



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03249RW

VOLVO XC40 CL4



PRODUCT DETAILS:

Part Number:	03249RW	Maximum Towing Braked:	2100	kg
ECU Number:	04836	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	400 mm	Maximum Static Ball Load:	210	kg
TBM/Lug Part Number:	21201			
Wiring Part Number:	102058-WL			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Vehicle Coding Required:	NO
Wiring Installation Time:	60 Mins.	RPA Disable/Other:	NO
Total Installation Time:	120 Mins.	Note:	
Bumper Cut Required:	Yes		

- RPA Disable - Switch located on the dash
- Electric Brake Input Location: Blue Wire near vehicle Earth Point



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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

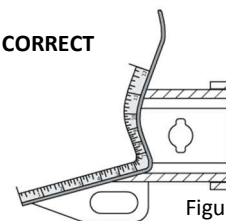


Figure 1

INCORRECT

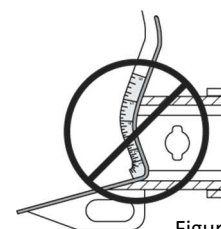


Figure 2

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

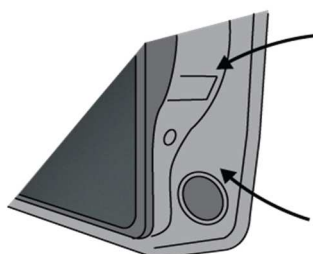
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

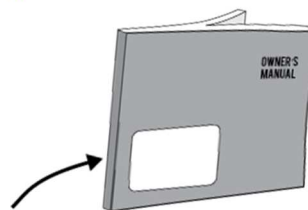
Product Labels

- 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.

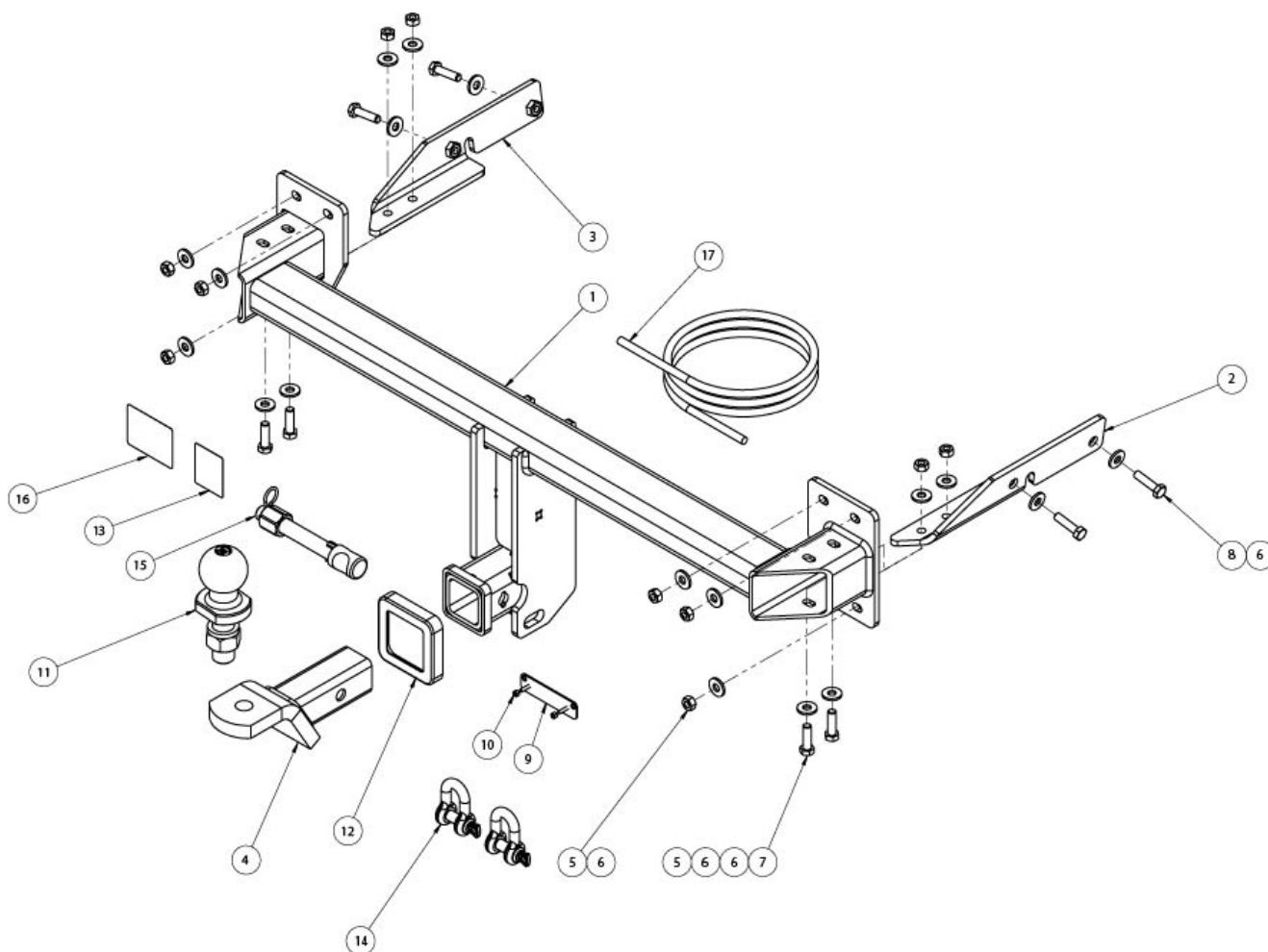


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i TOWBAR ASSEMBLY DIAGRAM

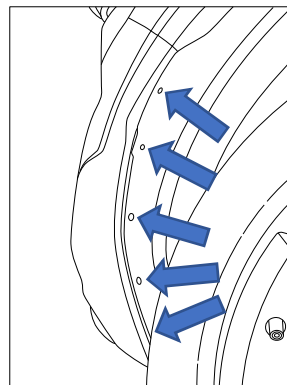


ITEM	DESCRIPTION	QTY
1	VOLVO XC40 WELDED ASSEMBLY	1
2	VOLVO XC40 RH SIDE ARM	1
3	VOLVO XC40 LH SIDE ARM	1
4	TRAILER BALL MOUNT	1
5	NUT HEX M10x1.5P	10
6	WASHER PLAIN M10x25x3	18
7	SETSCREW HEX HD M10x35x1.5P	4
8	SETSCREW HEX HD M10x40x1.25P	4
9	PLUG BRACKET	1

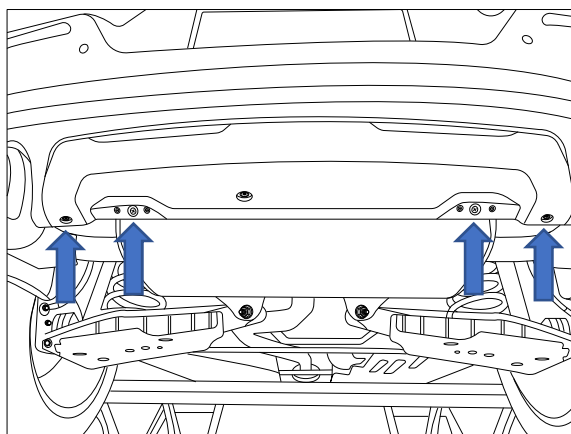
ITEM	DESCRIPTION	QTY
10	NUT NYLON LOCK HEX M4x0.7P	2
11	TOWBALL 50mm	1
12	HITCH BOX COLLAR COVER	1
13	H.R STICKER	1
14	"D" SHACKLE 10mm	2
15	ANTI-RATTLE PULL PIN ASSY GOLD	1
16	ACRYLIC COMPLIANCE LABEL	1
17	WIRING LOOM	1

1. Remove 5 x torx head screws from LH wheel arch.

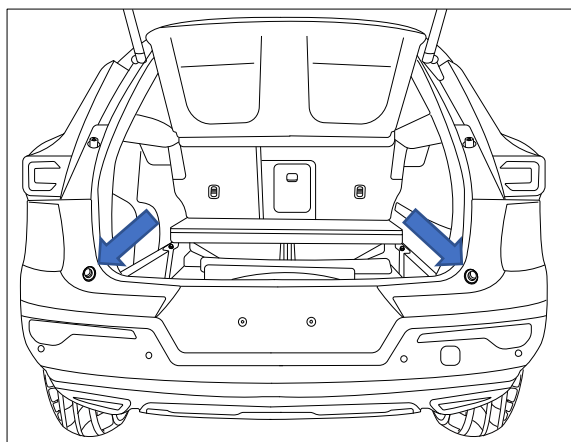
Repeat for opposite side.



2. Remove 4 x torx head screws from lower bumper garnish.



3. Remove 2 x boot stoppers from either side of boot opening.
4. Dislodge LHS bumper fascia and disconnect sensor connection. Remove bumper and set aside.



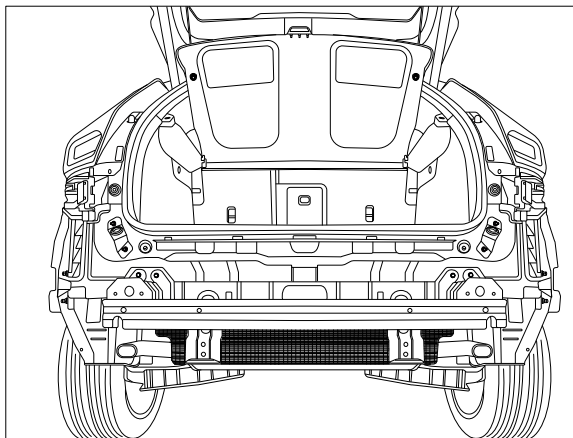


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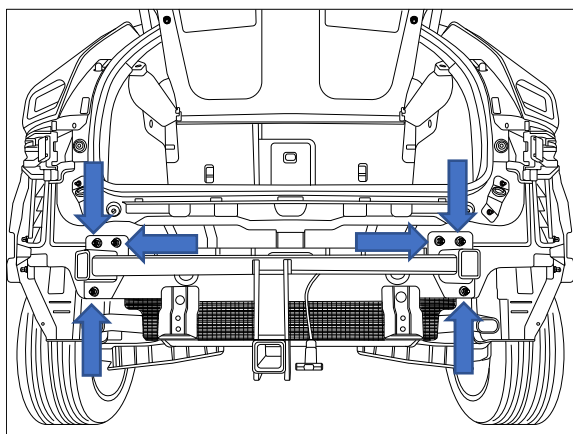
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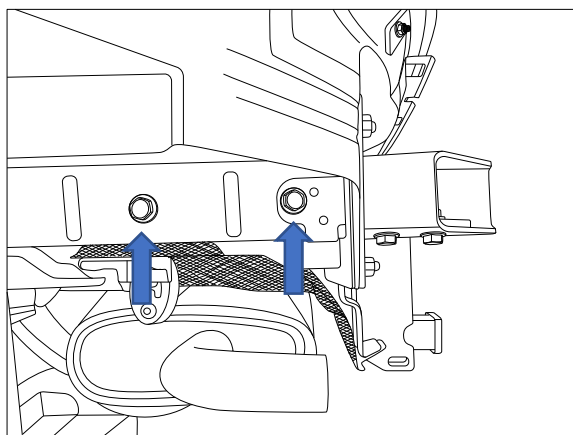
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5. Remove 3 x hex head nuts from either side of impact beam connecting impact beam to rear panel. Remove and discard impact beam and fasteners.



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6. Lift cross-tube up to rear panel and locate rear panel studs. Loosely secure towbar to studs via 6 x M10 nuts complete with 1 x washer per nut.



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7. Insert side arms into chassis rails as per exploded diagram on Page 3. Loosely secure side arms to chassis rail from outside face via 2 x M10 x 40mm bolts per side arm complete with 1 x washer per bolt.





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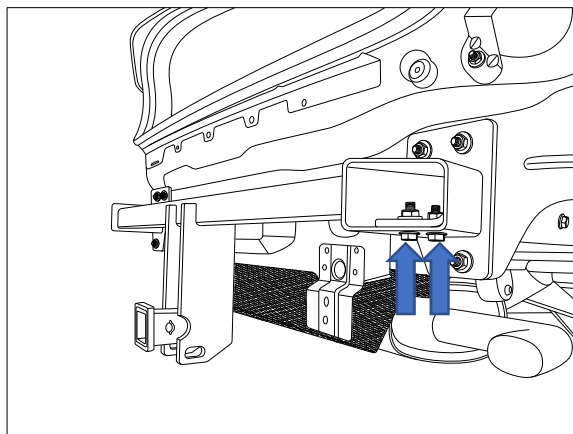
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8. Loosely secure side arms to towbar via 2 x M10 x 35mm bolts complete with 2 x washers and 1 x nut per bolt. Repeat for opposite side.

Tighten all fasteners to torques listed below:

M10 x 40mm: **48 N.m**

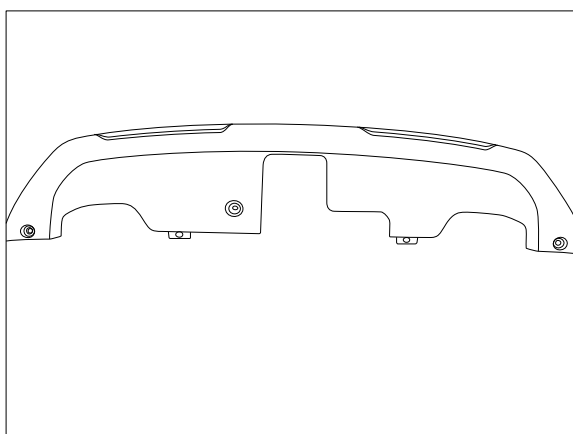
M10 x 35mm: **44 N.m**

M10 nuts on rear panel: **44 N. m**



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9. With the bumper removed, identify the bumper cut profile as marked on the inside face of the bumper near the centre. Using an appropriate tool, cut along the profile. Clean cut edges to remove any sharp burrs.

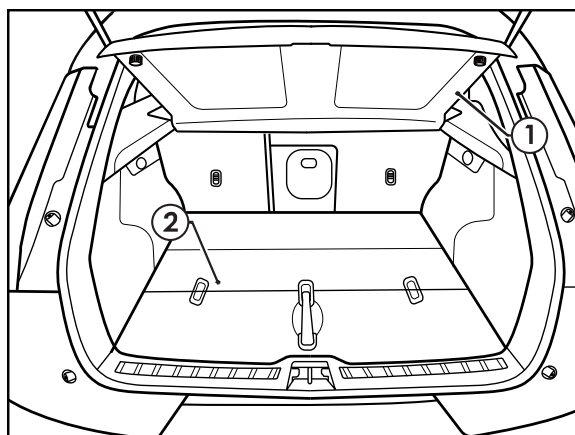
Note: Thin section of bumper cut used to feed wiring through to underside of bumper.



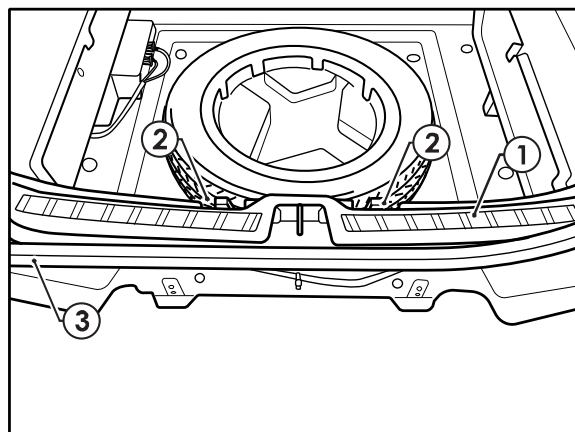
IMPORTANT

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.

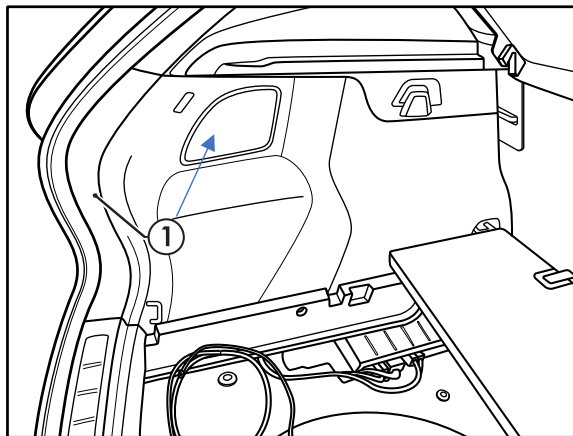
10. In the boot, remove the parcel tray (1).
11. Fold boot floor (2) back.
12. Remove wheel cover.



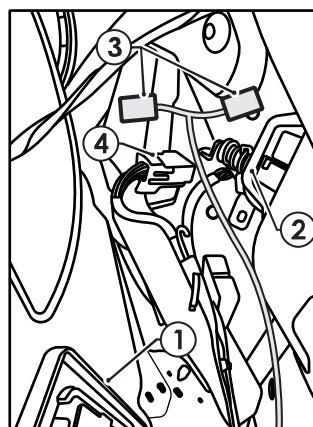
13. On the boot liner scuff trim (1), remove the two small trim covers (2) to expose the two 8mm bolts securing the rear scuff trim.
14. Remove the two 8mm bolts and remove the boot scuff trim.



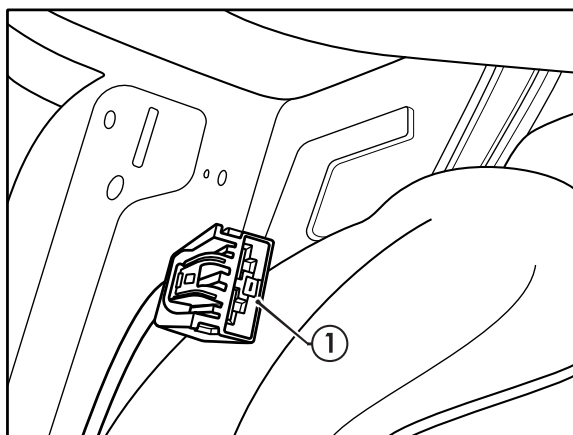
15. On the LHS remove the small rear tail light trim (1) to expose the rear tail light connector and disconnect.
16. Patch in the LHS harness (102058-WL) patch connectors between the vehicle tail light connector and the vehicle harness.
17. Route the harness behind trim and along the rear of the vehicle across to the RHS.



18. On the RHS dislodge the whole RHS trim (1) to expose the rear tail light connectors (2) and disconnect.
19. Patch in the RHS harness patch connectors (3) between the vehicle tail light (2) connector and the vehicle harness (4).



20. Locate the foam which has a 2-way connector (1) hidden.
21. Remove the foam and expose the 2-way connector (1).
22. Connect the 2-way male connector on the patch harness to the 2-way female connector (1) on the vehicle harness.



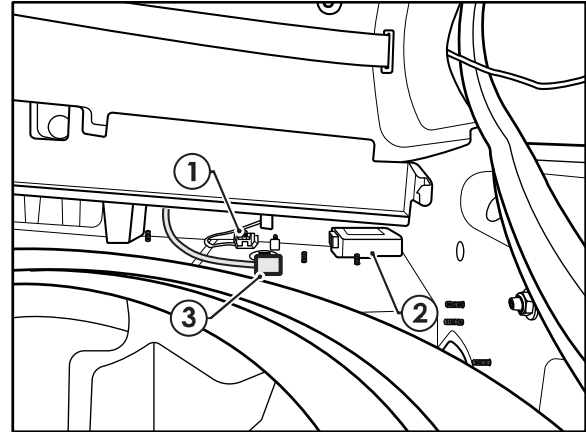


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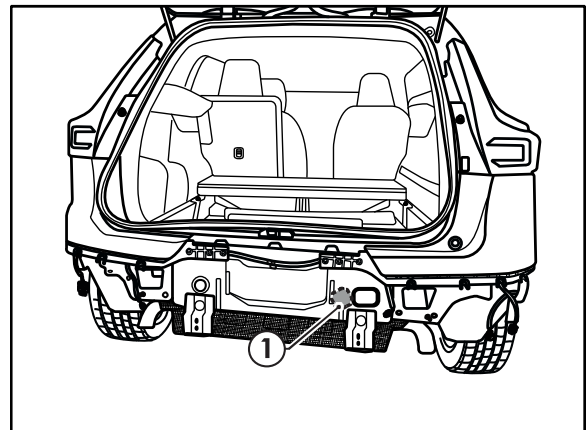
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23. On the RHS floor, connect the ground wire ring terminal to the vehicle earthing point (1).
24. Using an alcohol wipe, clean the LHS inner sheet metal area and the underside of the ECU (04836) (2).
25. Connect the trailer patch 12-way connector (3) to the ECU.
26. Apply double sided tape to the ECU (2) and secure it to the vehicle sheet metal.



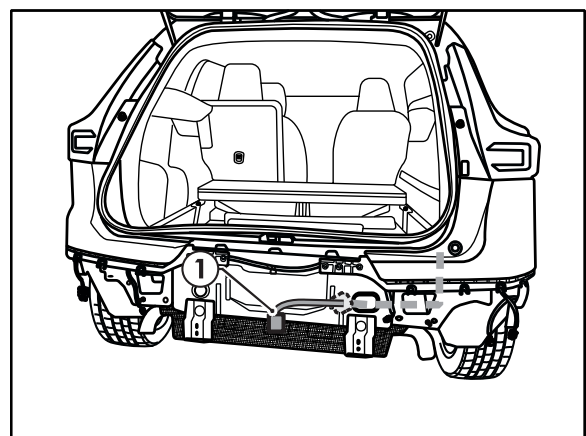
27. Drill a 30mm grommet hole (1) next to the oval blanking grommet above the exhaust to enable the tail harness (tail length 1200mm) to be routed from the towbar to inside the vehicle.



28. With the rear bumper removed, secure tail harness (1) to towbar.
29. Route tail harness (1) up through chassis rail and previously drilled grommet hole.
30. Seat grommet in 30mm 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.



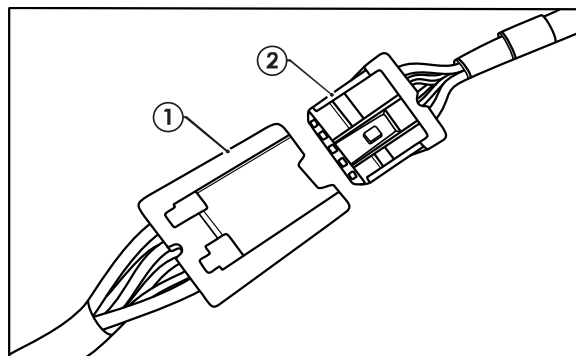


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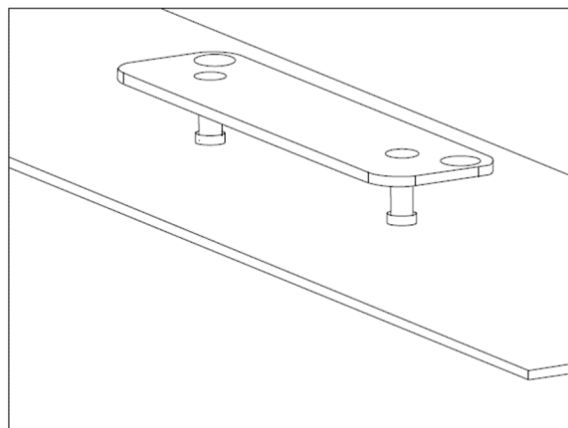
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31. Connect the tail harness 8-way connector (1) to the trailer patch 8-way mating connector (2).



32. Mark out and drill 2 x \varnothing 5mm holes 69mm apart on bumper skin just in front of thin section of bumper cut to support plug bracket.



33. Test the trailer patch function using a light board or multi-meter.
34. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
35. The RPA function can be disabled via a switch on the dashboard.
36. 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.

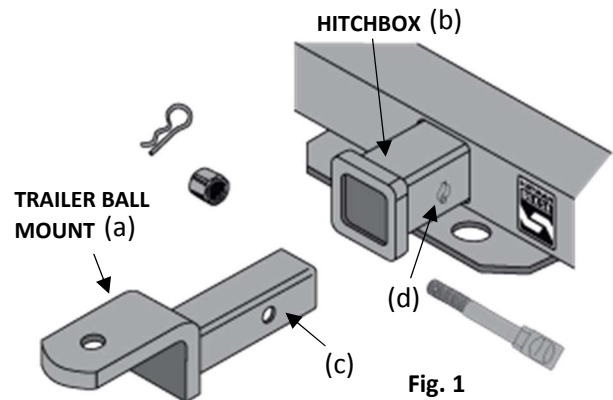
i Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- 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

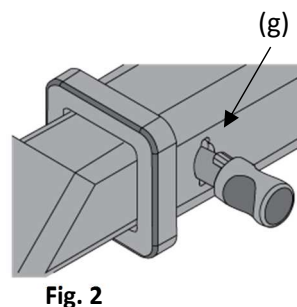
STEP 1

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



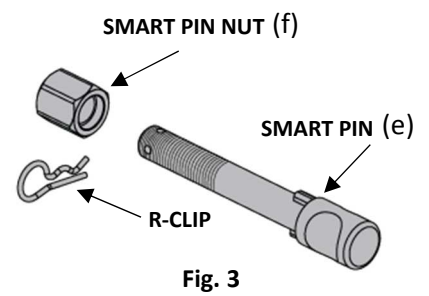
STEP 2

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)



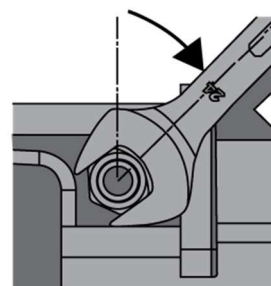
STEP 3

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)

