



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03250RW

JEEP COMPASS M6 CL4



PRODUCT DETAILS:

Part Number:	03250RW	Maximum Towing Braked:	1500	kg
ECU Number:	04826	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200 mm	Maximum Static Ball Load:	150	kg
TBM/Lug Part Number:	21126			
Wiring Part Number:	102095-WL			

FITTING DETAILS:

Towbar Installation Time:	70 Mins	Vehicle Coding Required:	NO
Wiring Installation Time:	60 Mins	RPA Disable/Other:	NO
Total Installation Time:	130 Mins.	Note:	
Bumper Cut Required:	Yes		

- Electric input location: Near blue connector
- RPA Disable: Near Hazzard switch



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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

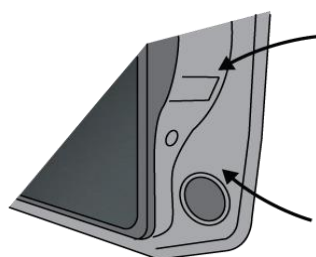
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

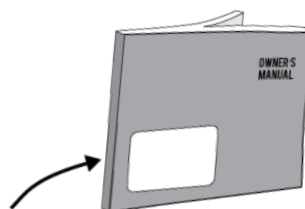
Product Labels

- 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

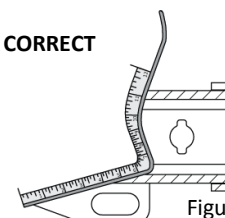


Figure 1

INCORRECT

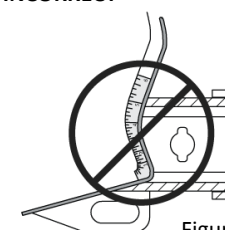


Figure 2



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.

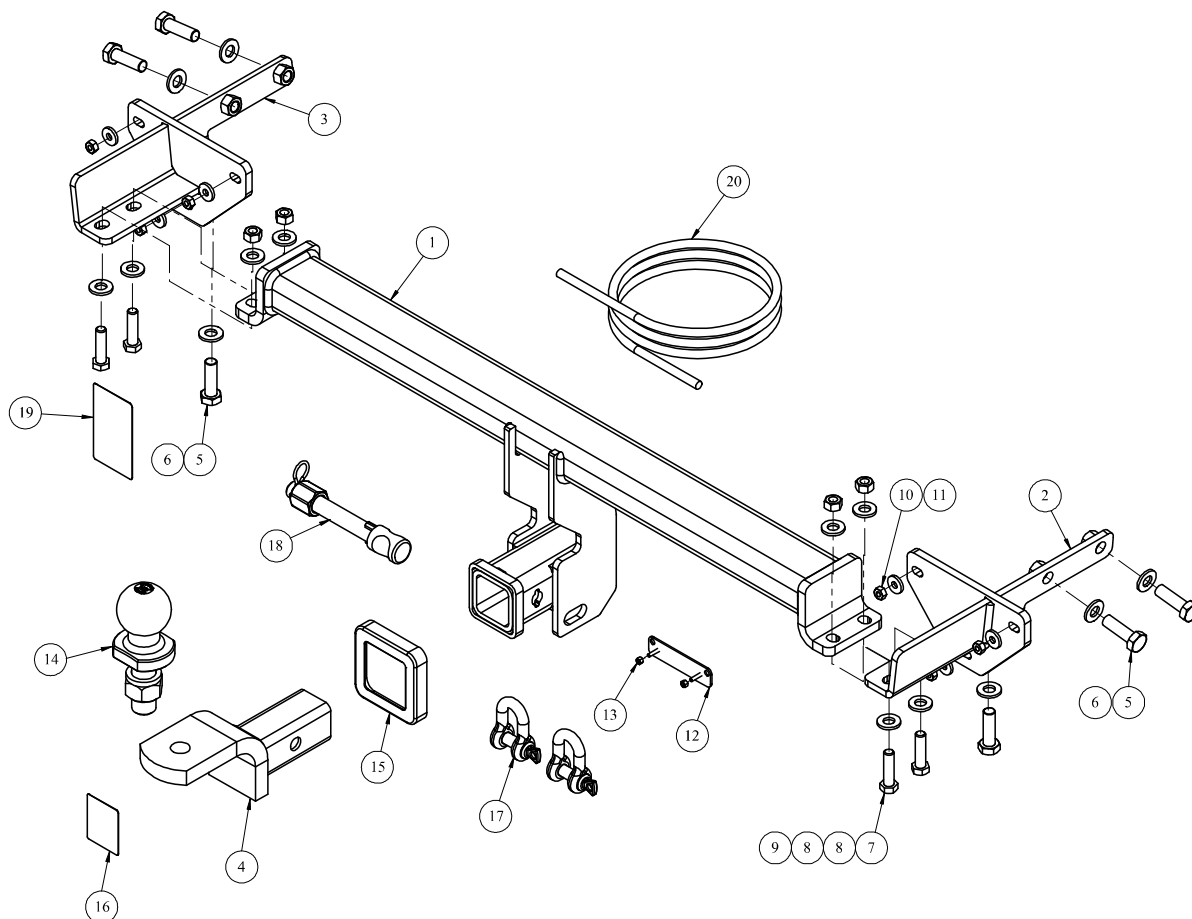


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i TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	JEEP COMPASS WELDED ASSEMBLY	1
2	RH SIDE ARM	1
3	LH SIDE ARM	1
4	TRAILER BALL MOUNT	1
5	SET SCREW M14 X 45X 2P G10.9	6
6	M14 X 28 X 3 Z/P FT WASHER	6
7	SET SCREW HEX HD M12x45x1.25P	4
8	WASHER PLAIN 1/2X1-1/8X16G	8
9	NUT HEX HD M12 X 1.25P G8	4
10	M8 - 1.25 NUT	6

ITEM	DESCRIPTION	QTY
11	WASHER PLAIN M8 X 22 X 3	6
12	PLUG BRACKET	1
13	NUT NYLON LOCK HEX HD M4X0.7P	2
14	HR TOWBALL	1
15	HITCH BOX COLLAR COVER	1
16	H.R STICKER	1
17	10mm "D" SHACKLE	2
18	ANTI-RATTLE PULL PIN ASSY GOLD	1
19	ACRYLIC COMPLIANCE LABEL	1
20	WIRING LOOM	1



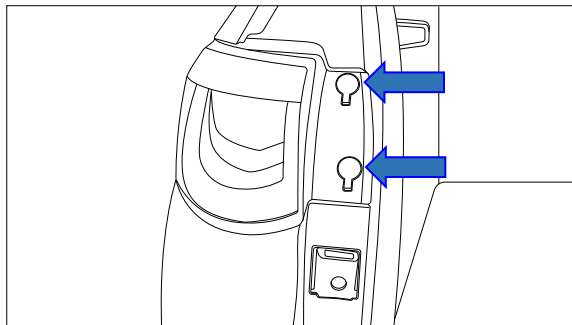
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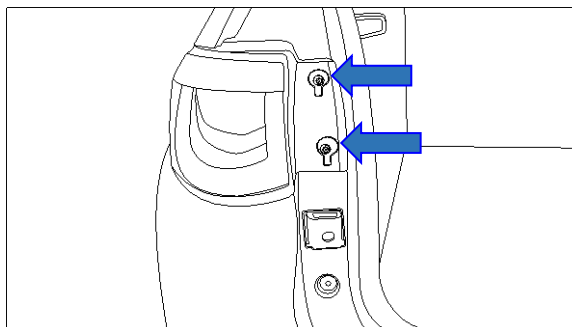
-
1. Open tail gate. Remove 2 x covers on tail-light to expose tail-light fasteners.

Repeat for opposite side.



-
2. Remove 2 x torx head screws securing tail-light.

Repeat for opposite side.



-
3. Remove tail-lights by firmly pulling rearwards. Disconnect tail-light plug from vehicle. Set safely aside.

Repeat for opposite side.

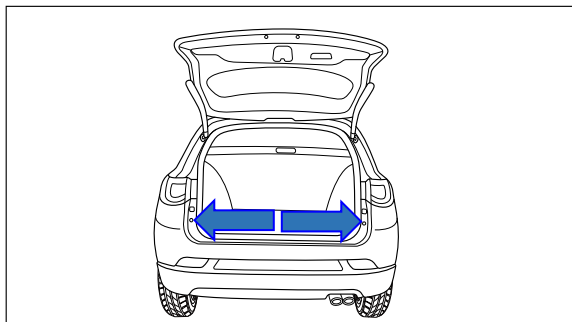


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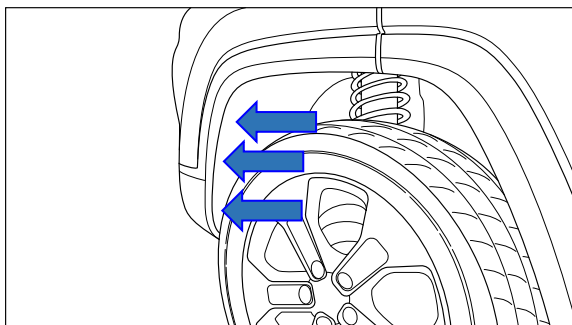
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-
4. Remove 2 x torx screws from around boot opening on bumper.



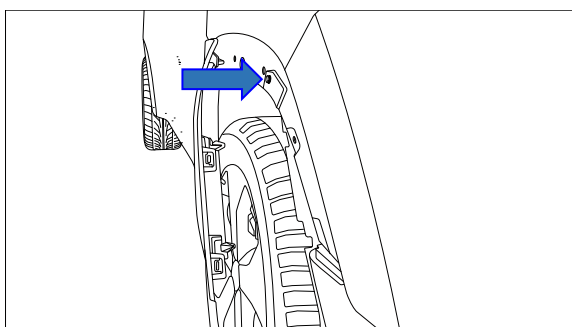
-
5. Remove 3 x Phillips head screws from inside wheel arch well.

Repeat for opposite side.



-
6. Peel back trim surrounding wheel arch and remove 1 x hex head screw (now exposed) from bumper.

Repeat for opposite side.



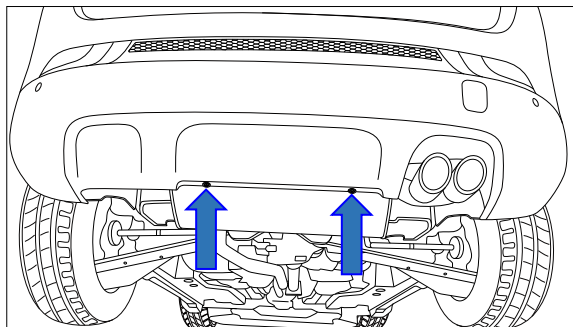


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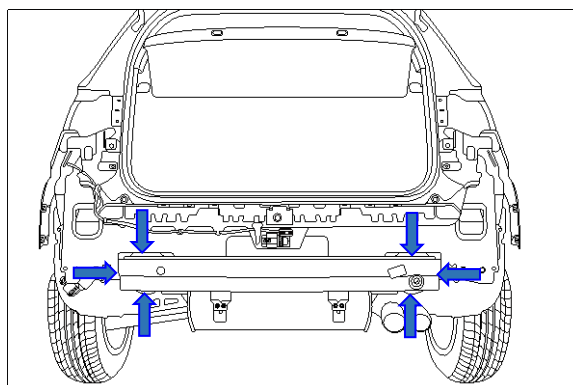
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-
7. Remove 2 x torx head screws from underside of bumper.



-
8. Carefully peel back bumper from corners and disconnect any attached wiring. Set bumper aside.

-
9. Remove impact beam via 6 x hex head nuts from rear panel. Discard impact beam and nuts.





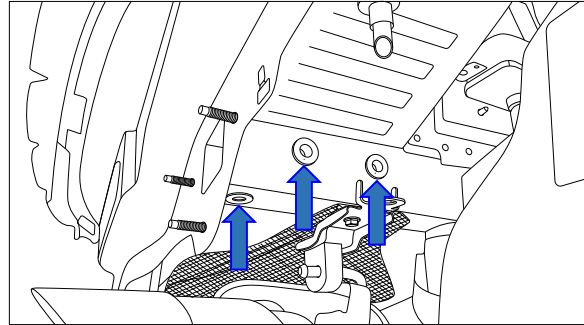
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10. Remove 3 x plugs from chassis rail covering towbar mounting points. Discard plugs.

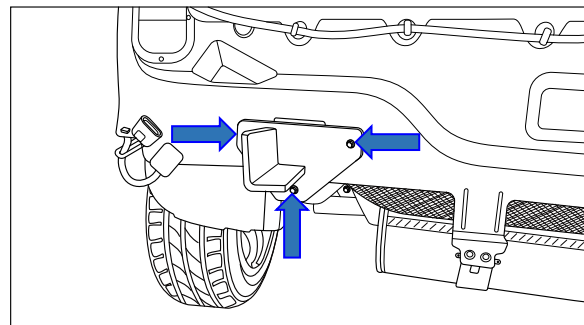
Repeat for opposite side.



11. Insert side arm into chassis rail and loosely secure to rear panel via 3 x M8 nuts complete with 1 x M8 washer per nut.

Loosely secure side arm to chassis rail via 3 x M14 complete with 1 x M14 washer per bolt.

Repeat for opposite side.



12. Lift centre welded assembly up to vehicle and sit onto side arms.

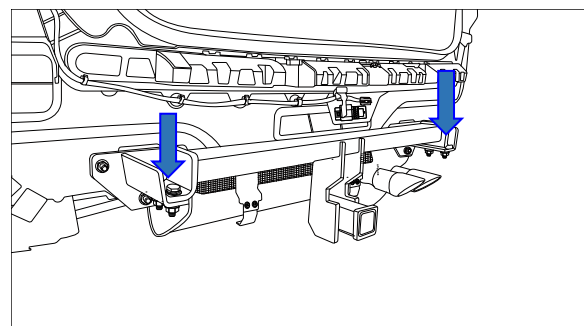
Loosely secure centre section to side arms with 4 x M12 bolts (2 per side) complete with 2 x washers and 1 x nut per bolt.

Tighten all fasteners to the torques listed below:

M8: 22 N.m

M12: 125 N.m

M14: 175 N.m





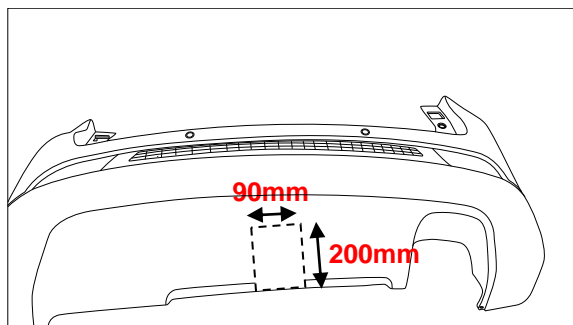
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13. Identify the centreline of the bumper. Measure and mark a 200mm tall x 90mm wide rectangle as measured from the bottom edge of the bumper.

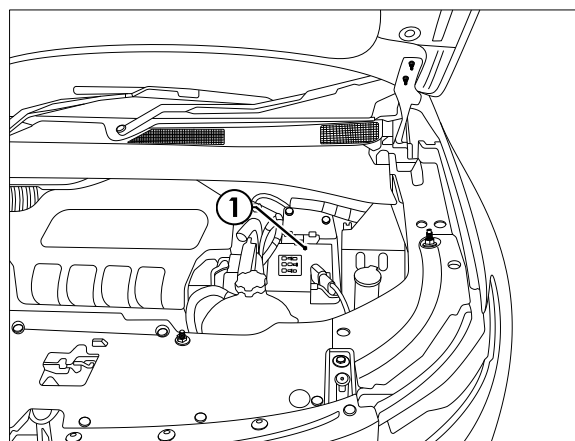
Cut the bumper using an appropriate cutting tool ensuring to remove any sharp burrs or edges after cut.



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.

14. In the engine bay, disconnect the negative quick disconnect battery terminal (1).



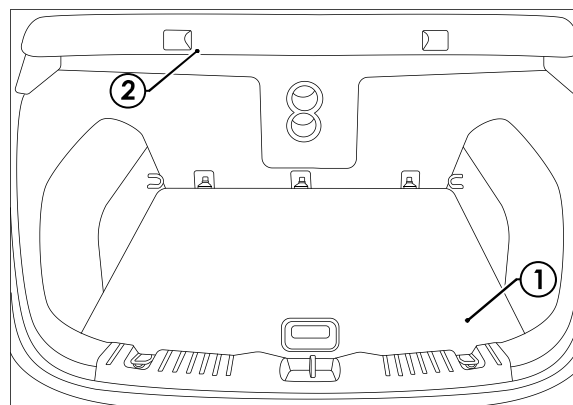


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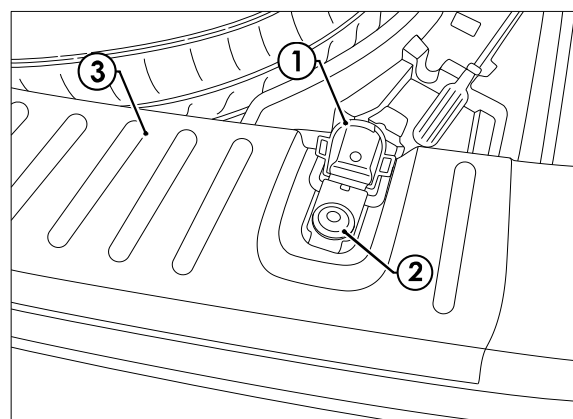
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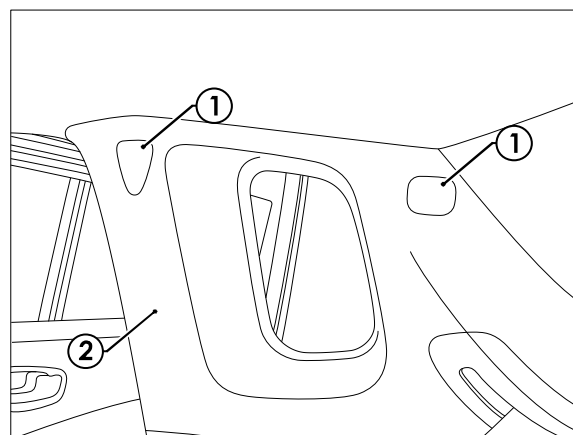
15. In the boot, remove the floor cover carpet (1).
16. Remove the sunshade (2).
17. Remove the foam tool storage trays.
18. Remove the spare wheel.



19. Remove the two caps (1) covering the T40 torx screws (2) on the rear scuff plate (3).
20. Remove the T40 torx screws (2) and the three T10 torx screws from the scuff plate (3).
21. Dislodge the rear scuff plate by pulling in an upward direction.
22. Remove the keyless entry Ariel from the scuff plate if present and remove scuff plate from vehicle.



23. On the RHS remove the two caps (1) covering the screws securing the C/D pillar trim (2).
24. Remove the T15 Torx Screws.
25. Dislodge the C/D pillar Trim (2).



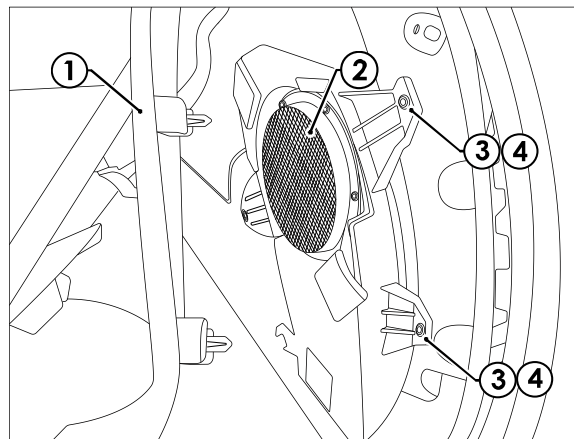


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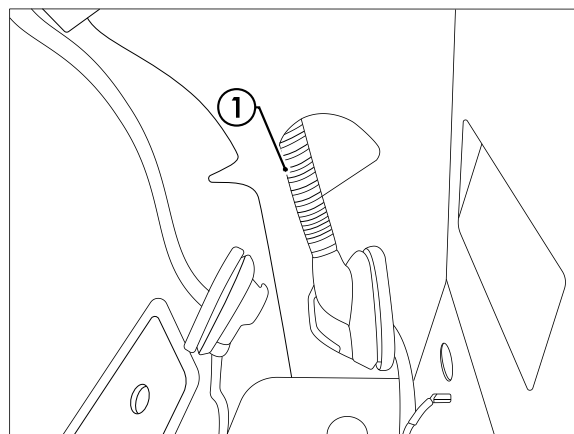
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26. Dislodge the RHS trim (1).
27. Remove the two bolts (3) and nut (4) securing the subwoofer (2) if present.
28. Remove the subwoofer (2).

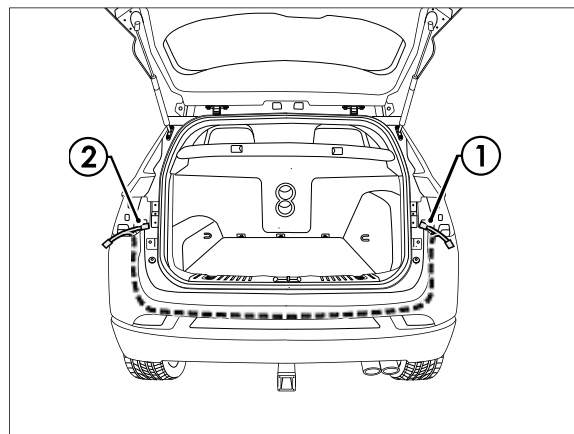


29. Locate the RHS vehicle tail light grommet (1).
30. Unseat the grommet (1) and push grommet and tail light connector through to the interior of the vehicle.
31. Route the Trailer Patch Harness (102095-WL) tail light connectors (1) from the interior, through the vehicle tail light harness grommet hole, to the exterior.
32. Seat the grommet on the patch harness in the hole where the tail light harness grommet was seated.

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



33. Route the RHS tail lamp connector (1) on the trailer patch to the RHS tail light.
34. Route the LHS tail lamp connectors (2) on the trailer patch to the vehicle tail lamp assembly.
35. Patch in the LHS tail lamp connectors (2) on the trailer patch to the vehicle tail lamp assembly and vehicle harness.



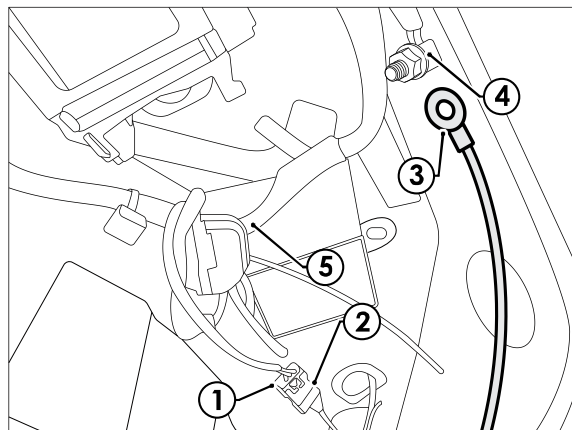


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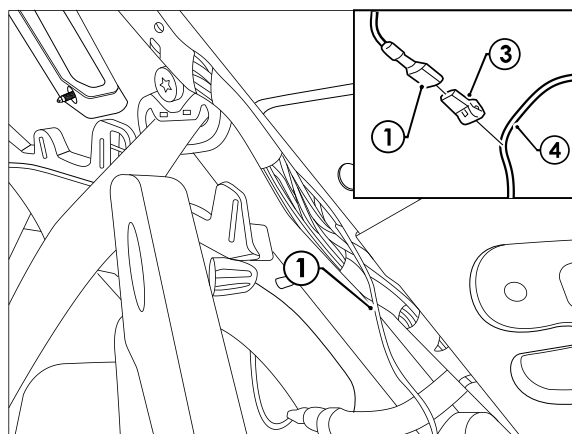
36. Behind previously removed subwoofer, connect the RHS tail light connector (1) to the trailer patch (2).
37. Connect the ground wire ring terminal (3) to the vehicle earthing point (4).
38. Using supplied Cable Ties, secure excess vehicle harness length (5).



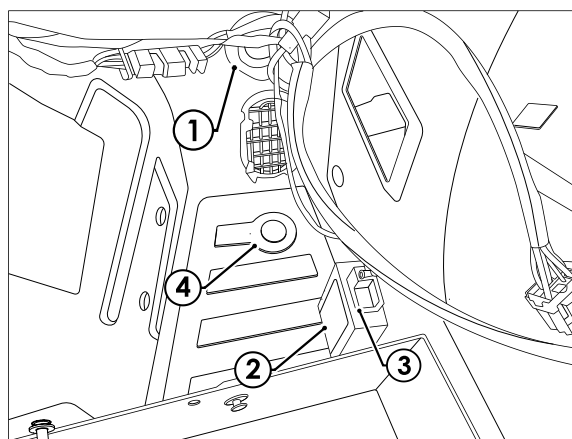
This step is only applicable for vehicles utilising reverse:

39. For reverse connection, route the trailer patch black/white wire branch (1) up to the rear head lining. Locate the harness that runs towards the vehicle tailgate (2). Following the table below connect the ezy-tap (3) to the mating harness wire (4). Then connect the trailer patch wire (1) to the ezy-tap (3).

Function	Trailer Patch	Vehicle Harness
Reverse	White/Black	White wire, Green trace



40. Using an alcohol wipe, clean the RHS area near the RHS grommet (1) and the underside of the ECU (04826) (2).
41. Connect the trailer patch 12-way connector (3) to the ECU.
42. Apply double sided tape to the ECU (2) and secure it to the vehicle.
43. Drill a Ø30mm grommet hole (4) in the RHS rear floor area to enable the tail harness to be routed from the towbar to the ECU via the chassis rail access.





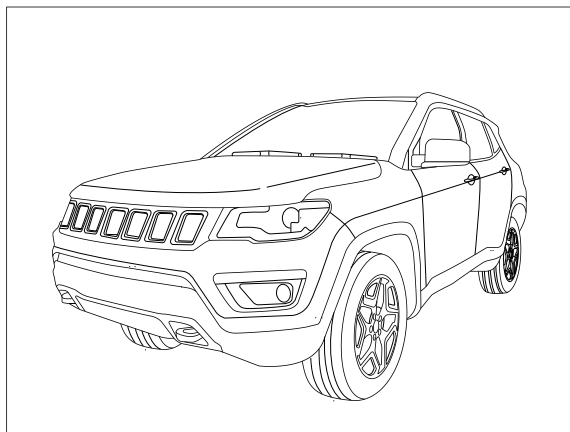
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44. Under the vehicle, connect the power harness to the 1-way connector near the LHS chassis rail.
45. Route the power harness along the chassis rail towards the vehicle battery in the engine bay.

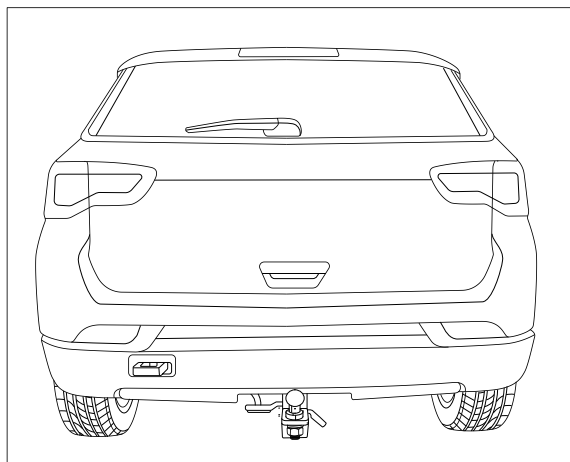
Note: Keep routing clear of all sharp edges, moving parts and places of extreme heat.



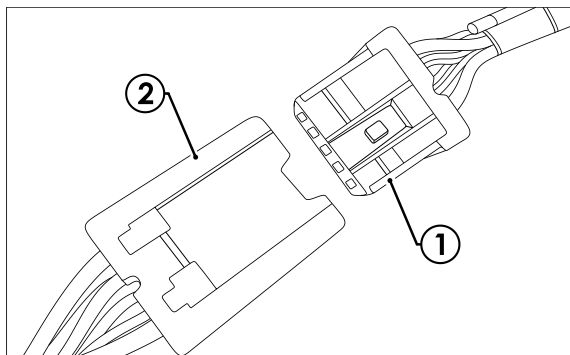
46. With the rear bumper removed, secure tail harness to towbar.
47. Route tail harness up through chassis rail and previously drilled grommet hole.
48. Seat grommet in 30mm blanking hole and route to trailer harness blue connector on wiring loom.

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.



49. Connect the tail harness (1) (tail length 1200mm) 8-way connector to the trailer patch mating 8-way connector (2).
50. Secure all harness using supplied cable ties.
51. Test the trailer patch function using a light board or multi-meter.
52. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
53. The RPA function can be disabled via a switch next to the Hazard light switch.
54. Place the fitting instructions in the glove box after fitment.



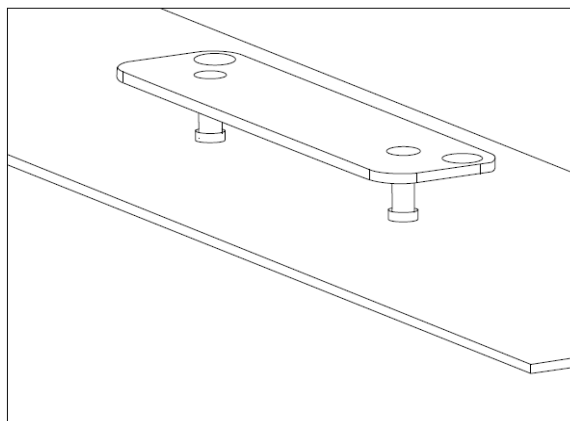


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55. Mark out and drill 2 x \varnothing 5mm holes 69mm apart on bumper skin to support plug bracket.



56. Re-fit all components following steps 1-7 in reverse.



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.

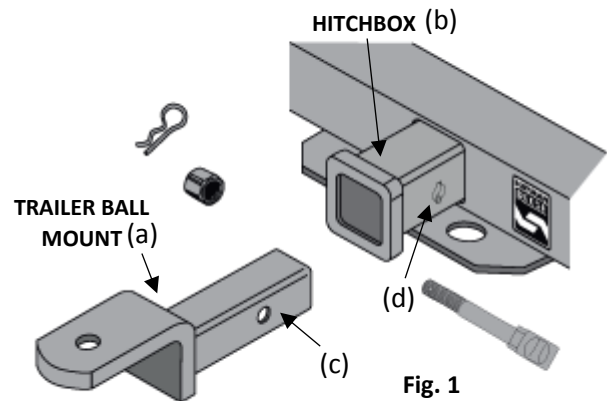
i Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- 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

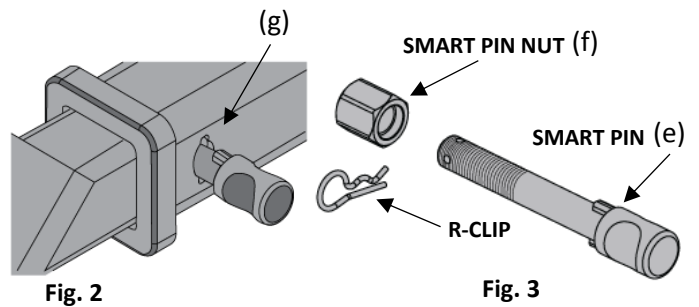
STEP 1

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).

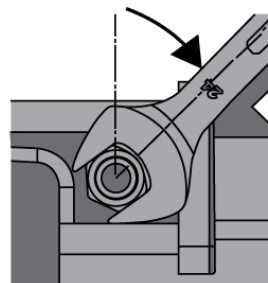


Fig. 4

STEP 5

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

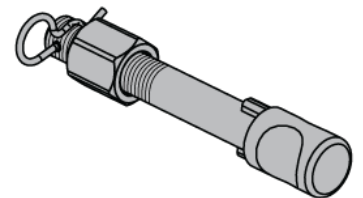


Fig. 5