



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03642RW

POLESTAR 2 TOWBAR



PRODUCT DETAILS:

Part Number:	03642RW	Maximum Towing Braked:	1500	kg
ECU Number:	WLE70046	Maximum Towing Unbraked:	500	kg
Tail Harness Length Required:	1200mm	Maximum Static Ball Load:	90	kg
TBM/Lug Part Number:	21201			
Wiring Part Number:	WLL90046			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Hayman Reese SmartCODE Solution Required:	NO
Wiring Installation Time:	30 Mins.	RPA Disable/Other:	YES
Total Installation Time:	90 Mins.		
Bumper Cut Required:	YES	Note:	
			RPA disables via infotainment.



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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).

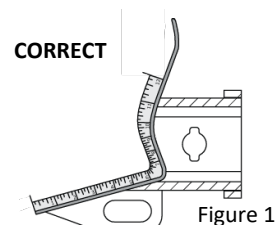


Figure 1

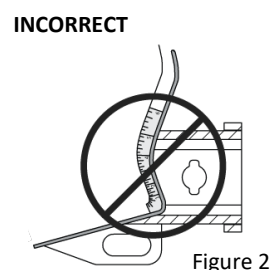


Figure 2

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

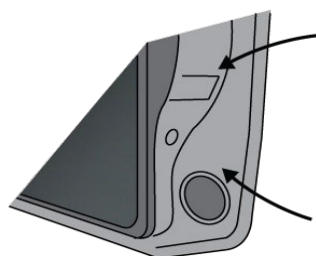
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same thread pitch and grade class are used.



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.

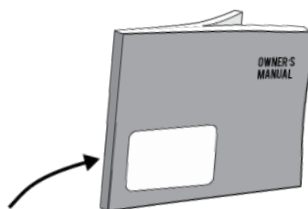
Product Labels

- 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.



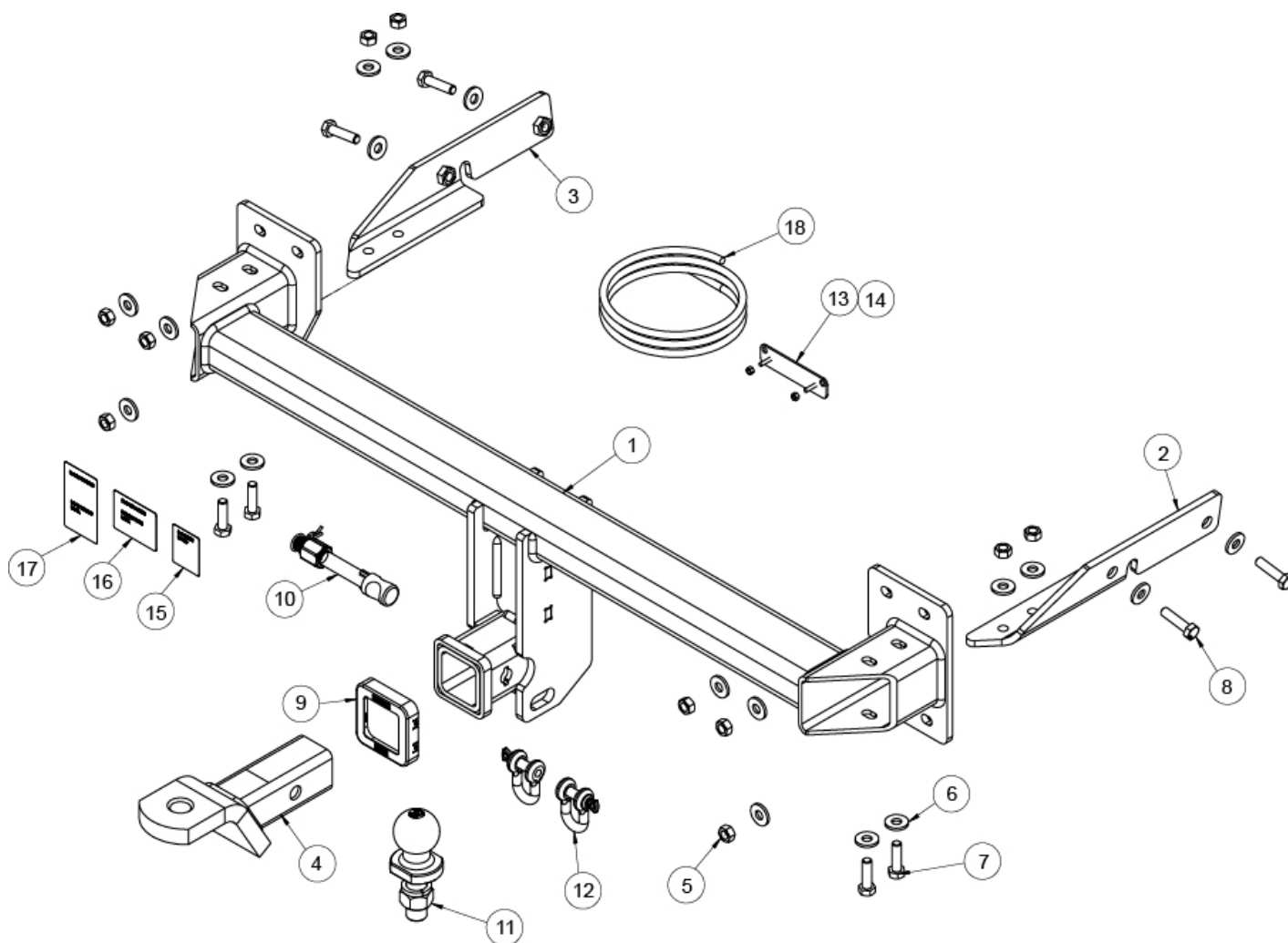
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TOWBAR ASSEMBLY DIAGRAM

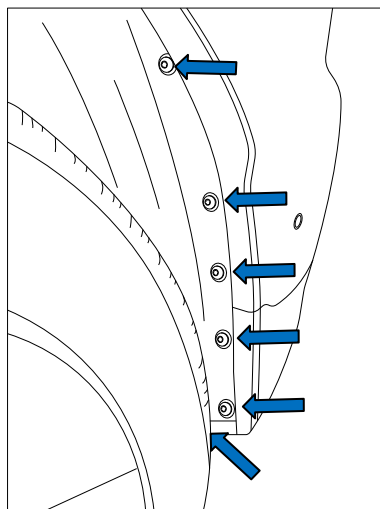


ITEM	DESCRIPTION	QTY
1	WELDED ASSEMBLY	1
2	RH SIDE ARM	1
3	LH SIDE ARM	1
4	TRAILER BALL MOUNT	1
5	NUT HEX HD M10x1.5P	10
6	WASHER PLAIN M10x25x3.0P	18
7	SCREW HEX HD M10x35x1.5P G8.8	4
8	SCREW HEX HD M10x40x1.25P G8.8	4
9	HITCH BOX COLLAR COVER	1

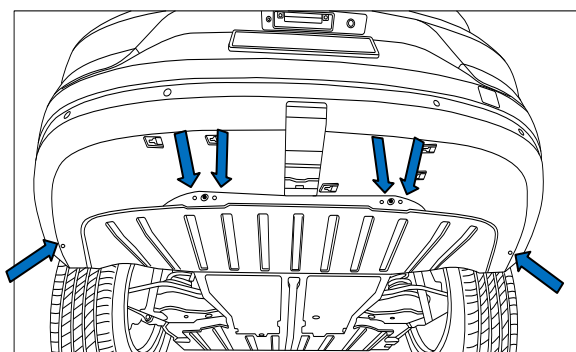
ITEM	DESCRIPTION	QTY
10	SMART PIN GOLD	1
11	TOWBALL 50mm	1
12	D-SHACKLE 10mm	2
13	PLUG BRACKET	1
14	NUT NYLOC HEX HD M4x0.7P G8	2
15	HAYMAN REESE LOGO STICKER	1
16	COMPLIANCE LABEL	1
17	LOAD RATING LABEL	1
18	WIRE LOOM	1

1. Remove 6 x screws from the wheel arch.

Repeat other side.

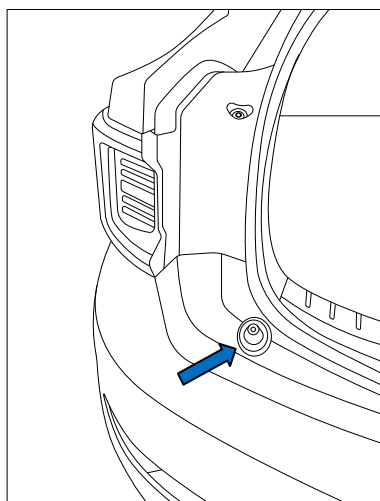


2. Remove 6 x screws from the under panel



3. Open the tailgate and remove the bump stop.

Repeat other side.





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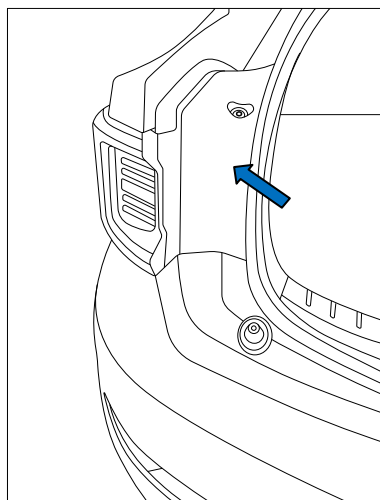
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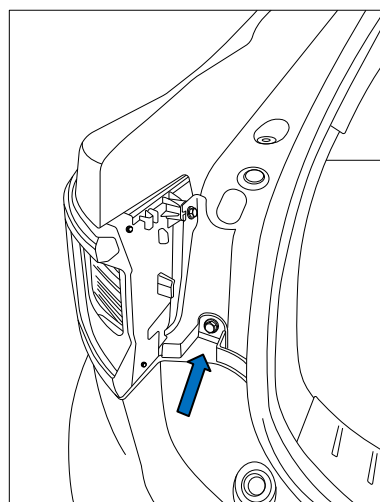
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4. Using a trim tool remove the taillight cover

Repeat for other side.

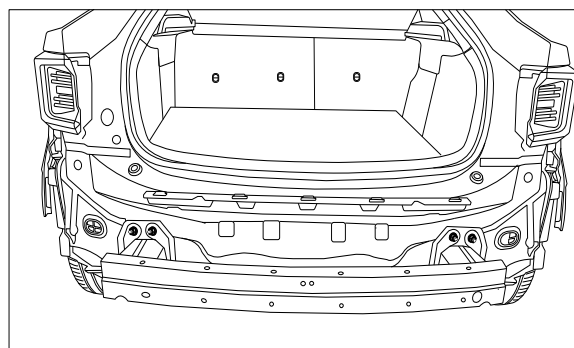


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5. Remove screw under tail light cover retaining the bumper.

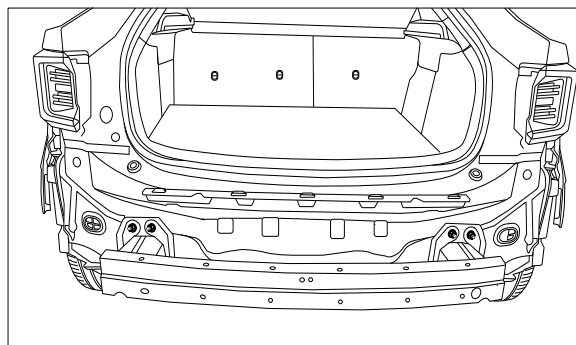


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6. Carefully Peel bumper away from the sides and remove bumper. Ensure to disconnect the wiring loom located on each side of the bumper.

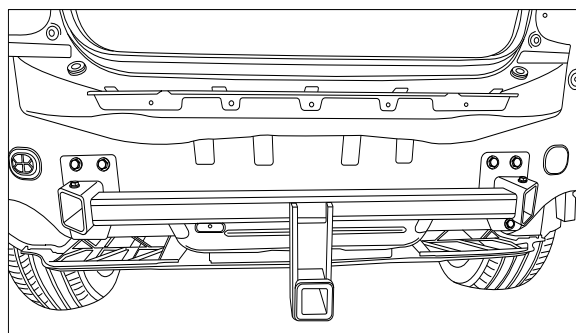
May require two people for this step.



7. Remove impact beam via 6 x M10 nuts and discard.

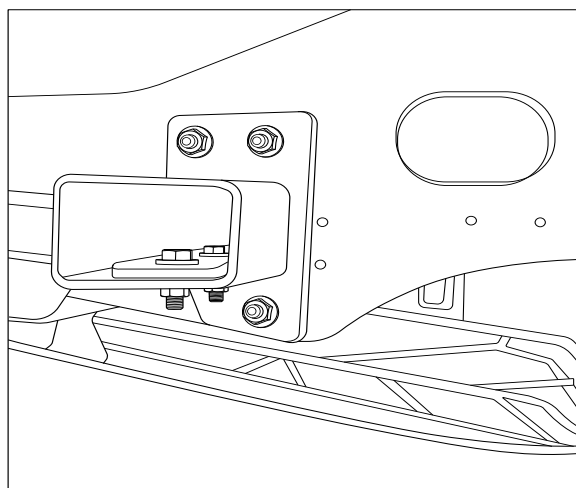


8. Loosely secure the centre-welded towbar section using the 6 x M10 x 1.5P Nuts and 6x M10 Washers.



9. Insert the RHS side arm and loosely assembly 2 x M10 x 1.5P x 35mm with 2 x M10 Washer and 1 x M10 x 1.5P Nut per Bolt.

Repeat for other side.





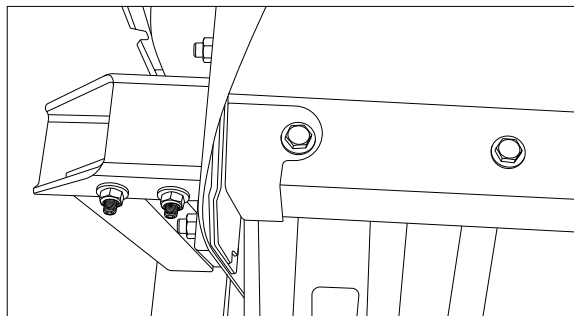
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10. loosely assemble the side arm to the chassis rail
2 x M10 x 1.25P x 40mm with 1 x M10 Washer
per bolt.

Repeat for other side.



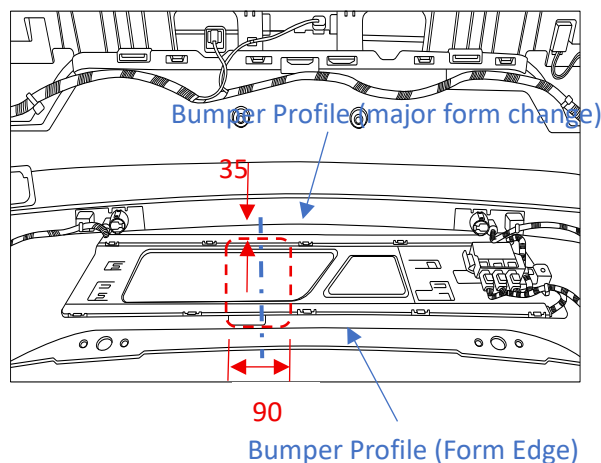
11. Tighten all fasteners to the following torque.

M10 x 1.25P: 48Nm

M10 x 1.5P: 44Nm

12. Carefully Remove the Sensor strips from its backing and remove the sensor strips from the backing plate.

Identify the centre of the bumper between the two outer bumper faces. Mark 45mm each side of the centre line - 35mm from Major Bumper Profile (Form change) and – along the lower Bumper Profile (Form Edge) as shown and Cut out the Towbar Hole in the Bumper.





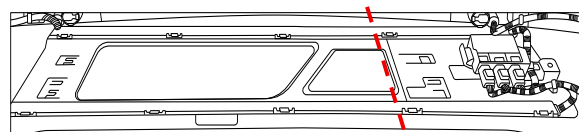
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13. With the Sensor Bracket detached from the bumper and the sensors loose cut the bracket back such that it only contains and attaches the Electronic Module.

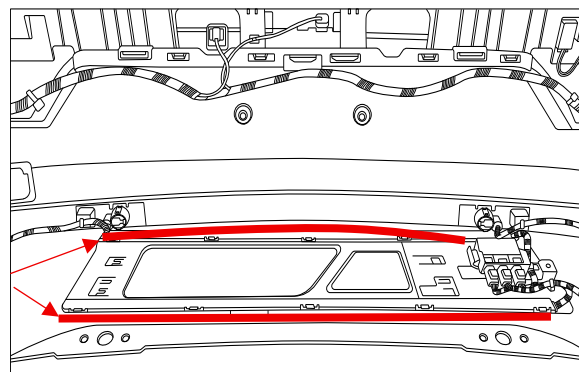


Trim this Side off

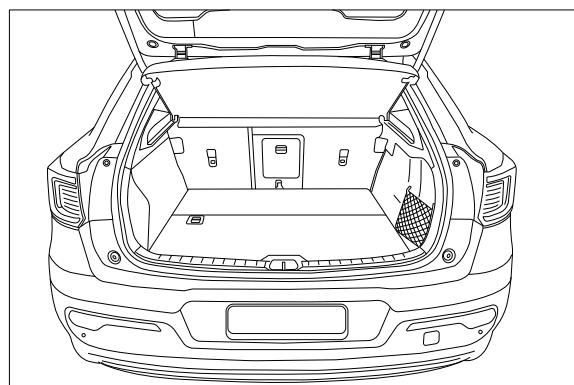
Keep this side

Reassembled the Sensor Bracket and Module to the bumper and apply double sided automotive tape to the back of the sensor strips and stick them directly to the bumper.

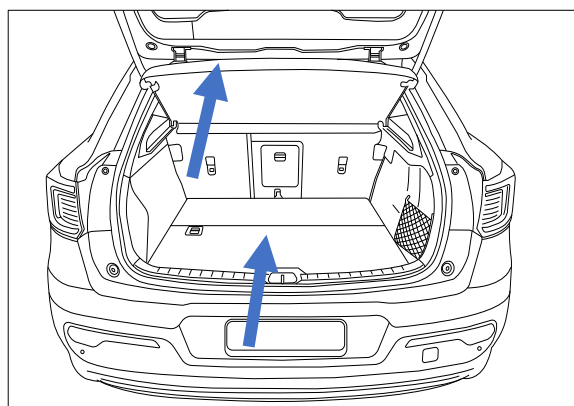
With the strips spread as far apart as possible as indicated.



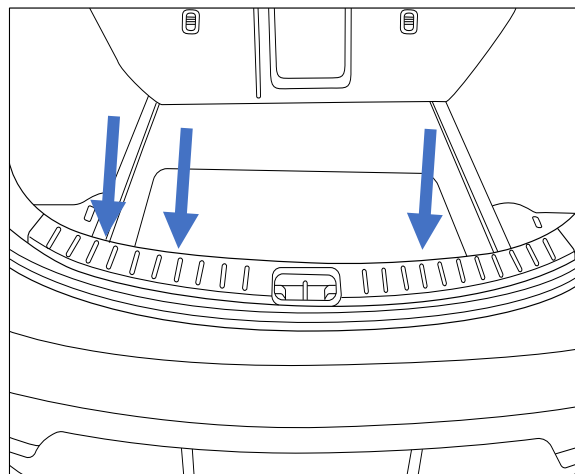
14. Open vehicle tailgate and disconnect battery.



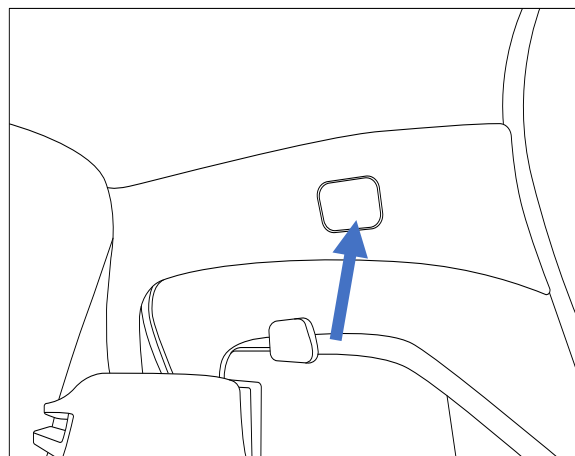
15. Remove rear cargo tray and floor carpet and fold rear seats.



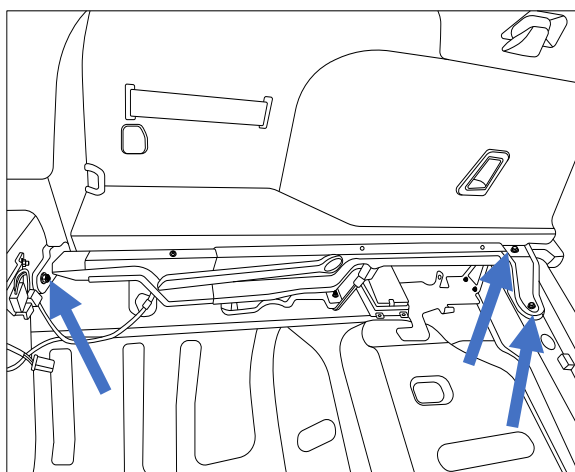
16. Use an 8mm socket to remove the bolts for the rear scuff trim from the vehicle. Ensure that you remove the connector on the bottom left and remove trim from vehicle.



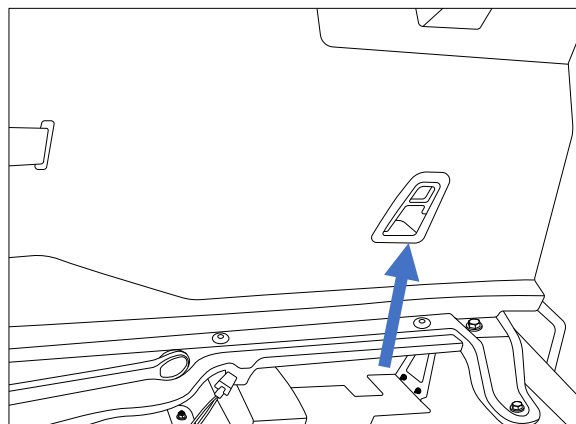
17. Use a trim tool to remove the AIRBAG sign and use an 8mm socket to remove the rear LHS upper cargo trim from the vehicle.



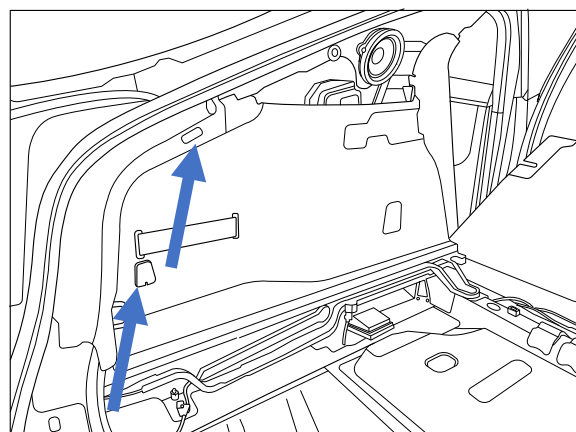
18. Using an 8mm socket, loosen the bolts shown to remove the rear LHS cargo lower trim rail.



19. Along the rear LHS lower trim, locate the cargo tie down point. Using an 8mm spanner, open the hook to loosen the bolt and remove it.

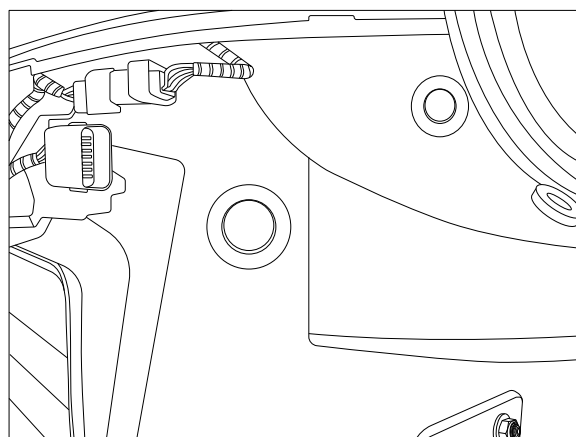


20. Remove the rear LHS lower cargo trim. Dislodge the trim to remove the 2 connectors for the 12V socket and the cargo light before completely removing.



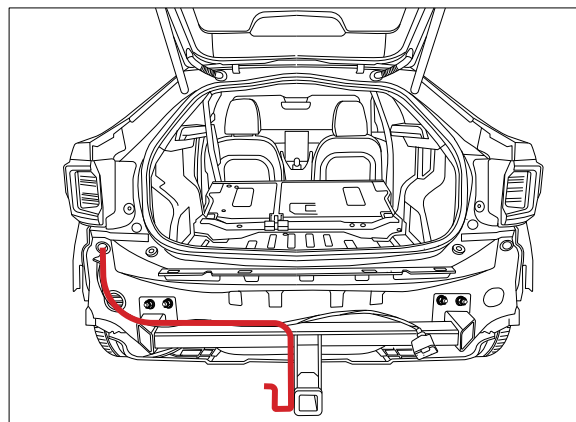
21. Remove the blanking grommet. Using a step drill, drill out the hole to Ø30mm.

Note: Spray rust inhibitor on the edges of the hole and clean up any sharp edges.

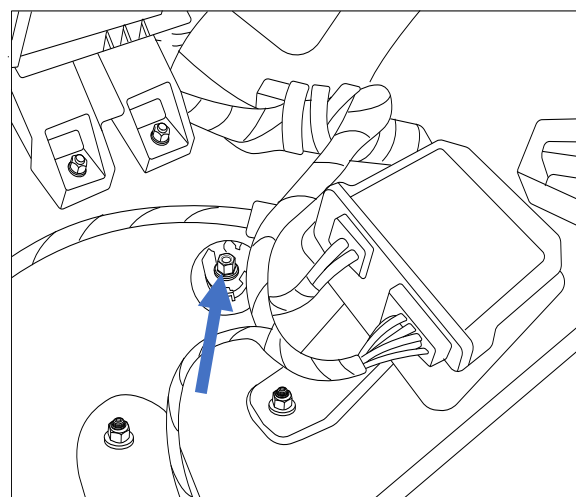


22. Feed the tail harness connector through the hole, ensuring enough slack for the trailer socket to be mounted.

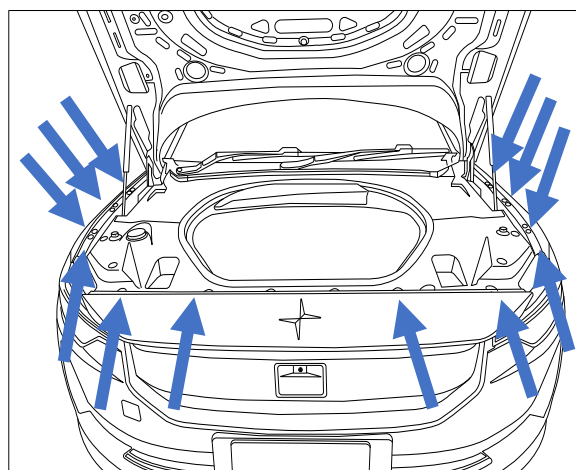
Slide the grommet to the desired location and secure to the loom with a cable tie (not supplied).



23. Locate the trailer patch ground ring terminal. Secure this to the vehicle ground point as shown.



24. Open the frunk and remove 12 push pins for the 2 trim panels to access the fuse box.





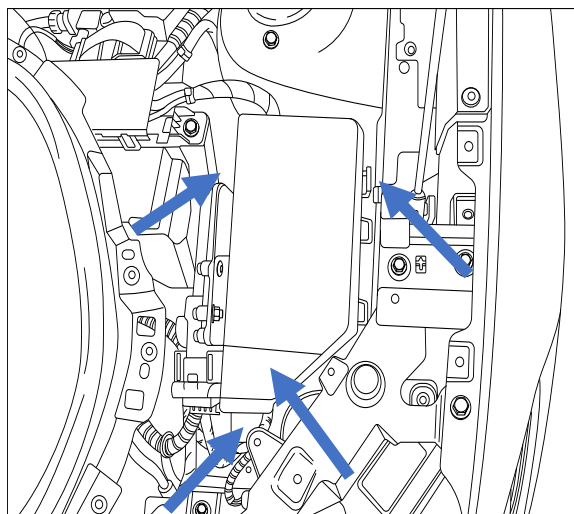
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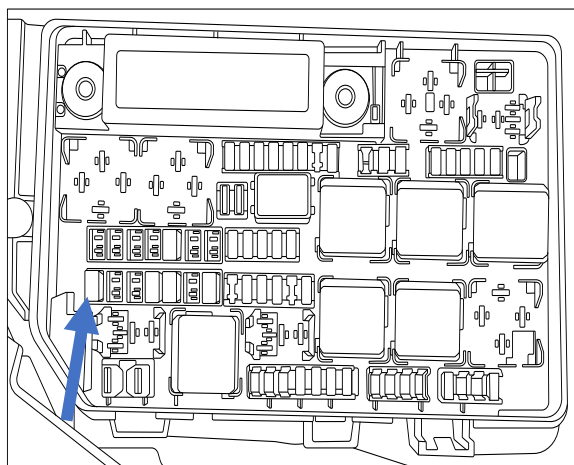
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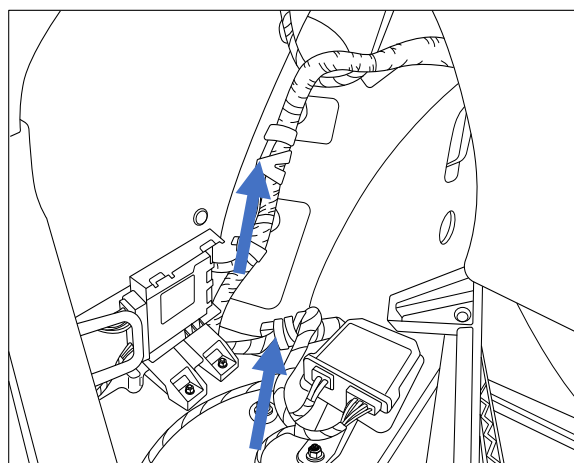
25. Remove the lid of the fuse box by releasing the small lid first, revealing the 3rd latch for the large lid.



26. Locate the EF42 fuse position and replace the 40A fuse with the 20A fuse.

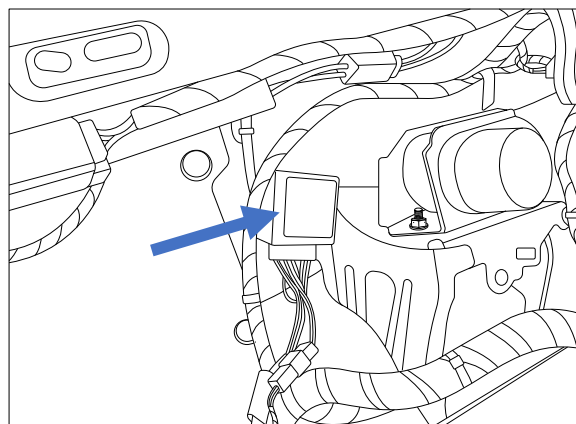


27. Remove the tape to locate the green 7-way and the white 2-way pre-wire connectors. Plug this into the trailer patch mating connectors.



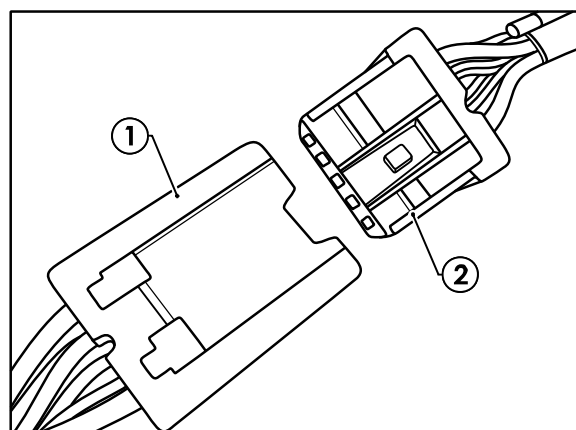
28. Locate the ECU connector on the trailer patch and plug this into the ECU.

Use the tape provided to mount the ECU in the location shown. Apply pressure to allow for good adhesion.



29. Plug the trailer patch blue connector into the mating tail harness connector.

Route the rest of the patch harness along the vehicle loom and secure with cable ties where necessary (not supplied).



30. Reinstall the Bumper following steps 1-6 in reverse.



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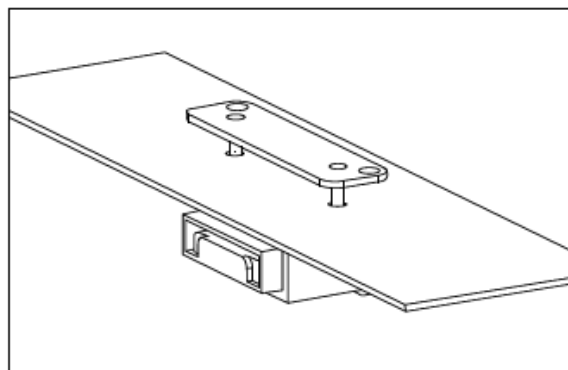
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31. Find a suitable position on the bumper for the plug bracket.

Mark out and drill 2x $\varnothing 5\text{mm}$ holes 69mm apart on bumper skin to support plug bracket. Feed bracket threads through drilled holes prior to reinstalling bumper.



-
32. Reinstall all removed parts.
Reconnect the battery.
Test trailer harness function using a trailer test board.
Place fitting instructions in the glove box once complete.



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.



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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).

