

HAYMAN REESE
PART No: 03266RW
TOYOTA PRADO FLAT TAIL GATE CL4
INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT
PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION IS COMPLETED



Installation Time: Approx 80 Mins

Towbar Installation Instructions

TOYOTA PRADO FLAT TAIL GATE CL4

Part Number **03266RW**

Towbar capacity:

Max Towing Braked 3000kg

Max Towing Unbraked 750kg

Max Static Ball Load 300kg

ECR Required Part No. 04826

Tail Harness Length Required: 1200mm

Hayman Reese (Cequent)
PO Box 4050, Dandenong South VIC 3164
Phone 1800 812 017 Email info@haymanreese.com.au

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Warning:

1. Do not, drill, cut, weld or otherwise modify the towbar.
2. If you are using electric welding on a motor vehicle, **always** check that the vehicle is not equipped with electronic engine or instrument management equipment. Failure to do so could **destroy** any on board computers. If in doubt, check with the vehicle's manufacturer.
3. If TBM is used in inverted position tow ball may make contact with rear tailgate when lowered, which could cause damage.

General:

1. Ensure all hardware items have been included refer to assembly diagram.
2. It is recommended that the instructions are read through and completely understood before making any attempt to fit this product.
3. Be wary of any changes to vehicle designs or other accessories that may conflict with the installation of this product.
4. Before drilling ensure that the area is clear of fuel, electrical & other components.
5. All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.
6. The high tensile fasteners supplied with this product were used to achieve the specified rating. If replacement is required ensure that fasteners of the same rating & quality are used. Contact an authorised **Hayman Reese** dealer if further information is required.
7. Ensure that all hardware is fastened to torque list below check fasteners on regular basis.
8. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door. **(See diagram below).**
9. Hayman Reese recommends that you check your tow ball to ensure that it complies with the Australian standards **AS 4177.2**.
10. **PLEASE NOTE:** It is advised to remove your LUG or TBM when not actually towing so as to produce a clear view of the vehicles registration plate if obscured, and to also provide maximum available departure angle.

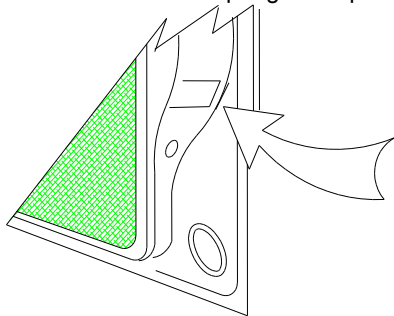
Tow bar Maintenance and Care.

Hayman Reese recommends that bolt torque's, as listed below, are routinely and regularly inspected and checked for correct tension. Replace any worn or defective parts.

We recommended to remove Tow Ball Mounts (TBM's, tongues or lugs) when not being used for any considerable length of time.

So as to avoid injury, when not towing it is suggested that the tongue, Pull Pin and R-clip are removed then stored in a safe, clean and dry place, away from excessive moisture.

Hitch Pull Pins and spring "R" clips are regularly checked for proper installation. Replace any worn or defective parts.



Place load rating sticker
inside driver's door here

FOR TOWING PURPOSES ONLY

For towing capacity details please refer to vehicle owner's manual or to the manufacturer. Overloading can void your warranties.

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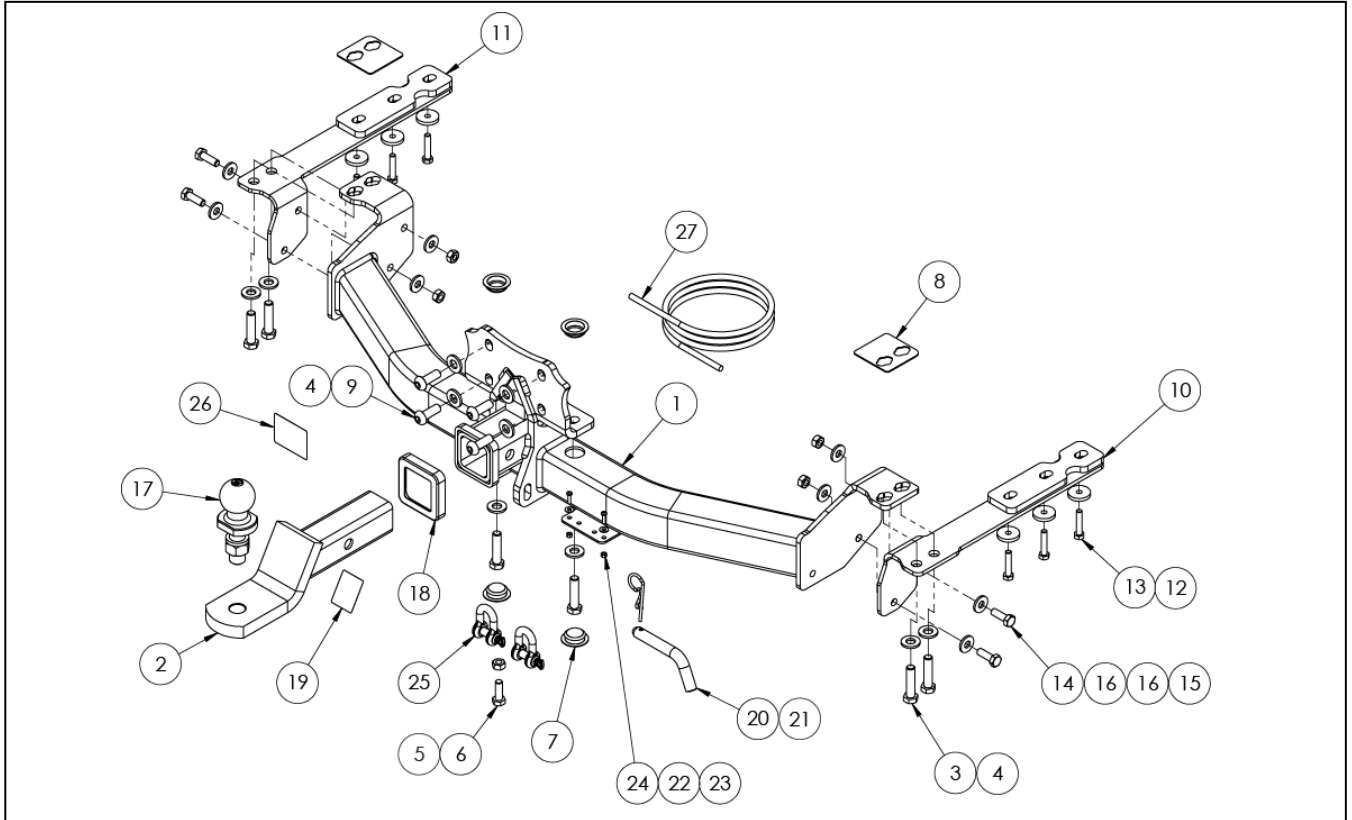
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ITEM	DESCRIPTION	QTY
1	WELDED ASSEMBLY	1
2	CLASS 4 TBM	1
3	SET SCREW M12-1.25x50 GR 8.8 Z/P	6
4	WASHER PLAIN 1/2X1-1/8X16G	10
5	HEX NUT M10x1.5	1
6	SETSCREW HXHD M10X30X1.5P G8.8	1
7	PLASTIC CAP BLACK	4
8	SHIM PLATE	2
9	SCREW BUTTON M12 X35X 1.25P G12.9	4
10	TOYOTA PRADO RH SIDE ARM ASSY	1
11	TOYOTA PRADO LH SIDE ARM ASSY	1
12	WASHER FT M8 - 8.1 X 32 X 5MM Z/P	6
13	M8 x 40mm BOLT	6
14	SETSCREW HEX HD M10 X 30 X 1.25 G8.8	4

ITEM	DESCRIPTION	QTY
15	NUT HEX HD M10 X 1.25P G8	4
16	WASHER PLAIN M10 X 25 X 3	8
17	HR TOWBALL	1
18	HITCH BOX COLLAR COVER	1
19	H.R STICKER	1
20	PULL PIN	1
21	SPRING COTTER PIN ASSY	1
22	WASHER PLAIN3/16 X 1/2 X 20G	2
23	SCREW PAN HD M4 X 16 X 0.7P G4.6	2
24	NUT NYLON LOCK HEX HD M4X0.7P G8	2
25	10mm "D" SHACKLE	2
26	ACRYLIC COMPLIANCE LABEL	1
27	WIRING LOOM	1

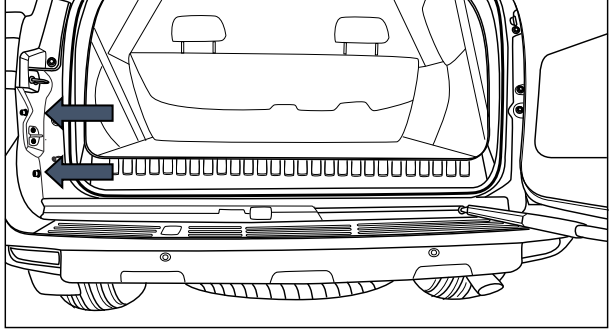
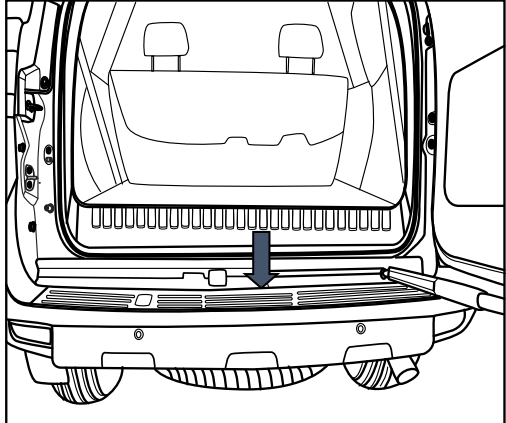
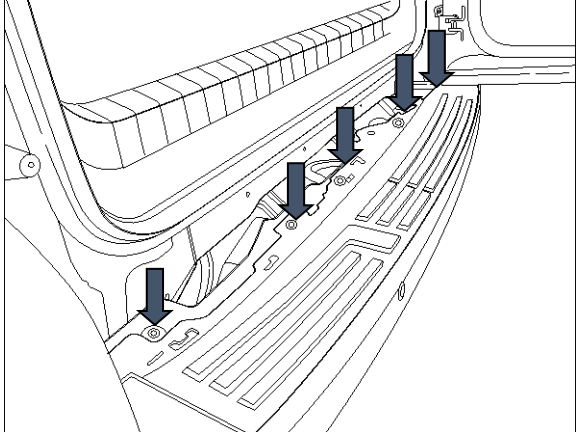
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<p>1. Lower spare wheel using spare wheel kit located on the inside panel of the rear door.</p> <p>2. Release the tailgate to expose the rear cabin. Remove 2 x scrivets located around boot opening.</p>	
<p>3. Using a trim removal tool, carefully extract the rear garnish on top of the bumper.</p>	
<p>4. With the bumper fully exposed, remove 5 x set screws located behind plastic trim.</p>	

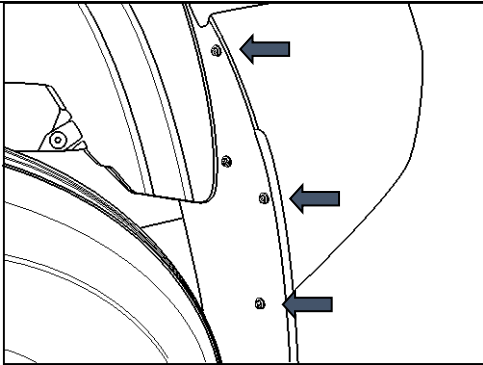
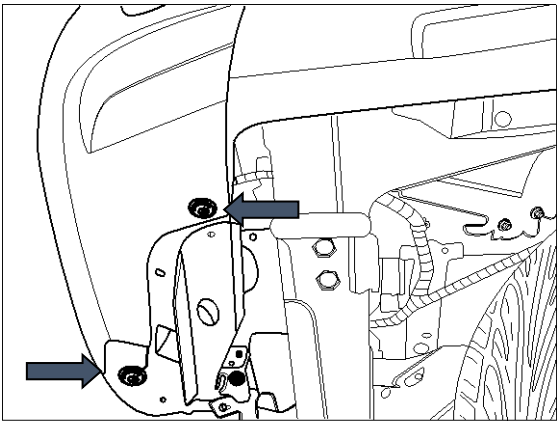
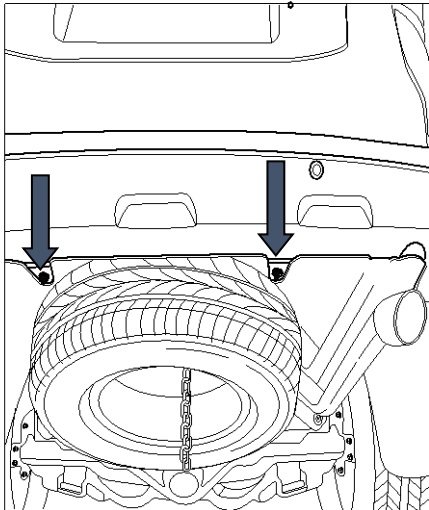
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<p>5. On the inside of the wheel arch, remove 1 x set screw and 2 x scrivenets.</p> <p>Repeat for opposite side.</p>	
<p>6. Remove 1 x screw and 1 x scrivenet from underneath vehicle on the side.</p> <p>Repeat for the opposite side.</p>	
<p>7. Remove 2 x screws from rear bumper fascia lip on underside of vehicle.</p>	

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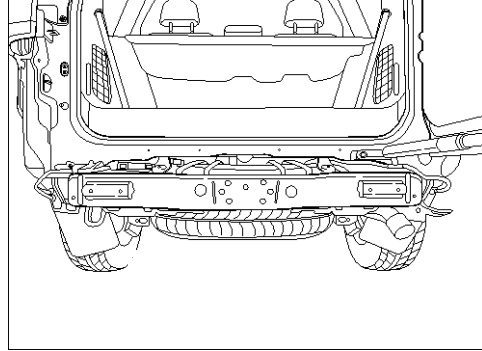


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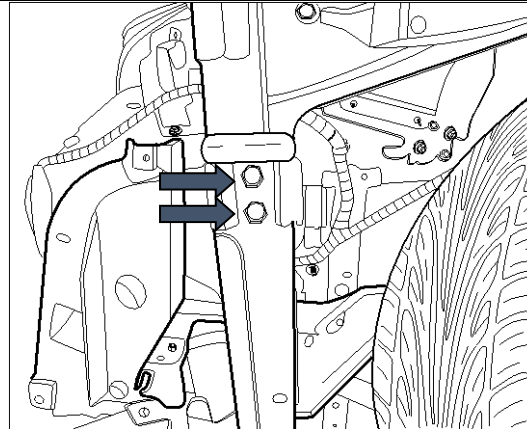
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8. Unclip wiring harness connectors on passenger side and reverse sensors if fitted. Repeat for other side.

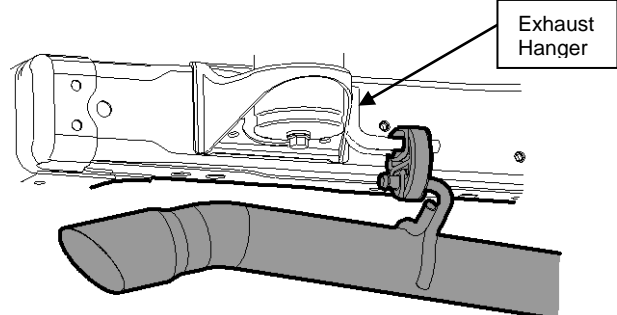
9. Using two people, carefully unclip the bumper assembly and set aside.



10. On the passenger side remove 2 x Set screws and discard the factory shipping hook.



11. Lower exhaust by unhooking from rear most hanger. Lower and support exhaust.



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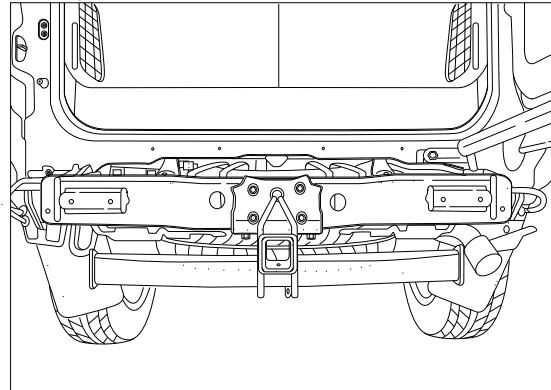
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12. Offer the Towbar to the vehicle and loosely secure the bar using the 2 x M12 x 50 x 1.25P Set screws with flat washers to the centre mount on bottom side.

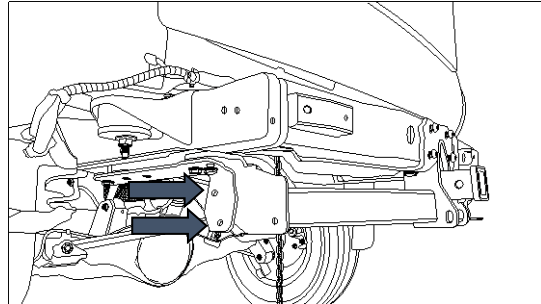
NOTE: Access holes are designed into the towbar for access to the centre vertical mounts.

Use the 4 x Button Head M12 x 35 x 1.25 P to secure the towbar onto the centre mount of the vehicle.



13. Loosely secure side arm to towbar with 2 x M10 x 30mm bolt complete with 2 x washers and 1 x nut per bolt.

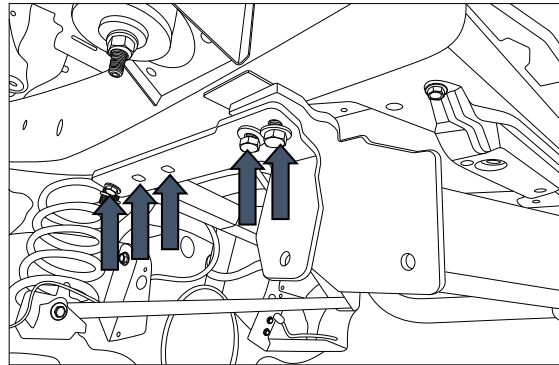
Repeat for opposite side.



14. Loosely secure side arms to chassis rail with 3 x M8 x 40mm bolts complete with 1 x washer per bolt on 3 x forward most mounting points.

Secure side arm and towbar to chassis rail with 2 x M12 x 50 Set screws with flat washers and shim plates on rear horizontal mounts.

Repeat for opposite side.



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15. With the Towbar loosely secure, it is critical that the factory spare tyre be reset. Push forward on the tyre to the front of the vehicle. Whilst completing this action raise the spare tyre back into place. This will provide sufficient clearance and satisfy the design condition for the towbar.

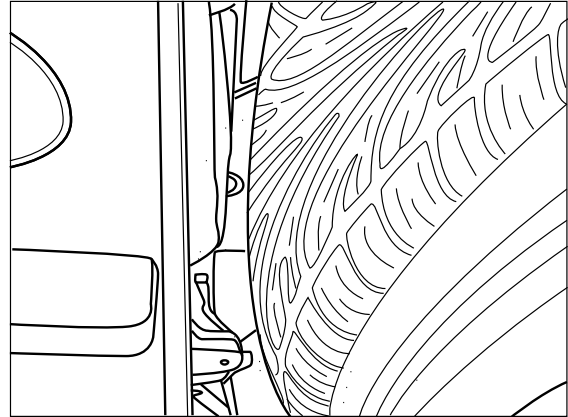
Tighten all fasteners to the torques listed below:

M8 x 40mm x G8.8: 22 N.m

M10 x 30mm x G8.8: 48 N.m

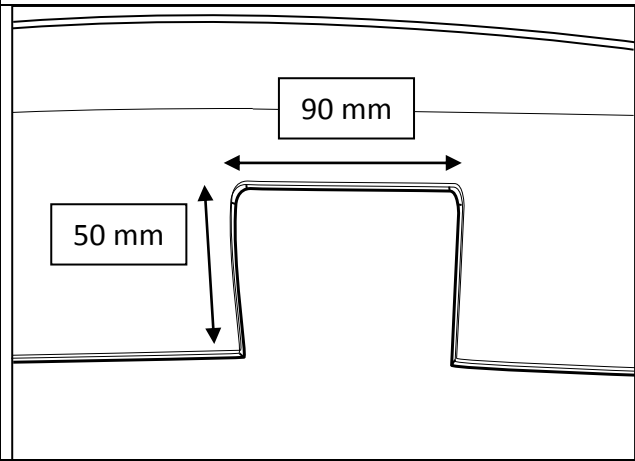
M12 x 50mm x G8.8: 89 N.m

M12 x 35mm x G12.9: 130 N.m



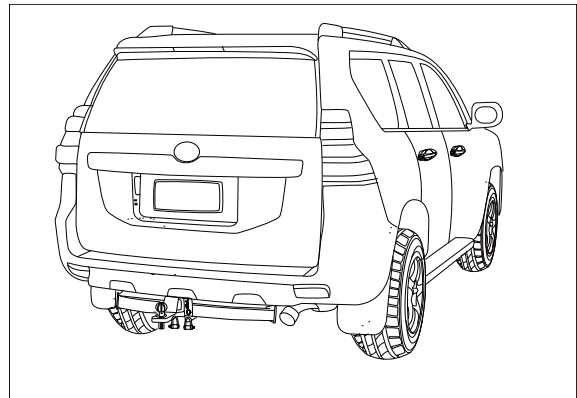
16. Identify the centreline of the bumper. Measure and mark a 50mm tall x 90mm wide rectangle as measured from the bottom edge of the bumper.

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



17. Reassemble the bumper bar assembly in the reverse order of removal.

Note: Due to the limited packaging space there may be contact between the Towbar and Bumper. This is a design condition of the towbar and is of no concern.



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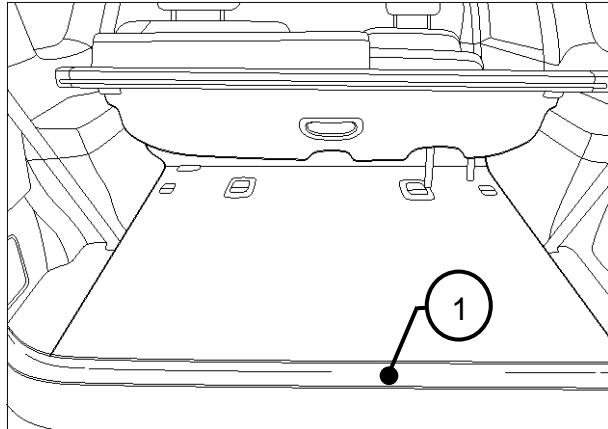
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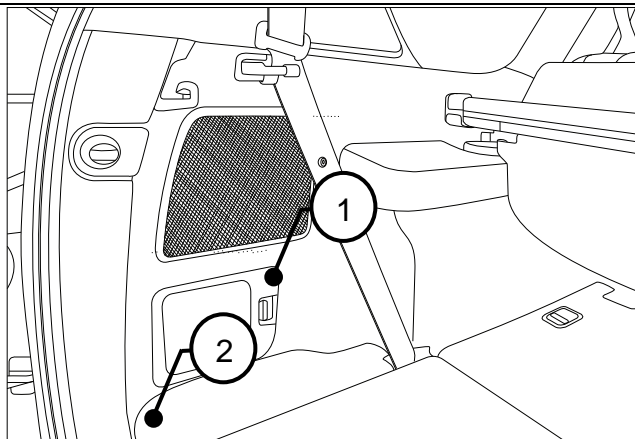
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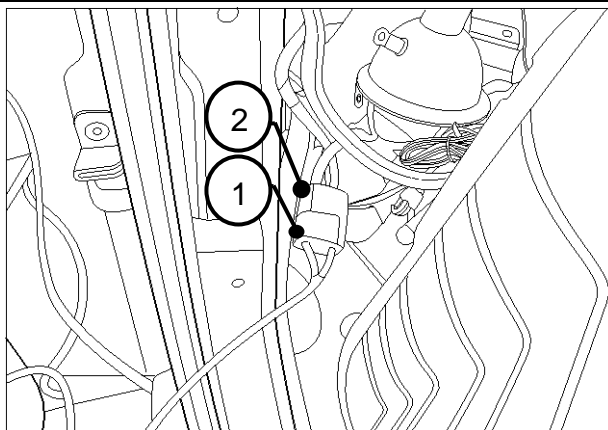
18. In the luggage compartment, remove the rear trim (1) from the vehicle.



19. Remove the lower access panel (1). Remove the LHS luggage compartment trim clip (2) this will allow for dislodging the trim to access the rear quarter area.



20. Connect the Trailer Patch Harness (P/No: 100210-WL) (1) to the vehicle breakout connector (2).



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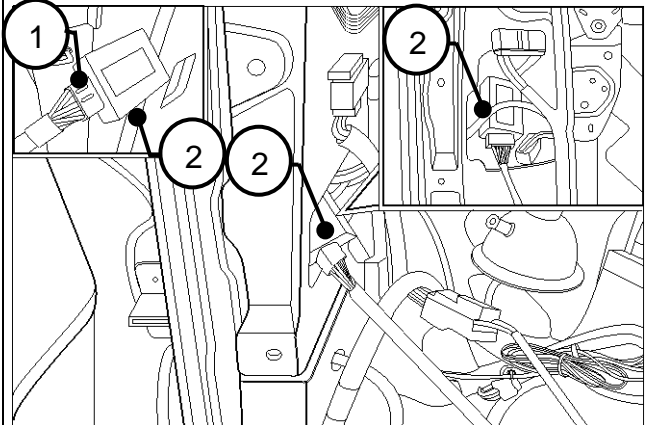
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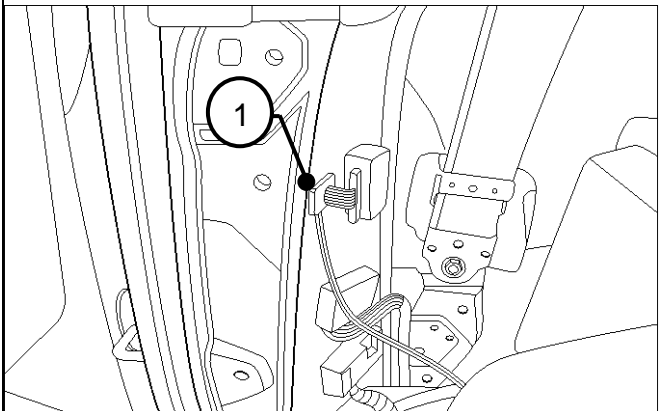
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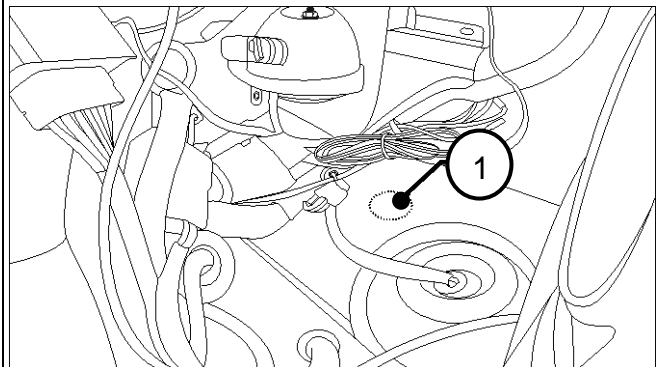
21. Connect the Trailer Patch Harness (1) to the ECU module (2). Adhere the ECU module (2) to the indicated location in the cavity below the LHS tail light. **Ensure the ECU is mounted with the connector facing downwards.**



22. Secure the earth ring terminal to the earthing point (1).



23. Drill a Ø30mm hole in the indicated location (1). File back any ruff edges and spray the hole with a rust inhibitor.



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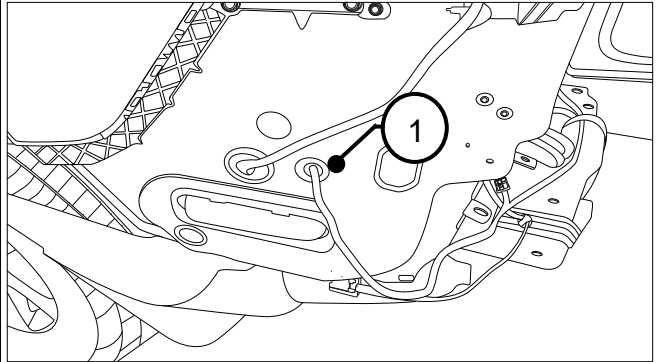
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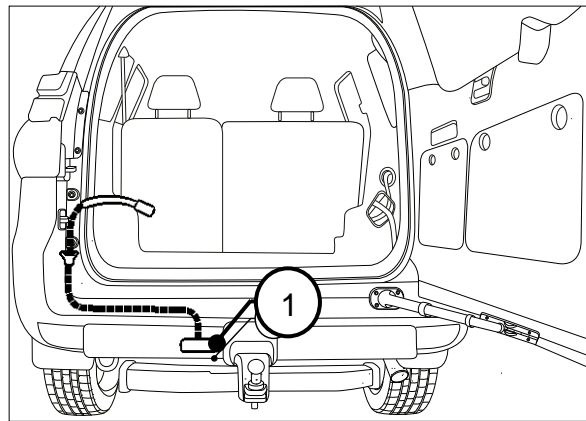
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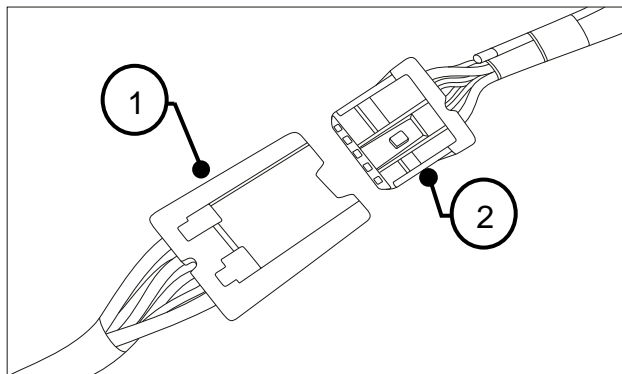
24. On the exterior LHS rear quarter area above the vent, drill the smaller existing vehicle grommet out to Ø30mm hole in the indicated location (1). File back any rough edges and apply rust inhibitor.



25. Secure the Tail Harness (Tail length 1200mm) trailer socket (1) to the towbar mounting bracket using M4 fasteners.
26. Route the Tail Harness over to the previously drilled hole and feed the connector into the vehicle. **Route to the exterior LHS grommet.**
27. Adjust the harness grommet to the required position and secure grommet with a cable tie and then secure the grommet in place.
28. Secure the harness to the towbar using cable ties.



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



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- 30. Test the body harness using a light board or multimeter.
- 31. Secure all harnesses using cable ties (not supplied).
- 32. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
- 33. Place the instructions in the glove box after fitment.

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