



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03399RW

HAVAL JOLION A01 CL4



PRODUCT DETAILS:

Part Number:	03399RW	Maximum Towing Braked:	1500	kg
ECU Number:	04826	Maximum Towing Unbraked:	710	kg
Tail Harness Length Required:	1800 mm	Maximum Static Ball Load:	150	kg
TBM/Lug Part Number:	21288			
Wiring Part Number:	102695-WL			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Hayman Reese SmartCODE Solution Required:	NO
Wiring Installation Time:	60 Mins.	RPA Disable/Other:	NO
Total Installation Time:	120 Mins.	Note:	
Bumper Cut Required:	Yes	<ul style="list-style-type: none">Rear Cross traffic is disabled via accessing Intelligent systems menu on the centre infotainment.RPA is disable via button on dash.	



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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).

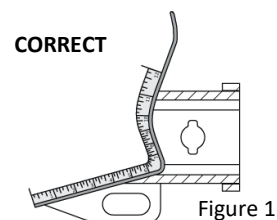


Figure 1

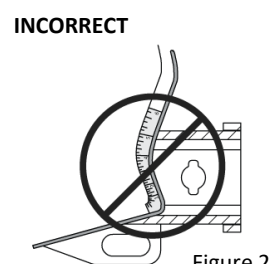


Figure 2

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.

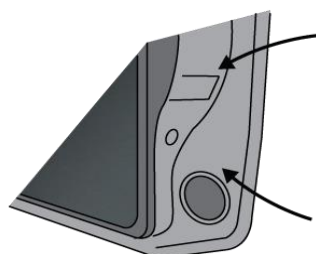
Bolts/Fasteners

- 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.**

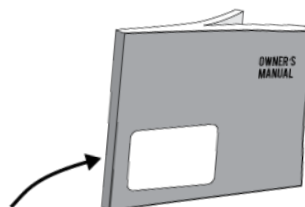
Product Labels

- 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.

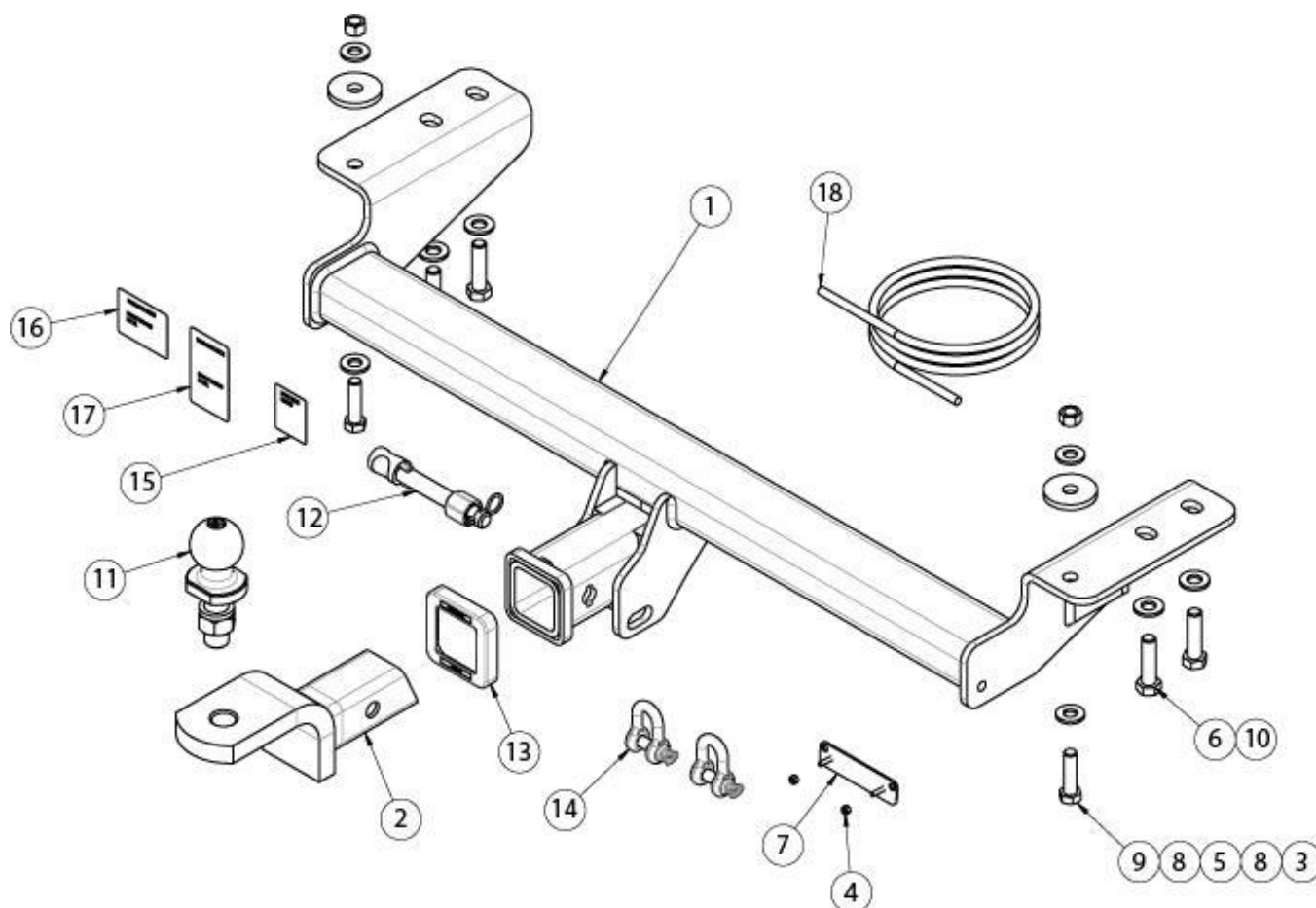


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TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	HAVAL JOLION WELDED ASSEMBLY	1
2	TRAILER BALL MOUNT	1
3	NUT HEX HD M12x1.75P	2
4	NUT NYLOC HEX HD M4x0.7P	2
5	FITTING PLATE Ø50mm	2
6	BOLT HEX HD M14x50x1.5P	4
7	PLUG BRACKET	1
8	WASHER PLAIN 1/2"	4
9	BOLT HEX HD M12x45x1.75P	2

ITEM	DESCRIPTION	QTY
10	WASHER PLAIN M14x28x3	4
11	TOWBALL 50mm	1
12	SMART PIN GOLD	1
13	HITCH BOX COLLAR COVER	1
14	"D" SHACKLE 10mm	2
15	HAYMAN REESE LOGO STICKER	1
16	COMPLIANCE LABEL	1
17	LOAD RATING LABEL	1
18	WIRING LOOM	1



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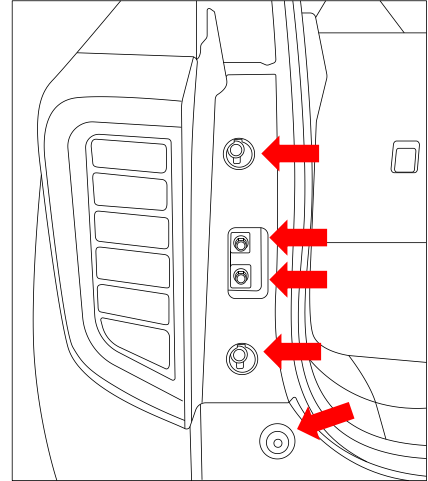
HAVAL JOLION A01 CL4

1. Open tailgate, lift the plastic screw covers and remove the remove 2 x screws securing the taillight along with the 2 x screws on the rubber boot stops.

Remove taillight (pull rearwards) and disconnect electrical connections.

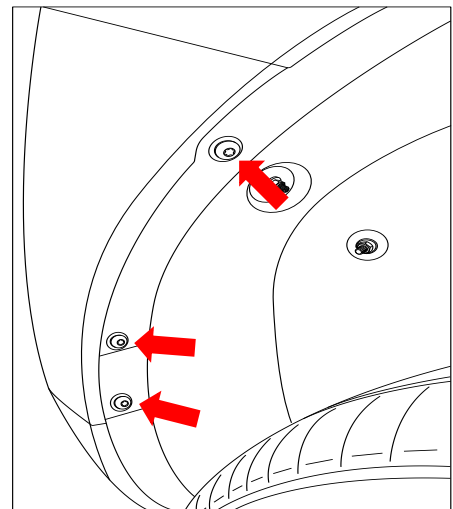
2. Remove 1 x torx from the bumper.

Repeat steps 1 and 2 for other side.



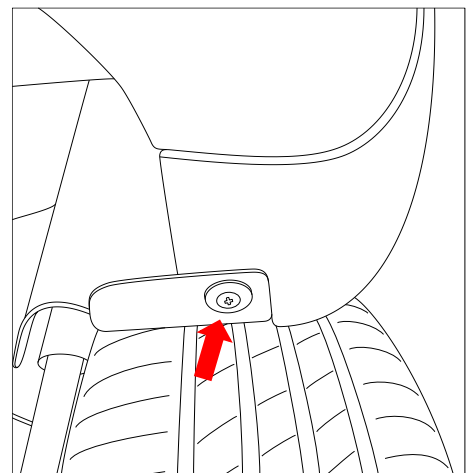
3. In wheel arch, remove 3 x screws.

Repeat for other side.

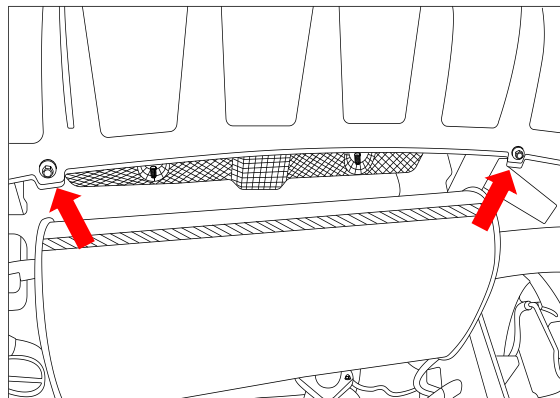


4. From under the vehicle, remove 1 x scrivet from the bumper.

Repeat for other side.



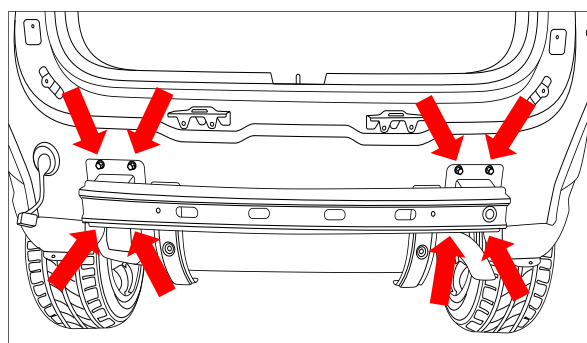
5. Along the underside of the bumper, remove 2 x screws.



6. Peel away from the sides and remove bumper. Ensure to disconnect any wiring connectors from the main loom located on the LH side.

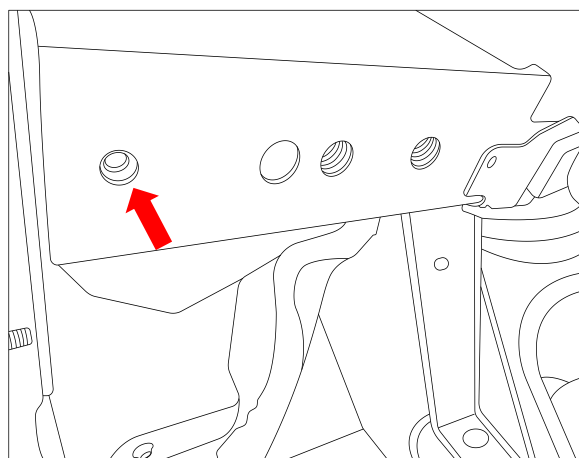
Place the bumper assembly on a bumper stand in a safe place.

7. Remove impact beam from vehicle secured with 8 nuts on studs (4 per side). Retain impact beam and nuts for re-fitment.



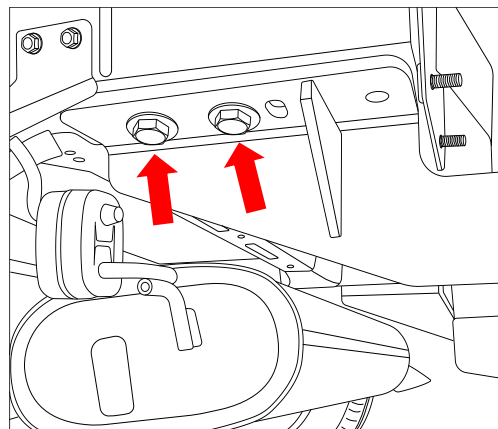
8. Enlarge the rear chassis rail mounting hole to accommodate a M12 bolt (Drill hole to 13mm). Deburr and apply an anti-corrosive coating to the exposed area.

Repeat for other side.



9. Position the towbar up to the chassis rail and loosely secure with 2 x M14 bolts complete with 1 x washer per bolt.

Repeat for the other side.



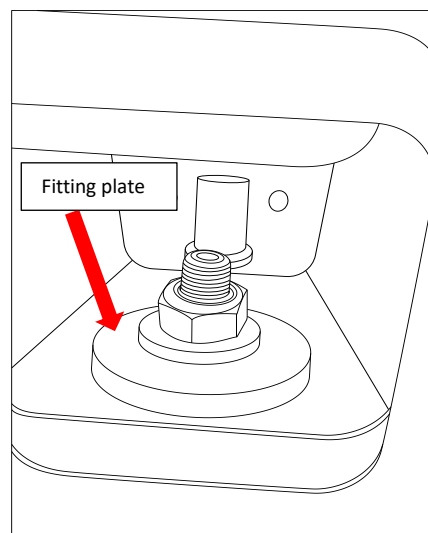
10. Secure the (drilled out) rear most hole position with 1 x M12 bolt complete with 1 x fitting plate, 2 x washers and 1 x nut. Ensure that the fitting plate is on the inside of the chassis rail.

Repeat for the other side.

Tighten all fasteners to the following torque.

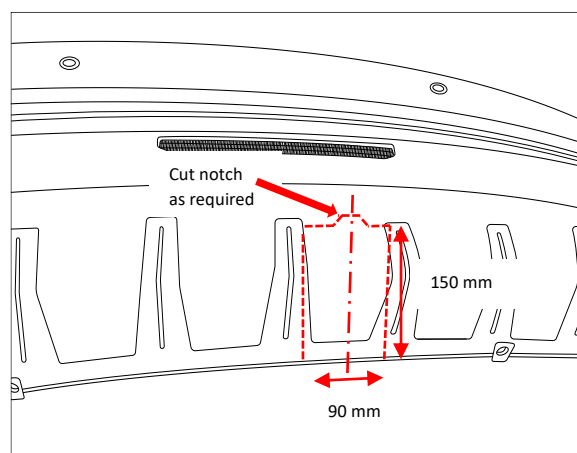
M12 x 1.75 Gr 8.8 : 77Nm

M14 x 1.5 Gr 8.8 : 140Nm



11. For bumper cut determine the centre of the bumper, measure, mark off and cut out a section 90 mm wide and 150mm long measured from the bottom edge of the bumper as depicted in the image. For a clean fit, you may have to notch out a small section on the raised section as required.

Ensure to not damage wiring in the bumper.



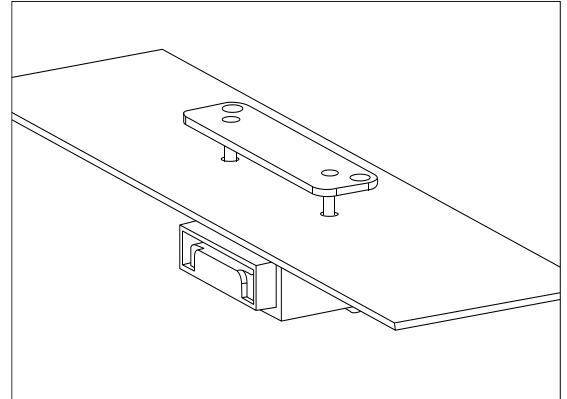


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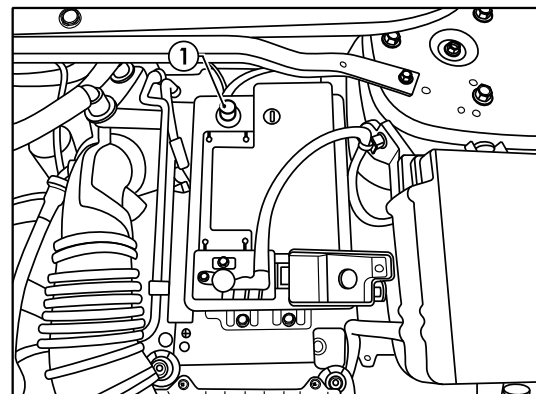
12. At an appropriate position on the bumper, mark out and drill 2x \varnothing 5mm holes 69mm apart on bumper skin to support plug bracket.



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.

13. In the Engine Bay, disconnect the vehicle battery negative terminal (1).



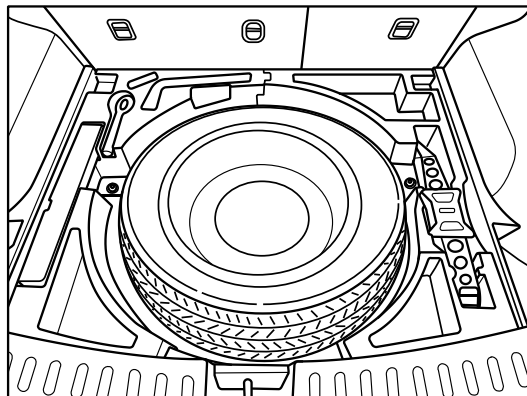


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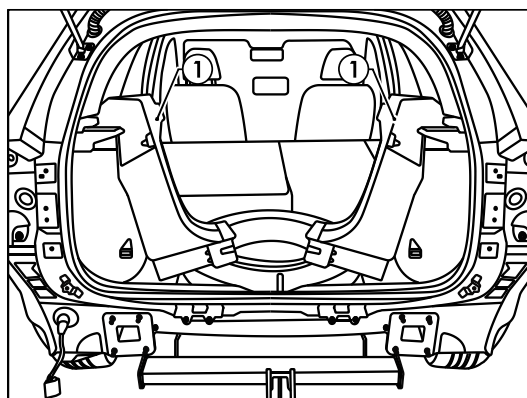
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14. Fold down rear passenger seats.
15. Remove Luggage Compartment Floor exposing the vehicle spare tyre.
16. Remove polystyrene insert, wingnut, plate to remove the spare Tyre.
17. Remove the plastic nuts to remove the polystyrene insert and tools.



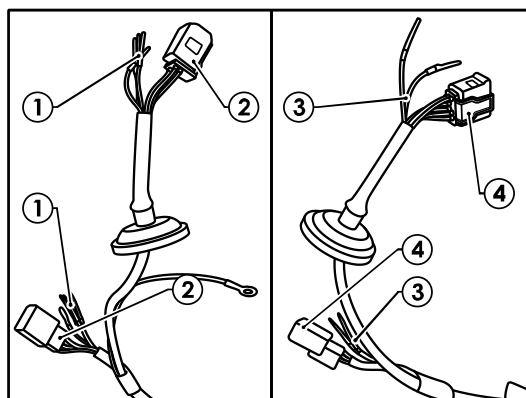
18. Remove screws and bolts holding both the RHS & LHS Rear Interior Trim (1).
19. Dislodge both the RHS & LHS Rear Interior Trim (1) towards the centre of the vehicle.



Trailer Harness LHS Pin Assignment.

20. House the 4 terminals (1) into the LHS Male/Female Tail Light Connector (2) on the harness according to the table and images below.
21. Engage the secondary lock.

Cavity Number	Function	Trailer Patch
1	Stop	Red/Black
2	Tail	Brown/Black
3	LHS Indicator	Yellow/Black
4	Pass Thru	Grey
5	-	Grey





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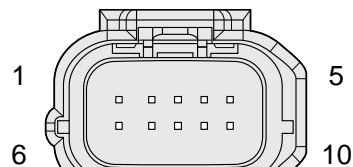
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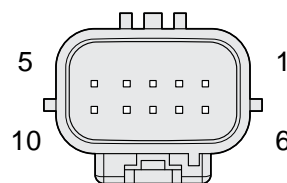
Trailer Harness RHS Pin Assignment.

22. House the 2 terminals (3) into the RHS tail light connector (4) on the harness according to the table below.
23. House the secondary lock.

Cavity Number	Function	Trailer Patch
1	-	Grey
2	-	Grey
3	RHS Indicator	Green/Black
4	Pass Thru	Grey
5	-	Grey

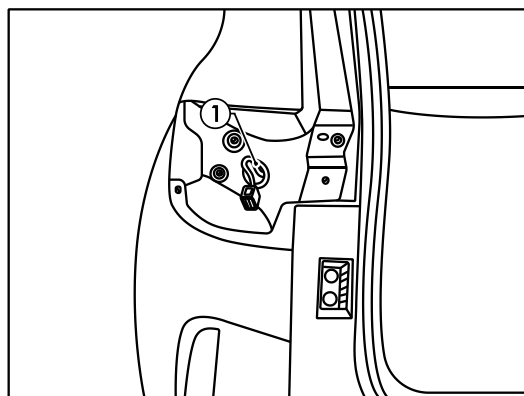


FRONT VIEW

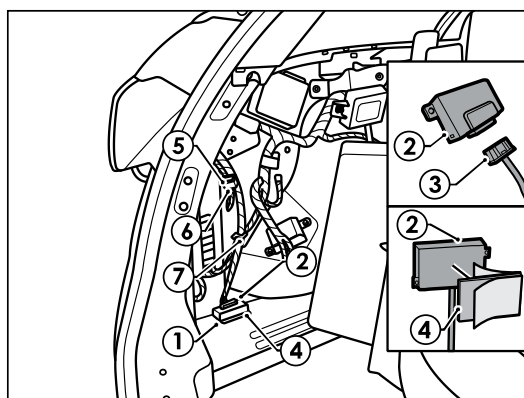


FRONT VIEW

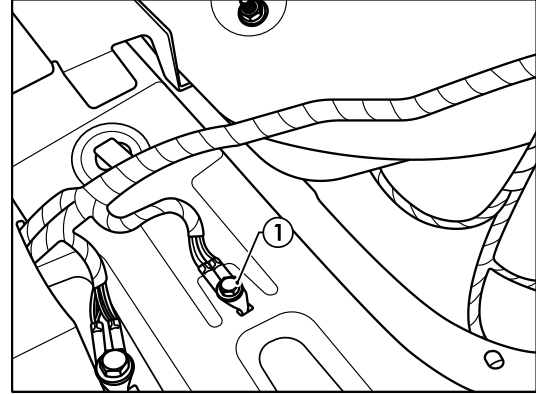
24. Push the Vehicle LHS tail lamp grommet (1) and connector inside the vehicle and connect the vehicle LH tail lamp connector to the mating Trailer Harness connector.
25. Pull the Trailer Wiring Harness LHS tail lamp connector back thru the hole and secure the grommet.
26. Route the Trailer Wiring Harness across to the RHS Tail Lamp and repeat the above process, ensuring to tuck the harness as you go.



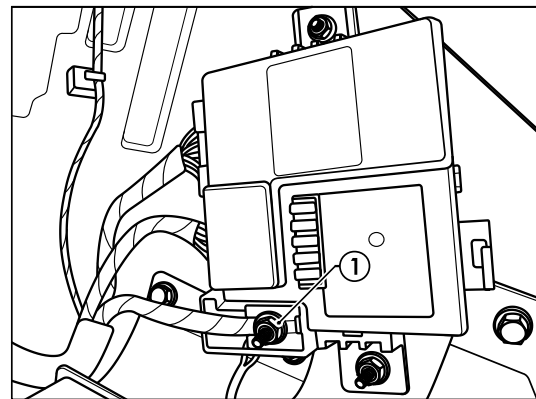
27. Behind the LHS rear panel, clean ECU mounting location (1) shown and base of ECU (2) using supplied cleaning pad.
28. Connect the Trailer Harness 12-way connector (3) to ECU (2) and mount in the location shown using the supplied Double-Sided Tape (4).
29. Secure Trailer Harness (7) to existing vehicle harness using supplied 200mm cable ties.



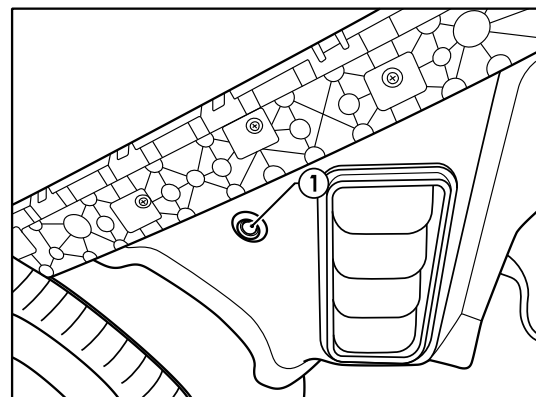
30. In the rear cabin area, connect the white M6 ground wire ring terminal to the vehicle earthing point **(1)** on the rear arch.



31. Route the orange power wire towards the vehicle interior Fuse box.
32. Tuck the power wire under the trim as required.
33. Remove Fuse box Cover to expose 6mm positive stud **(1)**. Connect the M6 positive ring terminal to the positive stud **(1)** on the fuse box.



34. On the LHS of the vehicle remove the existing grommet **(1)** and drill out the hole to 30mm.





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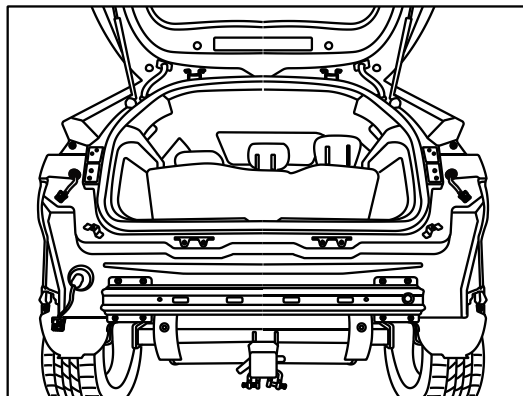
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35. Secure tail harness to towbar.
36. Route tail harness up through chassis and previously drilled 30mm hole.
37. Seat grommet in 30mm hole and route to trailer harness blue connector on patch loom.

Note: Keep harness routing clear of all sharp edges, moving parts and places of extreme heat.

Note: Ensure grommet is seated correctly and makes a good seal.



38. Connect the tail harness (tail length 1800mm) 8-way connector to the trailer patch mating 8-way connector.
39. Secure all harness using supplied cable ties.
40. Reconnect Negative Battery Terminal.
41. Refit bumper, including the impact beam following steps 1 -7 in reverse along with all other removed components and fasteners, ensuring there are no squeaks or rattles.
42. Test the trailer patch function using a light board or multi-meter.
43. Place the fitting instructions 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.**

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.

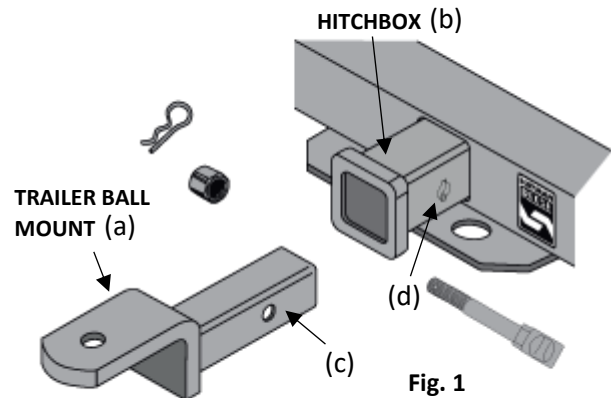
i Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- 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

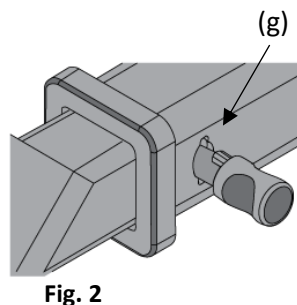
STEP 1

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



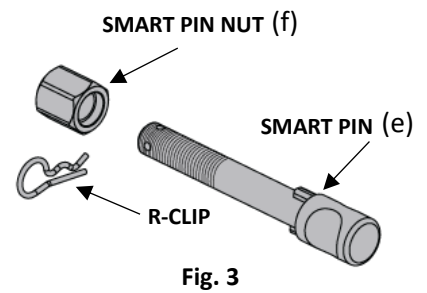
STEP 2

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)



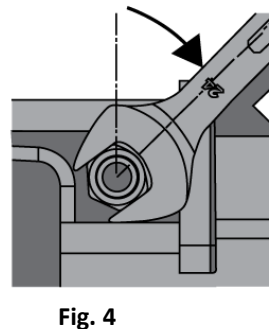
STEP 3

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.



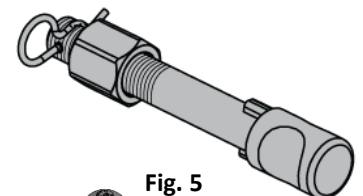
STEP 4

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).

