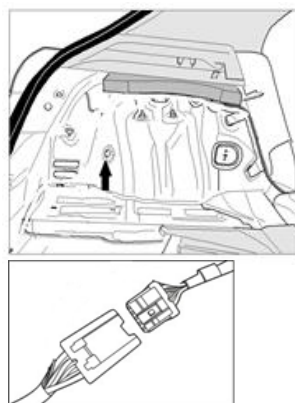




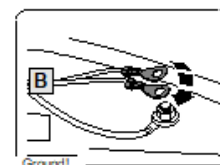
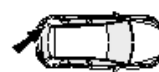
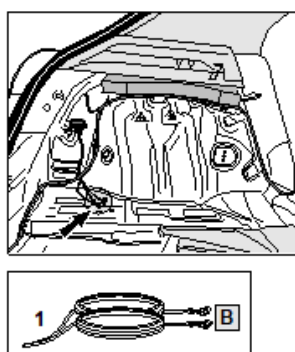
IMPORTANT

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.

25. Locate and remove the $\varnothing 30\text{mm}$ grommet on the LHS wheel arch.
26. From outside the vehicle feed the tail blue connector through the hole and slide the grommet into desired location.
27. Secure the grommet with supplied cable tie.
- Note: ensure the grommet is seated properly.**
28. Connect the tail blue connector to the trailer patch mating connector (A).



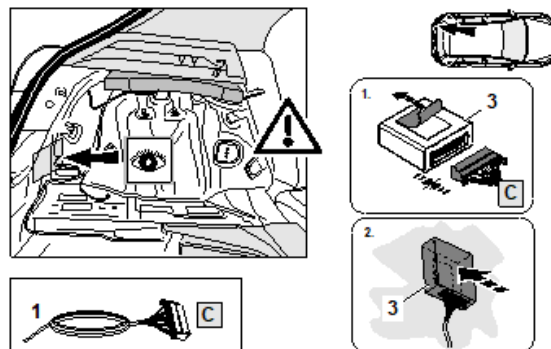
29. Connect the trailer patch ring terminals (B) to the factory ground point.



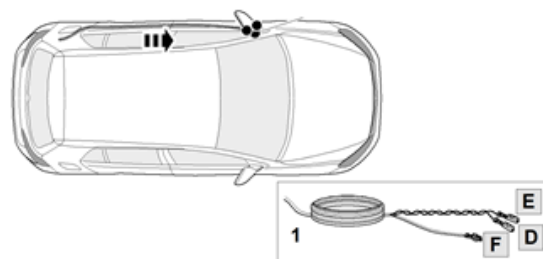
30. Connect the trailer patch ECU 18-way connector (C) to ECU (WLE70015).

31. Remove the adhesive tape protector off the ECU and place the ECU on a flat surface.

Note: Apply pressure to ECU and ensure good adhesion.



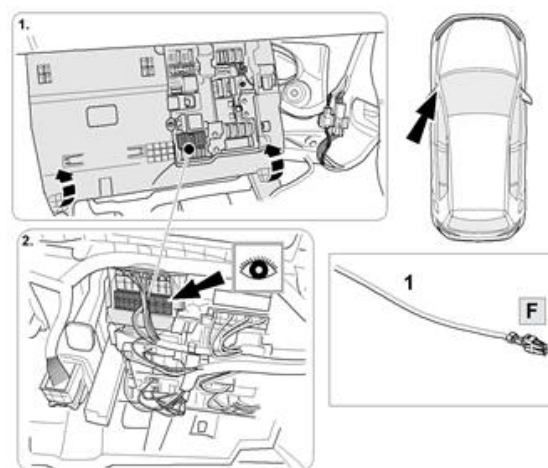
32. Route the Power and CAN wires (E, F, D) towards the LHS front passenger footwell.



33. In the passenger footwell take note of empty fuse cavity F155 Interior Fuse Relay Module & BCM.

34. Flip the Interior Fuse Relay Module & BCM from the top downwards.

35. Insert the Red power wire (F) into F155 cavity.
Ensure the terminal clicks into place.



36. Locate the 20-way lever lock white CAN connector and release the locking lever.

Note: This is located on the LHS and is the smallest connector on the BCM.

37. Slide the outer white shell to expose the black inner connector.

Refer to CAN Connection (Fig 1).



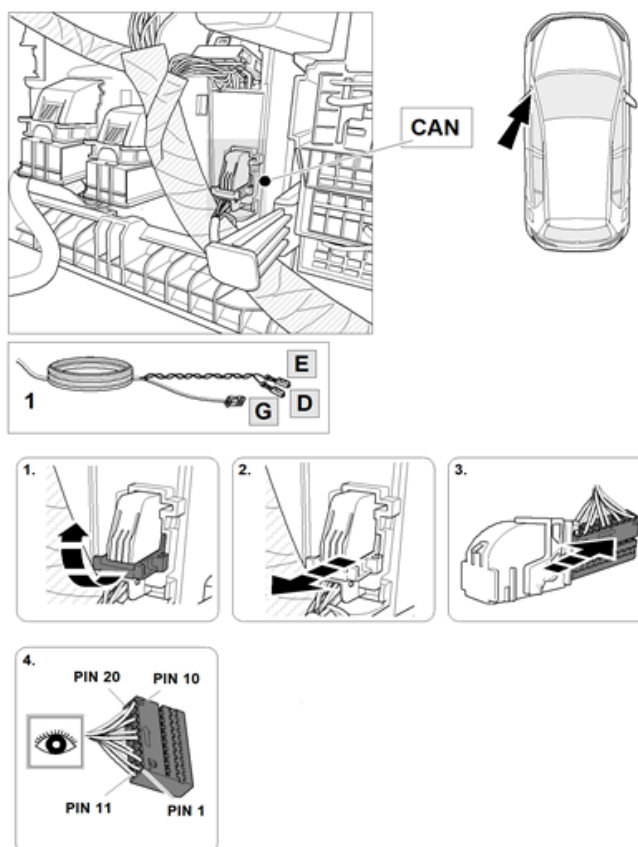
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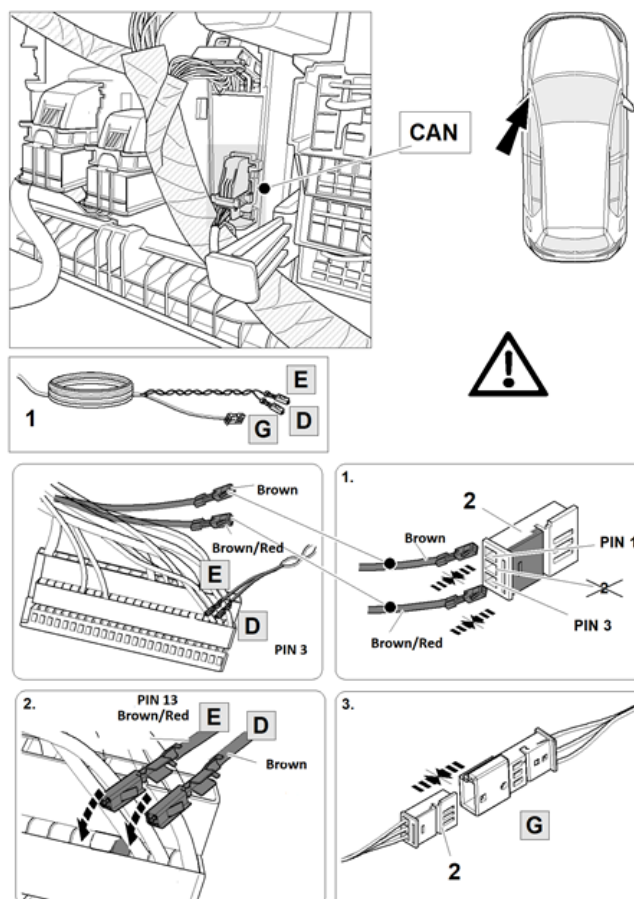
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38. Using a small jewellers screwdriver press down on the terminal tab to release following terminals:
Pin 3 = Brown
Pin 13 = Brown/Red
Note: Ensure the terminals do not contact each other.
39. Locate the 3-way black F. Connector (item 2) and insert the wire as per below.
Pin 1 = Brown
Pin 3 = Brown/Red
40. Locate the trailer patch Brown, (D) Brown/Red (E) wires and insert into the previously removed cavities as per below.
Pin 3 = Brown
Pin 13 = Brown/Red
41. Reassemble the vehicle CAN 20-way connector and reinsert into BCM.
42. Plug the trailer patch 3-way connector (G) to the mating part.
Refer to CAN Connection (Fig 2).
43. Flip the Interior Fuse Relay Module & BCM, insert the 20-amp fuse (item 9) into F155 cavity.

- CAN connection (Figure 1)



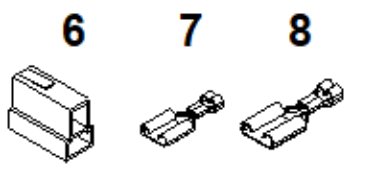
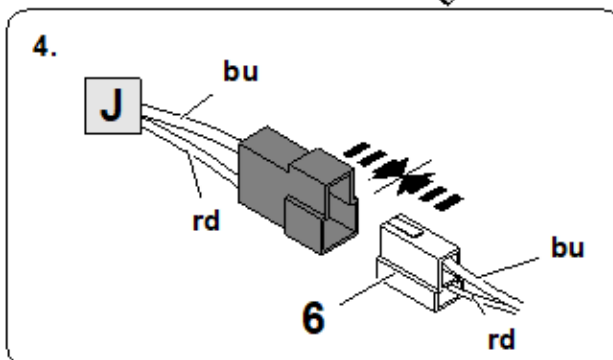
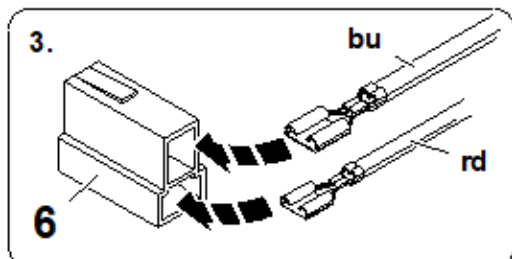
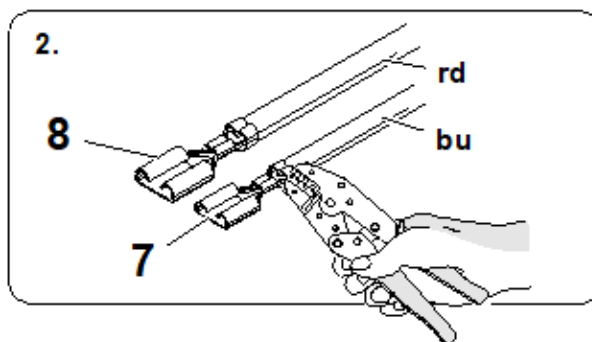
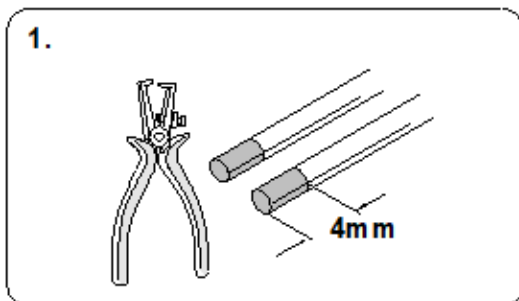
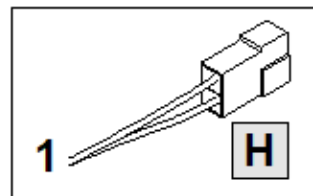
- CAN connection (Figure 2)



44. Ensure the little LED light on the top of Trailer ECU is green. (If no light turn Ignition on to wake up CAN)
45. Secure harness with cables.
46. Replace all removed parts. (1-19 in reverse)
47. Test the trailer patch light functions.
48. The next step is coding of the vehicle. Pay attention to the "SmartCODE" instruction page.
49. Once vehicle is coding test the functionality using a test board.
50. Place fitting instructions in glovebox after fitment.



Trailer Brake Preparation





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 or contact customer service on 1800 812 017 or 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.

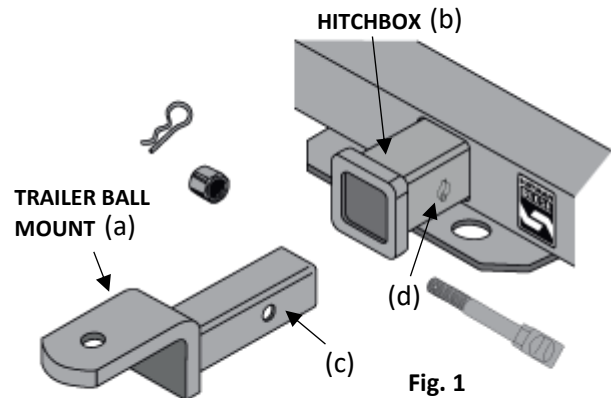
i Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- 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

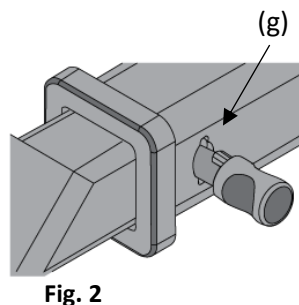
STEP 1

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



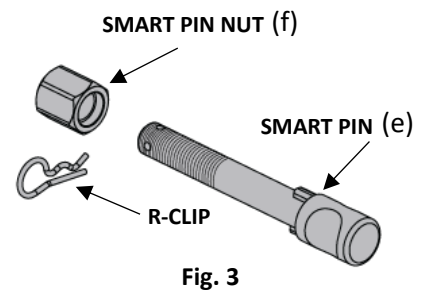
STEP 2

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)



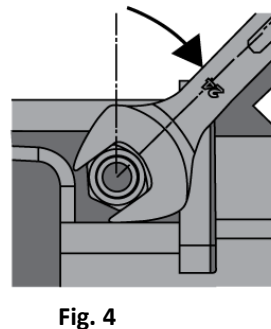
STEP 3

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.



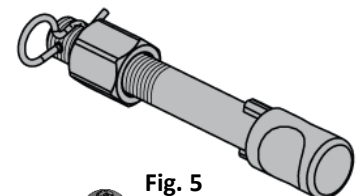
STEP 4

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



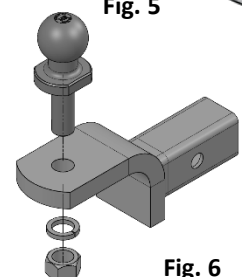
STEP 5

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