



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03219RW

Audi A4 B9 CL4



PRODUCT DETAILS:

Part Number:	03219RW	Maximum Towing Braked:	1800	kg
ECU Number:	WLE70009	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200 MM	Maximum Static Ball Load:	180	kg
TBM/Lug Part Number:	21248			

FITTING DETAILS:

Towbar Installation Time:	80 Mins	Hayman Reese SmartCODE Solution Required:	YES
Wiring Installation Time:	50 Mins	RPA Disable/Other:	YES
Total Installation Time:	130 Mins	Note:	
Bumper Cut Required:	Yes		

- Electric Brake = Blue wire taped back next to the Blue connector
- RPA automatically disables when vehicle is coded
(see Appendix for added information)



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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).

CORRECT

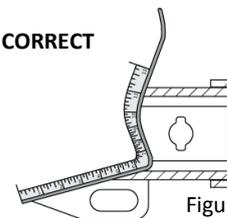


Figure 1

INCORRECT

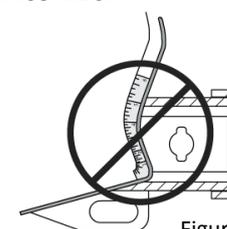


Figure 2

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

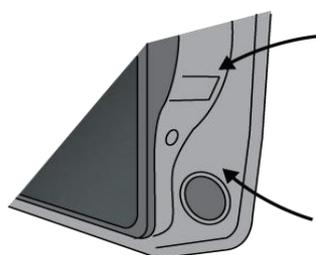
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

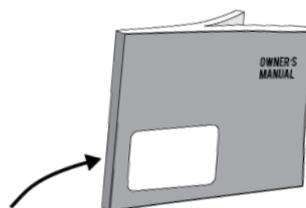
Product Labels

- 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.

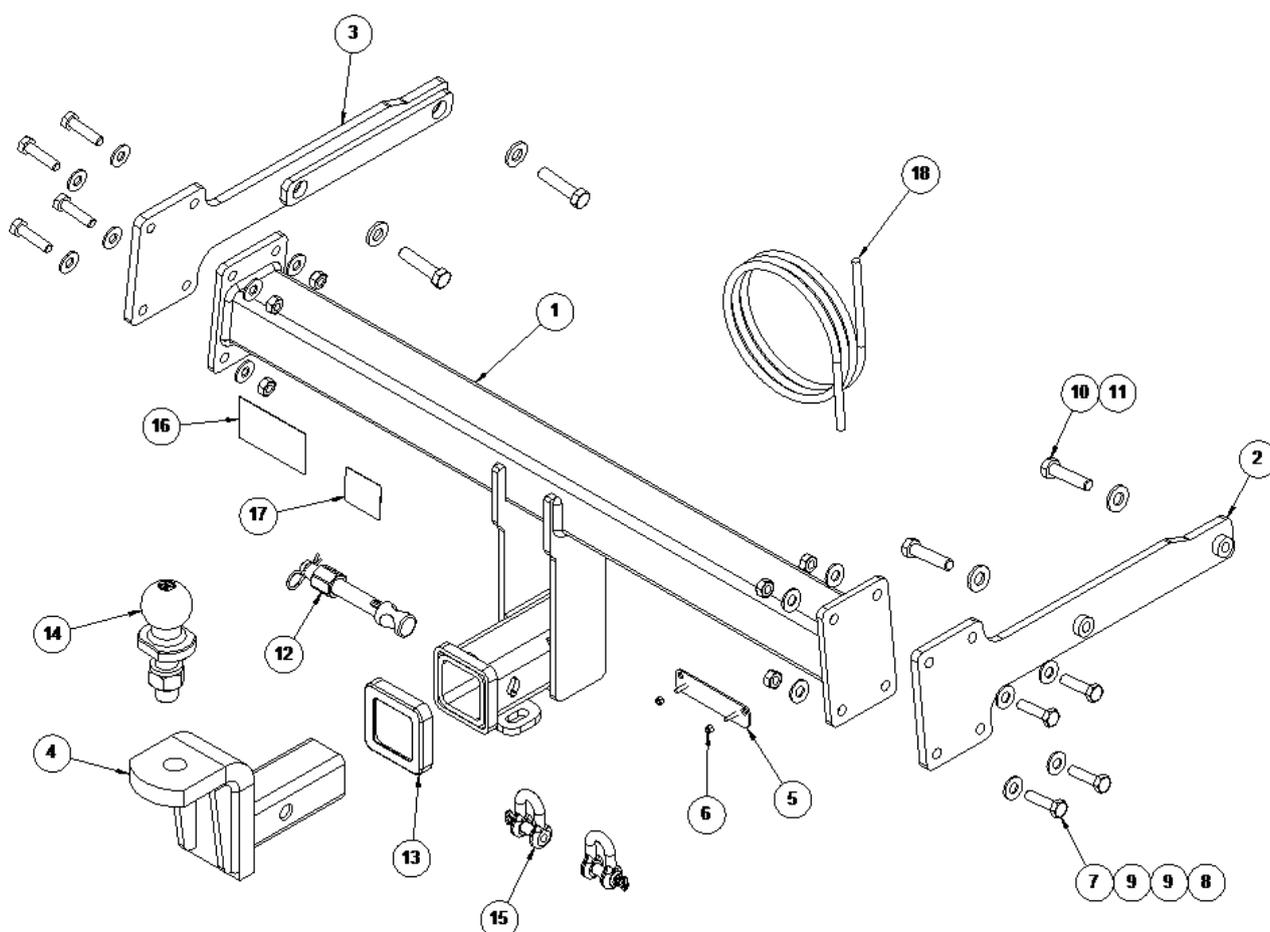


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i TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	WELDED ASSEMBLY	1
2	SIDE ARM RHS	1
3	SIDE ARM LHS	1
4	TRAILER BALL MOUNT	1
5	PLUG BRACKET	1
6	NUT NYLON LOCK HEX HD M4X0.7P	2
7	SET SCREW M10x1.25x40	8
8	NUT HX M10-1.25 Z/P	8
9	WASHER FLAT M10 X 23 X 2 Z/P	16

ITEM	DESCRIPTION	QTY
10	SET SCREW M12-1.25x50 GR 8.8	4
11	WASHER PLAIN 1/2X1-1/8X16G	4
12	SMART PIN ASSY CLASS 4 - GOLD	1
13	HITCH BOX COLLAR COVER	1
14	TOWBALL 50MM FLAT CHROME 3500	1
15	10mm "D" SHACKLE	2
16	ACRYLIC COMPLIANCE PLATE	1
17	HAYMAN REESE LOGO STICKER	1
18	WIRING LOOM	1

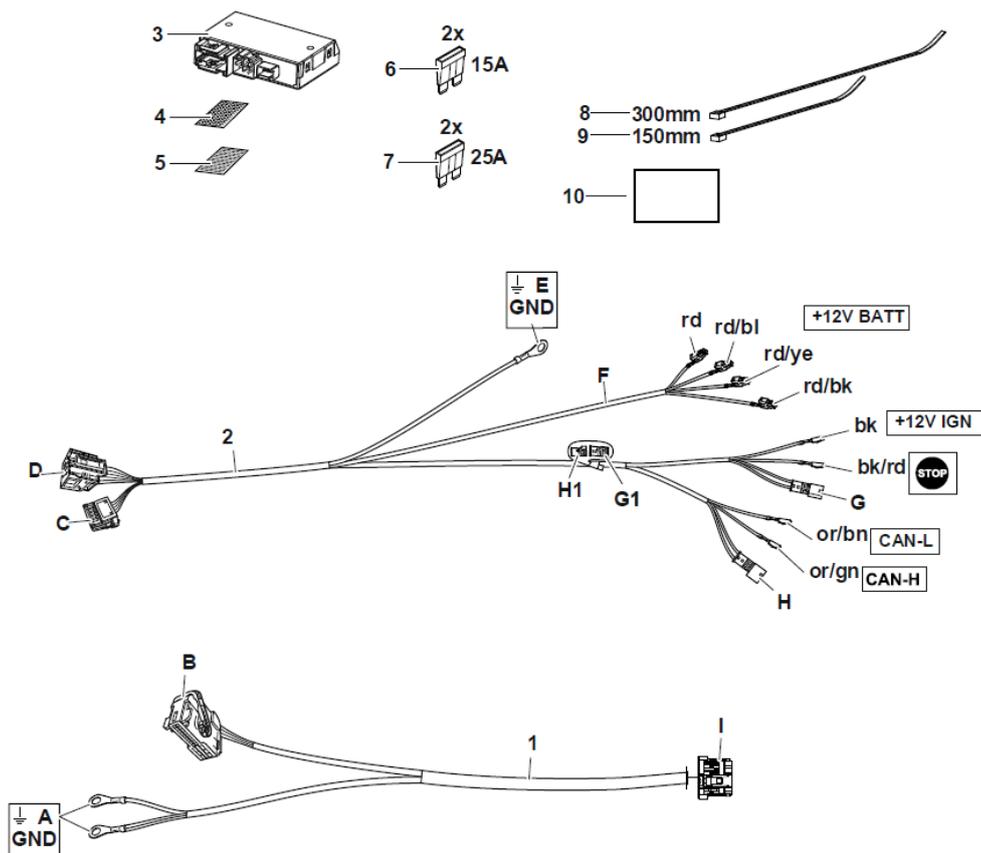


TOWBAR INSTALLATION INSTRUCTIONS

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WIRING ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	OUTPUT HARNESS	1
2	CAN / POWER INPUT HARNESS	1
3	ECU WLE 70009	1
4	HOOK TAPE	1
5	LOOP TAPE	1
6	15amp BLADE FUSE	2
7	25amp BLADE FUSE	2
8	300mm CABLE TIE	3
9	150mm CABLE TIE	5
10	CODED TRAILER MODULE WARNING LABEL	1



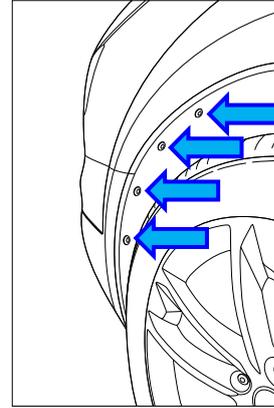
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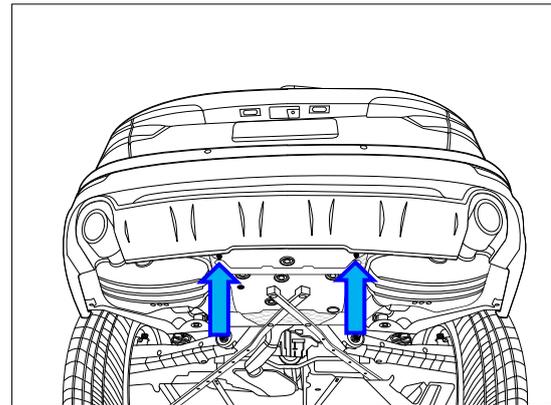
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1. Remove the keys from the vehicle.
2. Disconnect the battery negative terminal.
3. Remove 4 x torx head screws from behind mudflap.

Repeat Step 3 for opposite side.

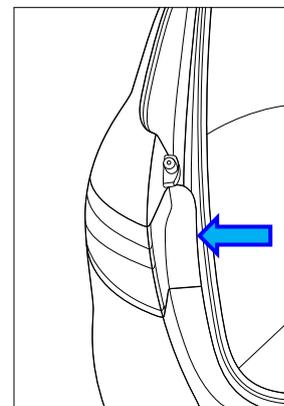


4. Remove 2 x plastic hex head nuts from underside of bumper near the centre.



5. Pop out plastic trim surrounding tail light.

Repeat for opposite side.





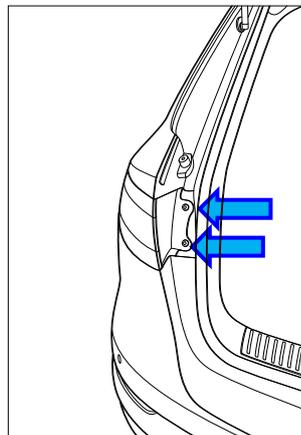
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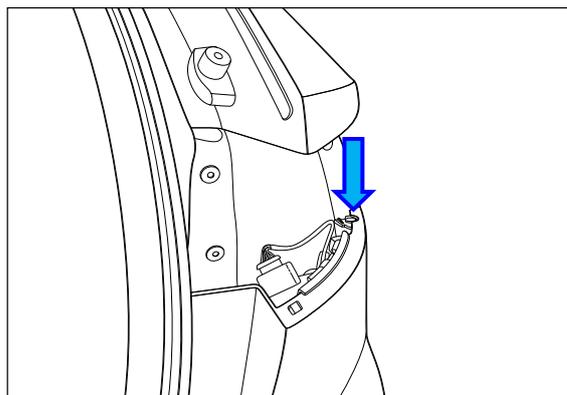
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6. Remove 2 x torx head screws securing taillights and gently pull light rearward to remove. Disconnect any wiring attached to taillight and put aside.

Repeat for opposite side.

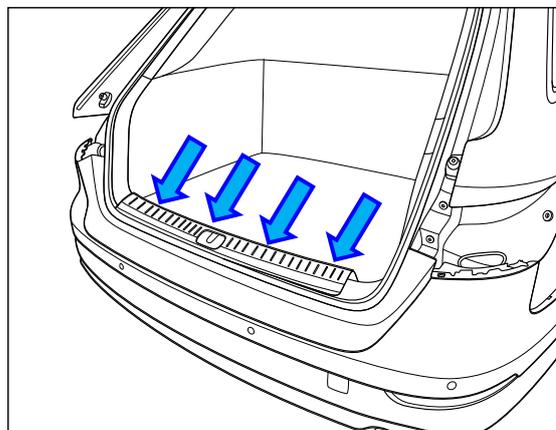


7. Gently pry out 2 x pins on the top corners of the bumper.



For Wagon and Sedan variants:

8. Pop out 4 x scrivenets from inside boot securing plastic trim to the tire well. Remove trim and set aside.
9. Remove floor covering.
10. Remove spare tire.



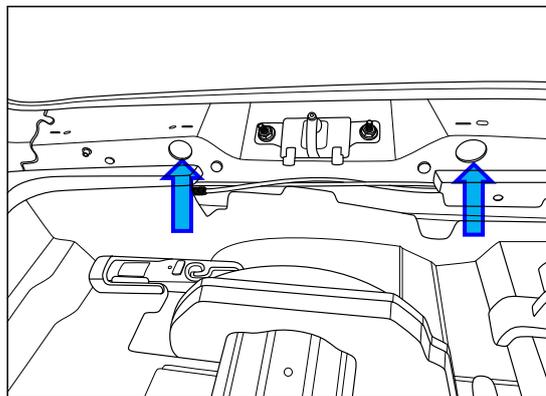


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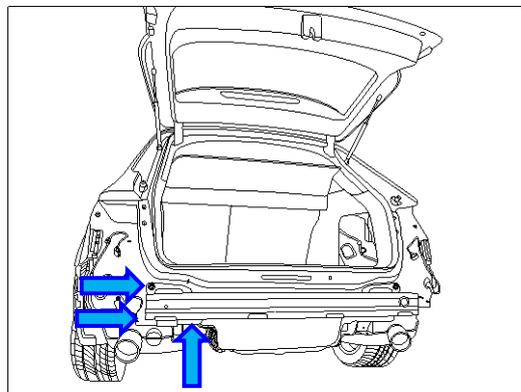
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11. Remove 2 x screws from inside of boot securing bumper to vehicle.



12. Carefully peel back bumper from corners and remove, ensuring to disconnect wiring harness from inside boot on the LHS.

13. Remove impact beam via 6 x hex head bolts (3 x LHS, 3 x RHS) and 2 x nuts located inside boot.





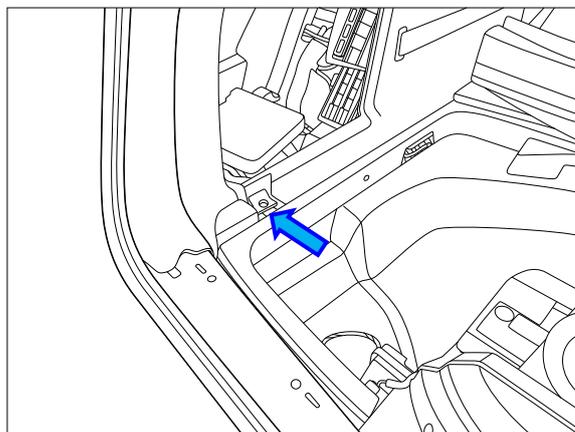
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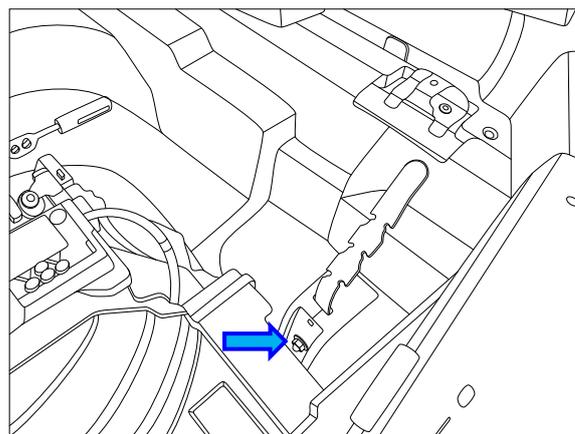
14. Remove 2 x anchors inside boot via 1 x torx head screw located underneath plastic cap.

Repeat for opposite side.



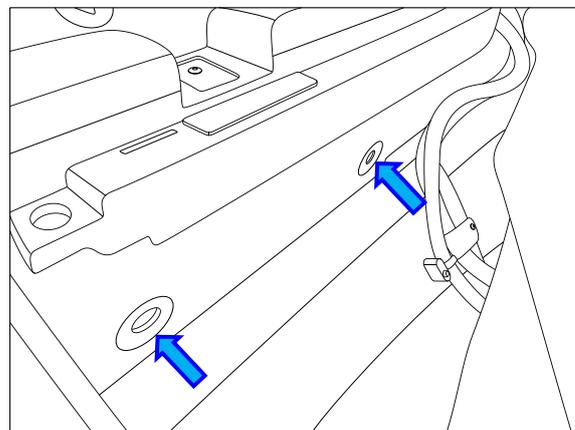
Wagon Only:

15. Remove tire compressor and plastic bracket via 1 x hex head nut inside boot.



16. Pull back boot trim to reveal chassis rail side and remove 2 x plastic covers.

Repeat for opposite side.





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- 17.** Insert side arms into chassis rail and align holes in chassis with holes in the side arm.

Loosely secure with 2 x M12 bolts complete with 1 x washer per bolt.

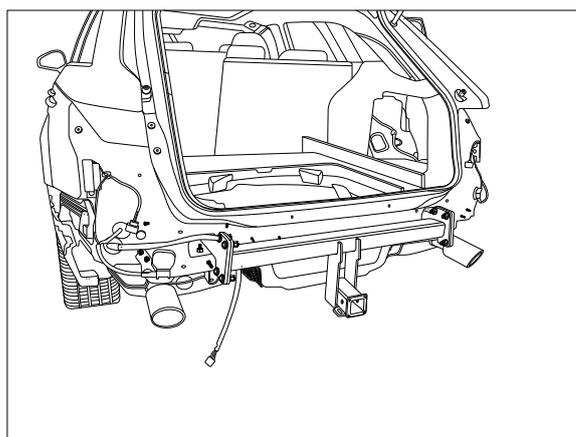
Repeat for opposite side.

- 18.** Loosely secure centre-welded section to side arms via 4 x M10 bolts, complete with 2 x washer and 1 x nut per bolt.

Tighten fasteners to torques listed below:

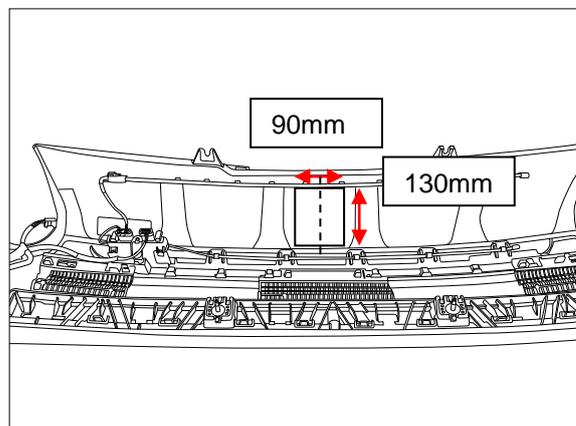
M12- 89 N.m

M10- 48 N.m



- 19.** Partially unclip the foot-swipe sensor located on the inside of the bumper along the bottom edge.

- 20.** Identify centreline of bumper and create cut, 90mm wide and 130 mm long, as measured on the inside of the bumper from the bottom edge.





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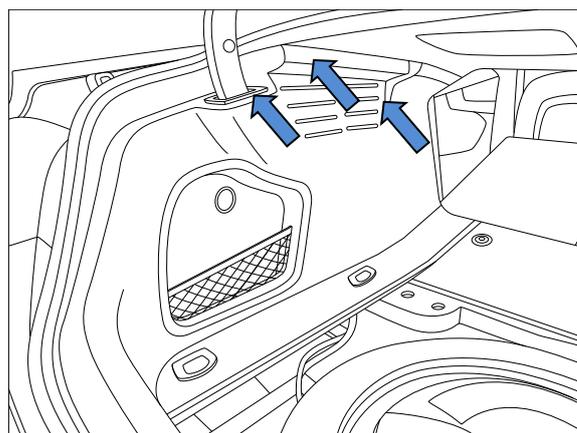
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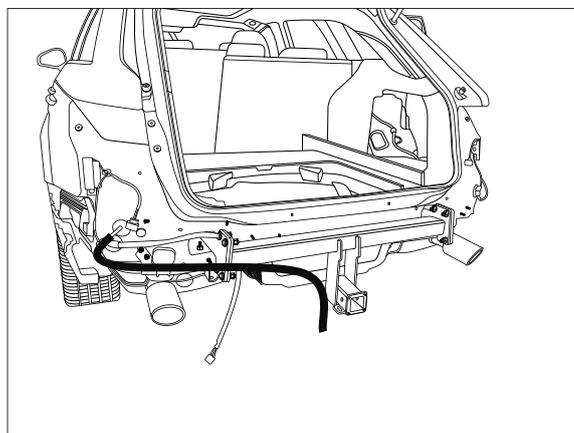
IMPORTANT

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.

21. Dislodge the LHS hinge surround.
22. Dislodge the LHS boot light and disconnect.
23. Remove the plastic scrivenets that are securing the LHS boot trim and remove the trim



24. Remove grommet on the LHS rear quarter and drill out to $\varnothing 30\text{mm}$.
25. Remove all sharp edges and spray rust inhibitor.
26. From outside the vehicle feed the tail harness (1200mm) through the previously drilled hole slide the grommet to required length secure the grommet with a cable tie supplied and ensure the grommet is seated properly.



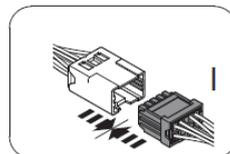


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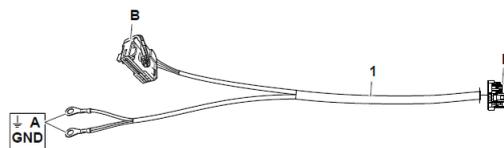
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27. Inspect the vehicle to see if it is fitted with a pre-wire 6-way connector and 10-way connector which is identical to the input harness in the kit. If fitted, the input harness won't be needed so discard steps 32 to 52.

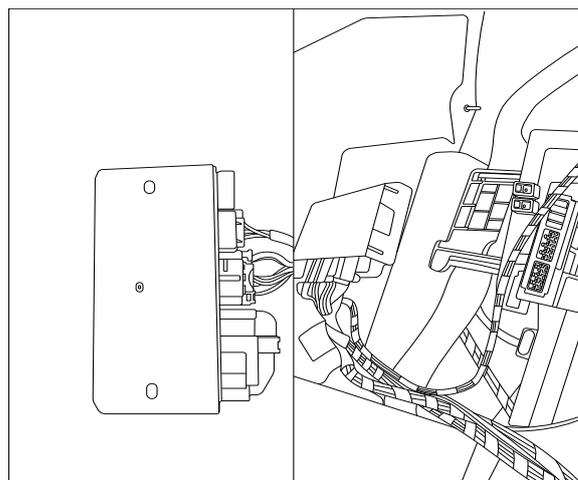


The connectors would be wrapped in foam

28. Locate the Output harness item (1) connect the tail 8-way male connector to the 8-way female connector Location (I).

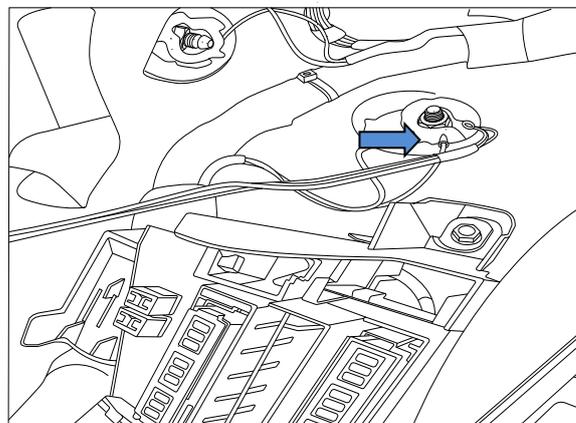


29. Locate the trailer ECU item (3) plug in the "Output Harness item (1) and CAN/Power Input Harness item (2).



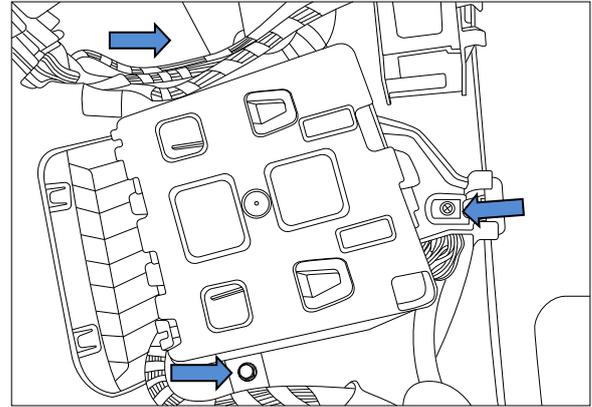
30. Adhere the adhesive "hook tape" item (4) and "loop tape" item (5) to the rear of the trailer module and place in on the rear LHS wheel arch sheet metal ensure that the tape has good adhesion.

31. Route the GND ring terminals (A & E) mount to the factory GND point.

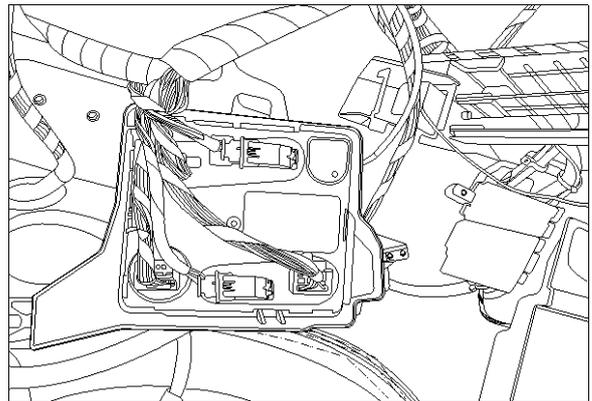


32. Release the BCM by removing 1x 10mm nut then release the 2 clips.

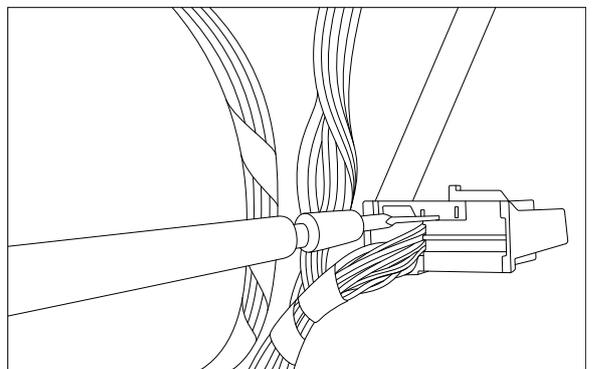
NB. This will allow you to flip the BCM over to access the BLUE and Black connectors.



33. Release the blue lever lock 32-way connector.



34. Using a small jewellers screw driver release the tab remove the blue outer shell to reveal the connector.





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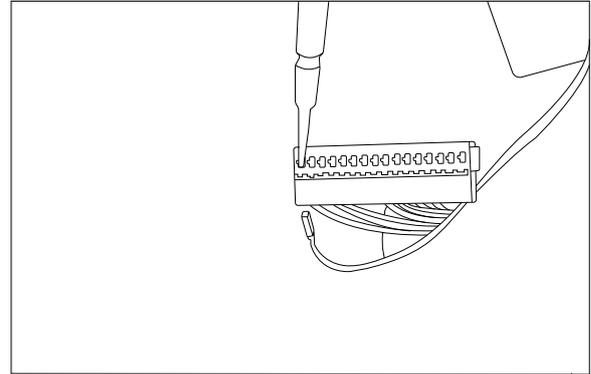
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35. Using the small Jewellers screwdriver press down on the terminal tab to remove the terminal out of the housing:

Pin1 = Orange wire (OR) "CAN-L"

Pin2 = Green wire (GN) "CAN-H"

Please Note do not short out the 2 terminals.

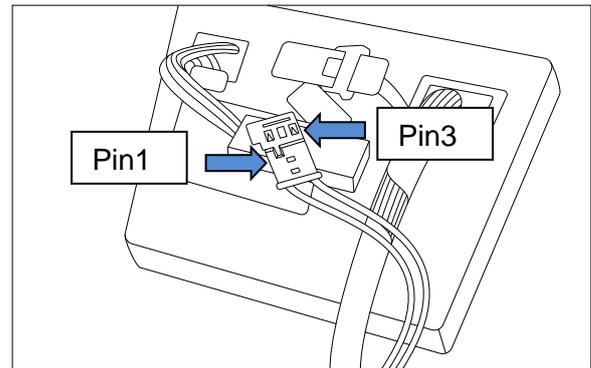


36. On the CAN/Power Input harness item (2) there are 2 connectors wrapped in a plastic bag 1 black 3-way item (H1) and 1 white 3-way (G1) house the previously removed OR wire and the GN into the black female connector in the following orientation.

Pin1 = OR wire "CAN-L"

Pin3 = GN wire "CAN-H"

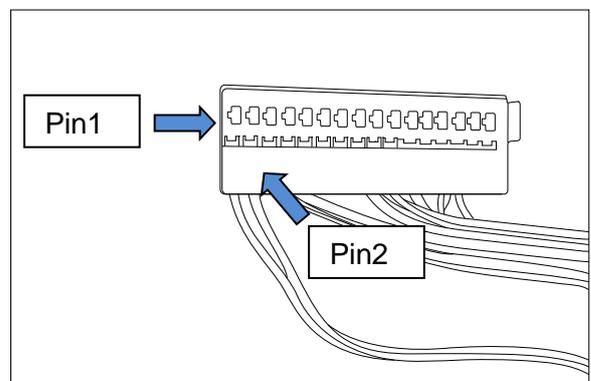
***Ensure that terminals are fully engaged before locking the secondary lock**



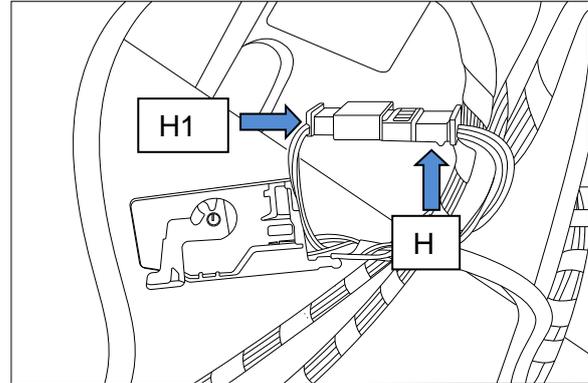
37. Locate the OR/BN and OR/GN wire from the CAN/Power Input Harness Item (2) location (H), house the terminals into the BCM 32-way vehicle CAN connector:

Pin1 = OR/BN wire "CAN-L"

Pin2 = OR/GN wire "CAN-H"

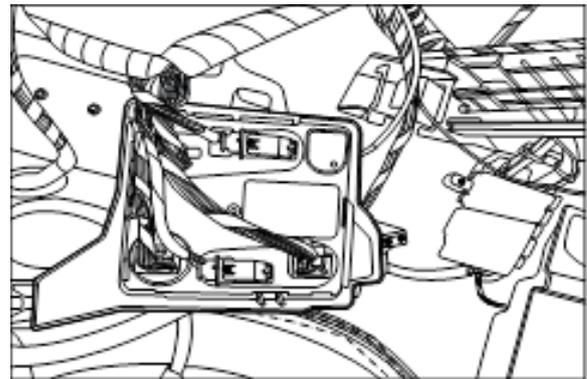


38. Reinsert the 32-way connector back into the Blue lever lock shell, plug the black 3-way female connector item (H1) into the mating 3-way male connector Location (H).



39. Plug the blue 32-way lever lock connector back into the BCM.

40. Locate the Black 32-way lever lock connector on the BCM and release.

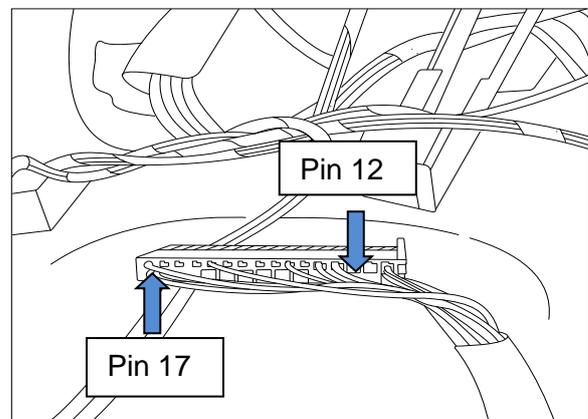


41. Using a small jewellers screw driver release the tab remove the black outer shell to reveal the connector.

42. Using the small Jewellers screwdriver press down on the terminal tab to remove the terminal out of the housing:

Pin12 = Black (BK) wire "Brake"

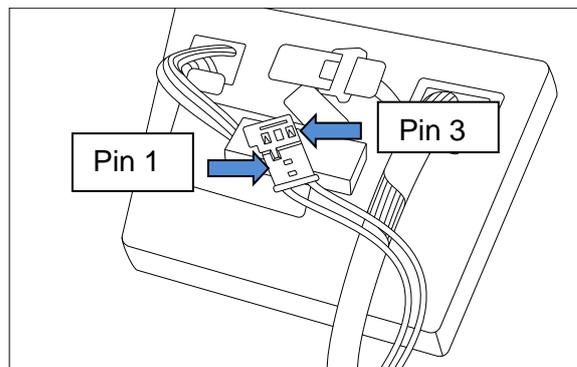
Pin17 = Purple/Black (PU/BK) wire "IGN"



- 43.** Using the 3-way white connector (G1) house the previously removed BK wire and the PU/BK into the white female connector in the following orientation.
Pin1 = PU/BK wire "IGN"

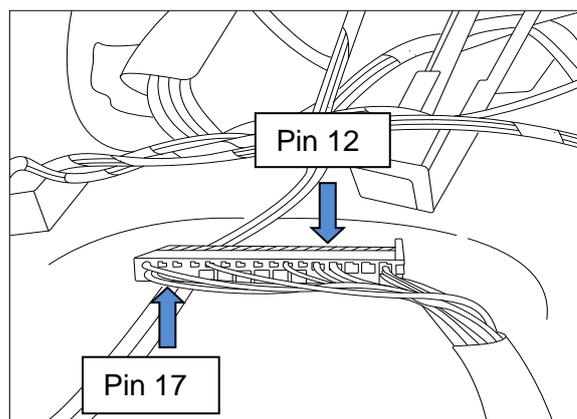
Pin3 = BK wire "Brake"

***Ensure that terminals are fully engaged before locking the secondary lock.**



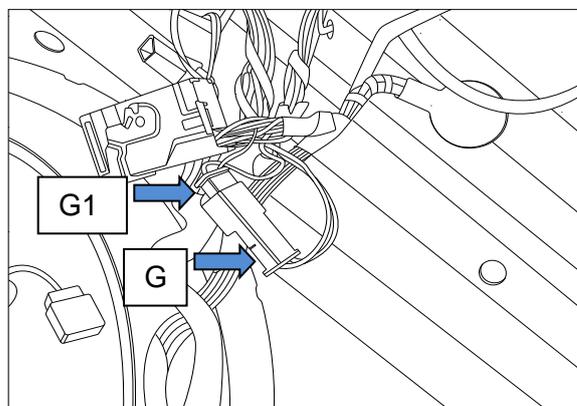
- 44.** Locate the BK and BK/RD wire from the CAN/Power Input Harness Item (2), location (G) house the terminals into the BCM 32-way vehicle connector:
Pin12 = BK/RD wire "Brake"

Pin17 = BK wire "IGN"



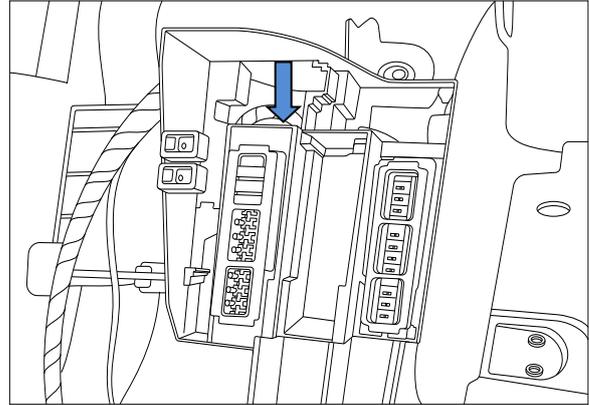
- 45.** Reinsert the 32-way connector back into the Black lever lock shell, plug the black 3-way female connector item (G1) into the mating 3-way male connector Location (G) connector.

- 46.** Plug the black 32-way lever lock connector back into the BCM.

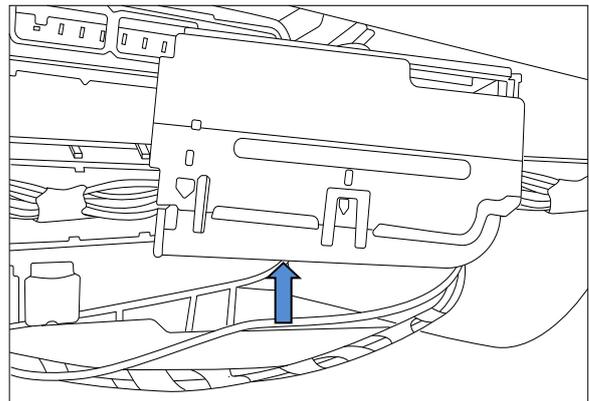


- 47.** Reinstall the BCM

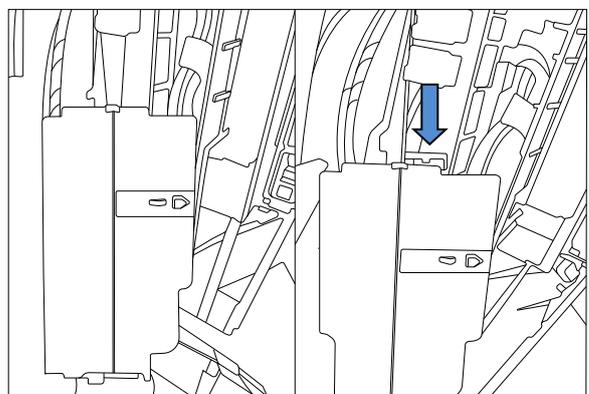
48. Locate the Fuse box bank "1" and remove by releasing the tab on the top with a flat blade screw driver.



49. Remove the back cover by prying up the 4 tabs to expose the rear cable entry.



50. Locate the purple terminal secondary lock and release it.





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- 51.** Locate the CAN/Power Input harness item (2) 4 power wires location (F), insert the power wires & fuses in the following orientation.

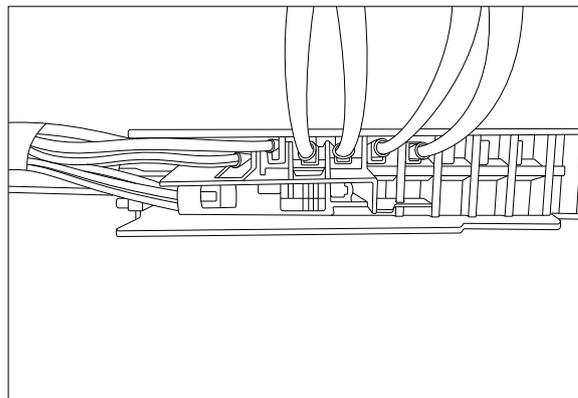
Pin5A = RD/YL wire 15amp

Pin6A = RD/BK wire 12amp

Pin7A = RD wire 15amp

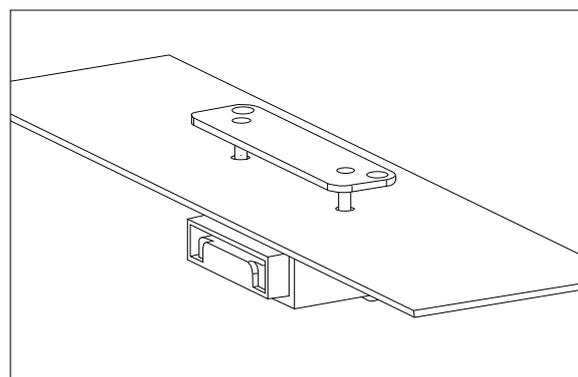
Pin8a = RD/BL wire 25amp

- 52.** Reengage the purple terminal secondary lock, replace back cover and reinsert the fuse bank back in the holder.



- 53.** Find a suitable position on the bumper for the plug bracket.

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.



- 54.** Re-install all removed components in reverse ensuring to re-connect foot-swipe sensors, running behind towbar, once bumper is fitted.
Re-connect battery.

- 55.** Next step is coding of vehicle. Pay attention to the "SmartCode" instruction (Appendix).

- 56.** Place the instruction in the glove box after fitment.



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.**

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.



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.

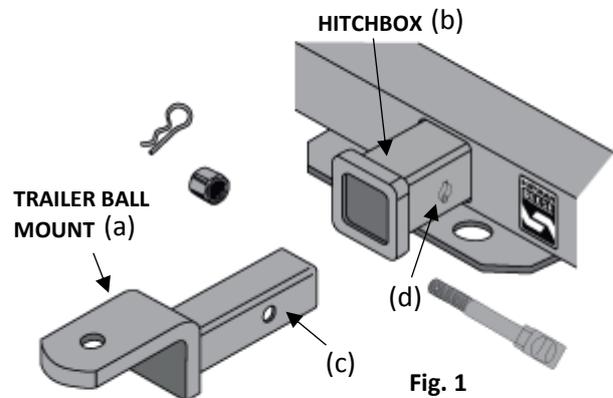
i Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- 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

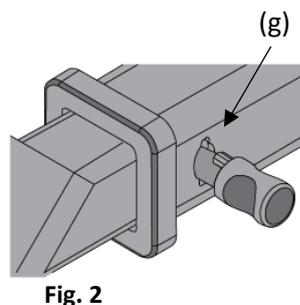
STEP 1

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



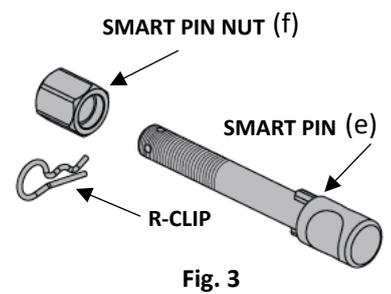
STEP 2

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)



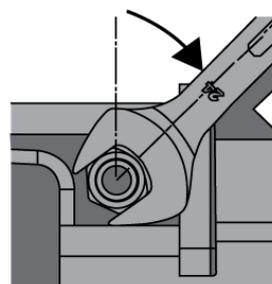
STEP 3

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.



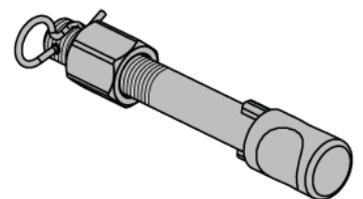
STEP 4

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)



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