

HAYMAN REESE
PART No: 03165RW
AUDI Q7 4M SERIES

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 90 Mins

Towbar Installation Instructions

Towbar capacity

AUDI Q7 4M SERIES

Part Number 03165RW

Max Towing Braked 3500 kg
Max Towing Unbraked 750kg
Max Static Ball Load 350kg

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. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door. **(See diagram below).**
8. Hayman Reese recommends that you check your tow ball to ensure that it complies with the Australian standards **AS 4177.2**.
9. **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.

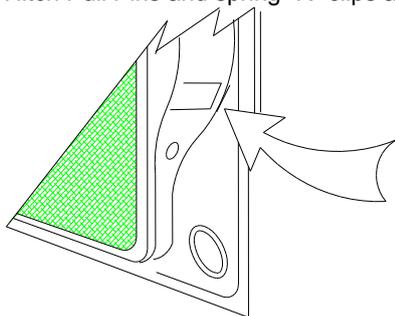
Tow bar Maintenance and Care.

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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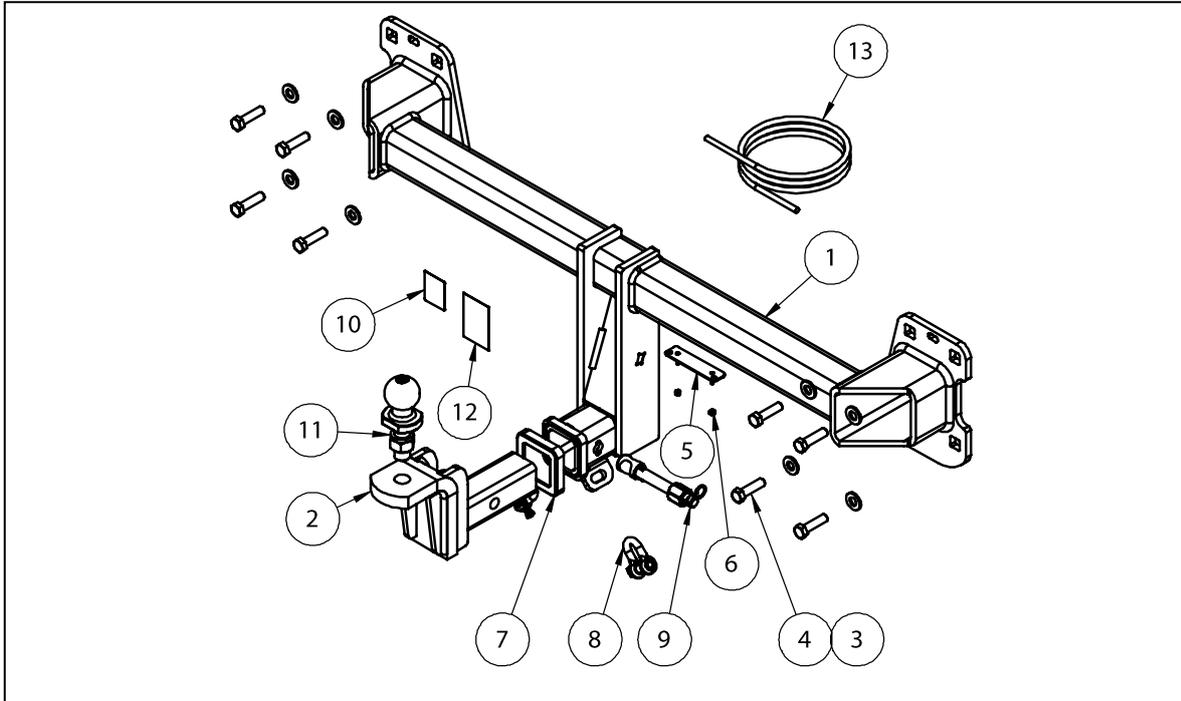
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ITEM NO.	DESCRIPTION	QTY.
1	AUDI QY QUATTRO 4M WELDED ASSY	1
2	CL4 TBM ASSY	1
3	WASHER FLAT 1/2"x1 1/8"x1/8"	8
4	SET SCREW M12x45x1.5P GR10.9	8
5	PLUG BRACKET	1
6	NUT NYLOC M4-0.7 Z/P	2
7	HITCH BOX COLLAR COVER	1
8	10mm "D" SHACKLE	2
9	ANTI-RATTLE PULL PIN ASSY GOLD	1
10	H.R STICKER	1
11	HR TOWBALL	1
12	ACRYLIC COMPLIANCE PLATE	1
13	WIRING LOOM	1

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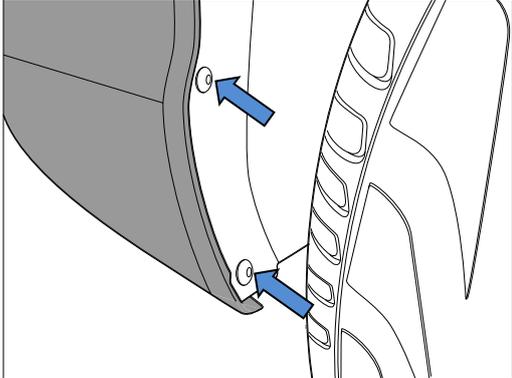
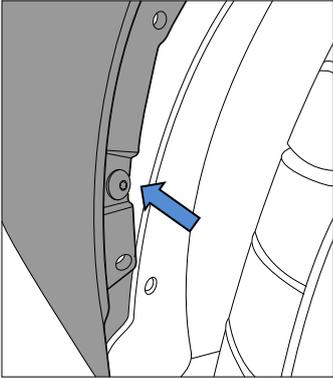
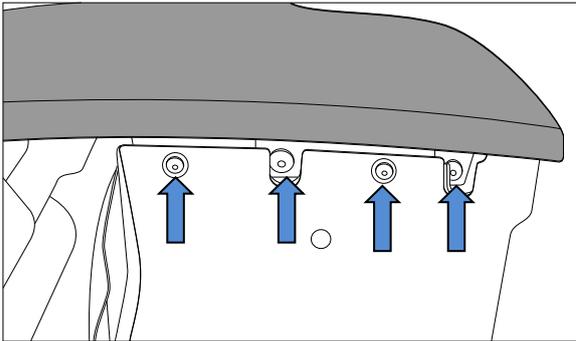
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<p>1. Remove 2 x Torx screws from inside the rear wheel arch.</p> <p>Repeat for other side of vehicle.</p>	
<p>2. In rear wheel arch, lift felt and remove 1 x Torx screw securing bumper.</p> <p>Repeat for other side of vehicle.</p>	
<p>3. Under side of bumper rear of the arch, remove 4 x Torx screws:</p> <ul style="list-style-type: none">• 2 x securing protector to bumper.• 2 x securing bumper to vehicle mounts. <p>Repeat for other side of vehicle.</p>	

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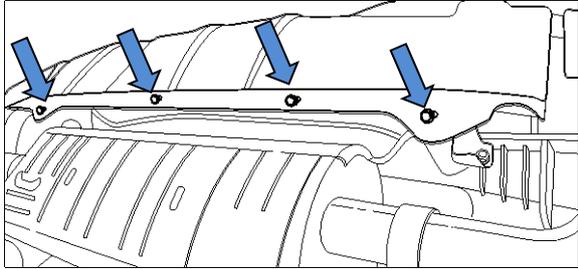
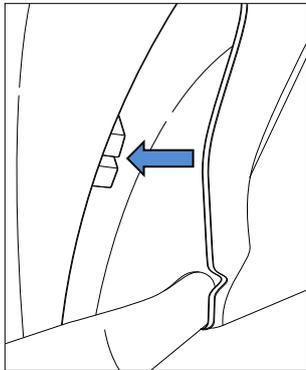
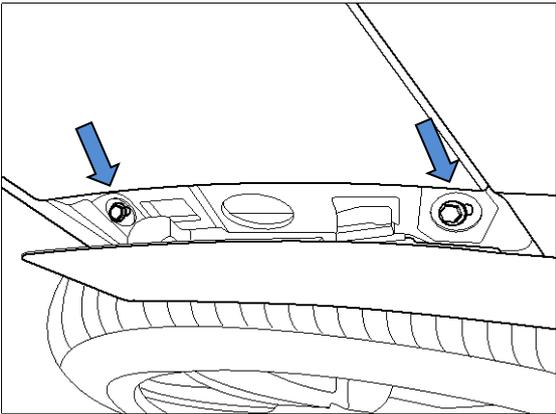
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<p>4. Remove 4 x Torx screws at underside of rear of bumper.</p>	
<p>5. Inside wheel arch, remove 1 x nut securing wheel arch TRIM.</p> <p>Repeat for other side of vehicle.</p>	
<p>6. Partially remove wheel arch trim and remove 2 x Torx screws securing the bumper to the vehicle.</p> <p>NOTE: The 2 x wheel arch trim clips need to be squeezed and pushed out of the retainers.</p> <p>Repeat for other side of vehicle.</p> <p>7. Carefully peel off and remove bumper.</p> <p>NOTE: It is not necessary to disconnect the wiring harness from the bumper (lead on the LH side), however, have a suitable area next to vehicle to support the bumper once removed.</p>	

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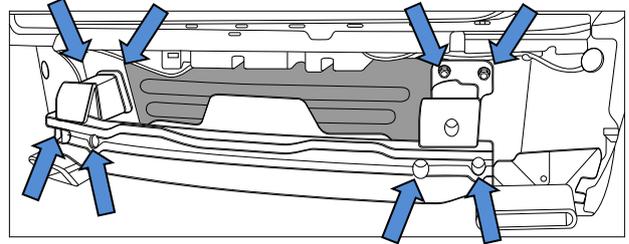
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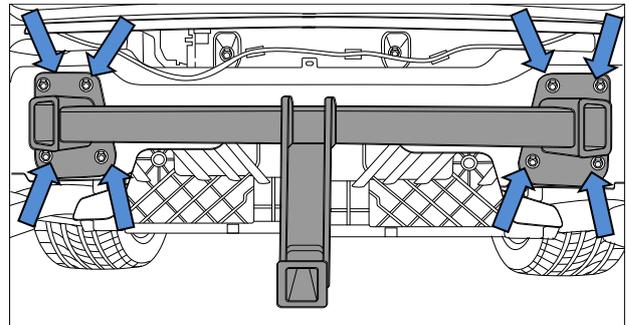
8. Remove and discard the 8 x bolts securing the impact bar.

Remove and discard the impact bar.



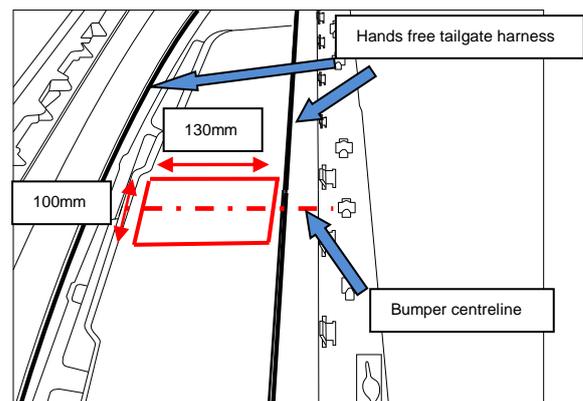
9. Secure towbar to vehicle using 8 x M12 x 1.5 x 45 bolts G10.9, complete with 1 washer per bolt.

Tighten all fasteners to a torque of 125Nm.



10. Identify centre of bumper and using the hands free tailgate harness as a bottom reference, create bumper cut 100mm wide and 130mm long as specified.

CAUTION: Ensure that the hands free tailgate harnesses are not damaged during the bumper cut.



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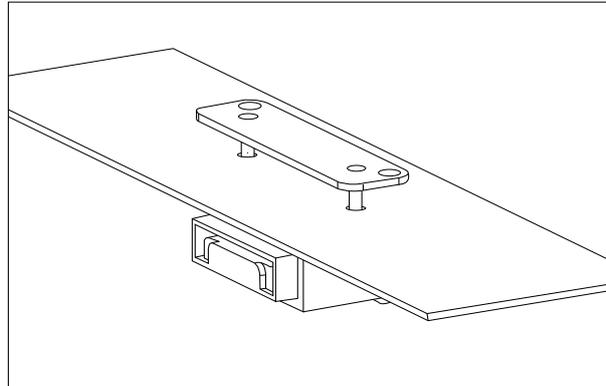


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11. At an appropriate position on the bumper, mark out and drill 2x \varnothing 5mm holes 69mm apart on bumper skin to support plug bracket. Feed bracket threads through drilled holes prior to reinstalling bumper.
12. Manipulate the bumper to accept the towbar and follow steps 1 to 7 in reverse order to reinstall the bumper.



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Wiring Loom Installation Instructions

AUDI Q7 4M Series

Part No: 101471-WL
ECU Required: 04836

Tail Harness Length Required: 1800mm

Wiring Loom Installation Time: Approx. 40 minutes

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.

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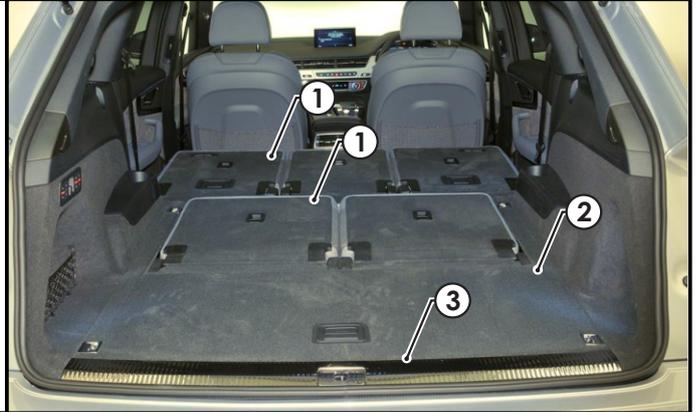


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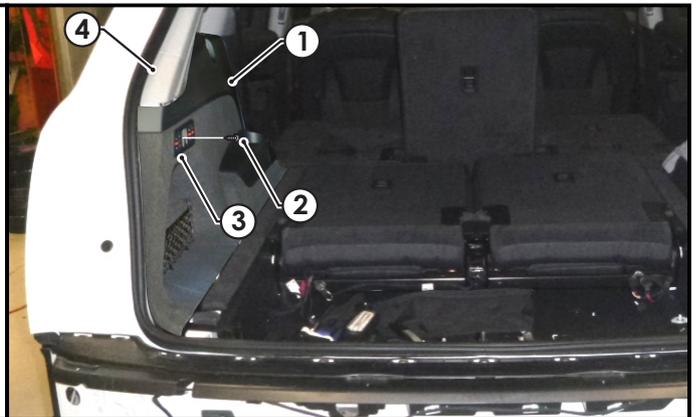
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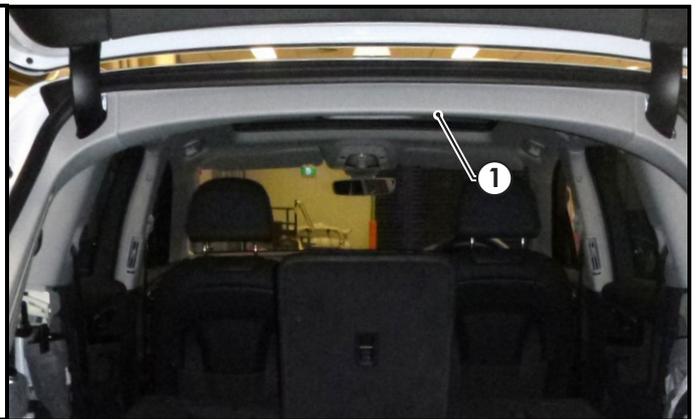
1. Fold down the rear and third row seats (1).
2. Remove the floor cover (2).
3. Remove the luggage compartment rear centre trim (3).
4. Remove the tool tray cover and the LHS tool tray (not indicated).



5. On the luggage compartment LHS trim (1) remove the torx fastener (2) from the switch panel (3), carefully dislodge the trim and disconnect all switch connectors from behind the trim switch panel (3).
6. Remove the luggage compartment LHS trim (1).
7. Dislodge the upper 'D' pillar trim (4).



8. Remove the luggage compartment rear centre upper trim (1).



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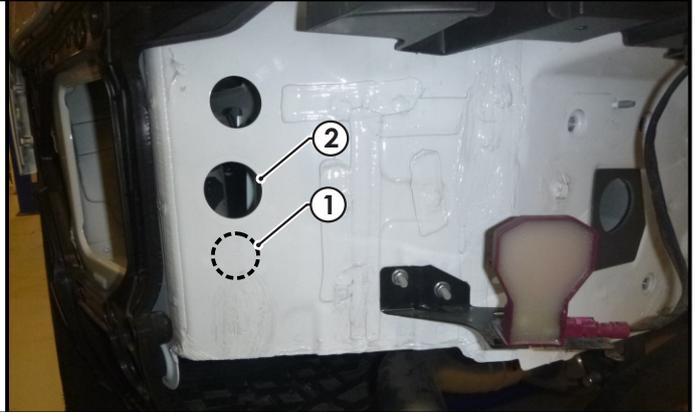
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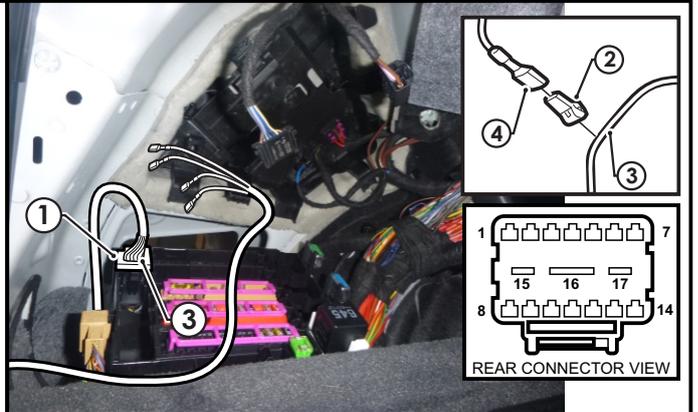
9. At the LHS rear quarter exterior, drill out a Ø30mm hole (1) underneath the existing larger grommet hole (2). **Ensure the interior area being drilled into is clear of any obstructions before drilling. After drilling, file down any rough edges and apply rust inhibitor (not supplied).**



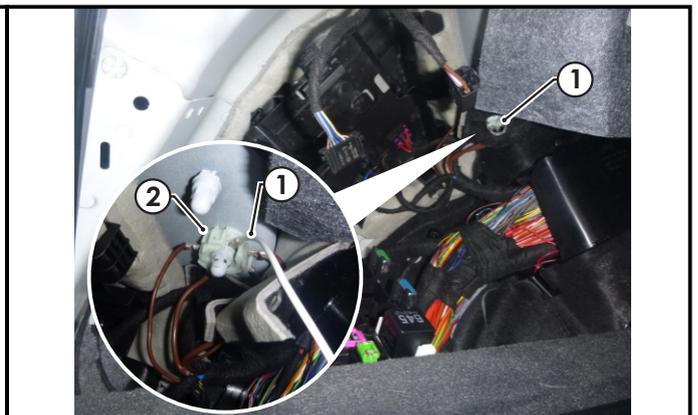
10. Disconnect the indicated connector (1) from the LHS rear quarter fuse panel.

11. Following the table below, connect the ezy-taps (2) to the corresponding vehicle connector wires (3), then connect the shorter branch trailer patch (P/No: 101471-WL) terminals (4) to the ezy-taps (2).

Function	Harness Colour	Vehicle Colour	Pin
L.IND	YELLOW	GREY / BLUE	9
TAIL / BRAKES	RED	BLACK / GREY	8
REVERSE	BLACK/WHITE	BLACK / BLUE	6
R. IND	GREEN	GREY / BLUE	13



12. Secure the trailer patch ground ring terminal (1) to the vehicle grounding location (2) using the existing vehicle fastener.



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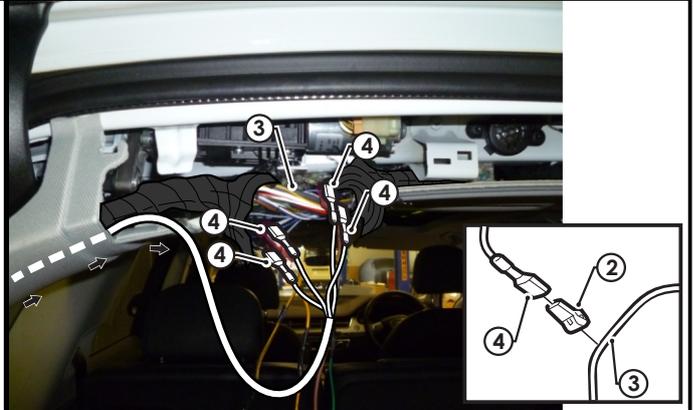
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13. Route the trailer patch longer branch (1) with terminals up to the roof lining at the rear of the vehicle.
14. Carefully cut open the vehicle harness to expose the harness wires (take caution as the sleeve will fray).
15. Following the table below, connect the ezy-taps (2) to the corresponding vehicle connector wires (3), then connect the trailer patch (P/No: 101471-WL) terminals (4) to the ezy-taps (2).

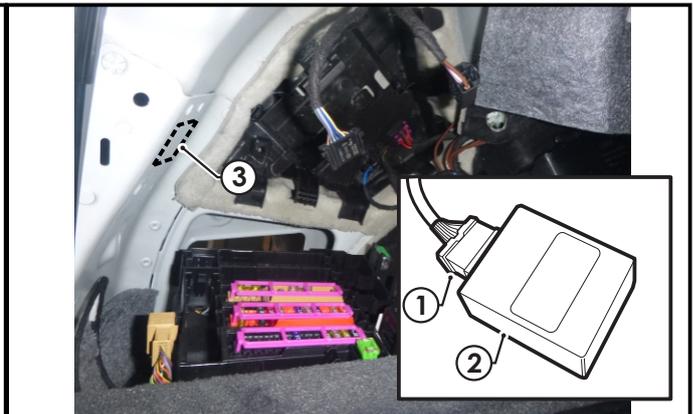
Function	Harness Colour	Vehicle Colour
L.IND	YELLOW	WHITE / GREY
BRAKES	RED	BLUE / BLACK
TAIL	BROWN / BLACK	GREY
R. IND	GREEN	GREY / BLACK



16. Tape up the vehicle harness suitably, ensuring the harnesses inside are not tight and retain enough slack to have free movement when the rear door opens and closes.



17. Connect the trailer patch connector (1) to the ECU (2). Remove the backing from the back of the ECU and mount the ECU (2) onto the sheet metal area (3). Ensure ECU is mounted with the connector pointing downwards.



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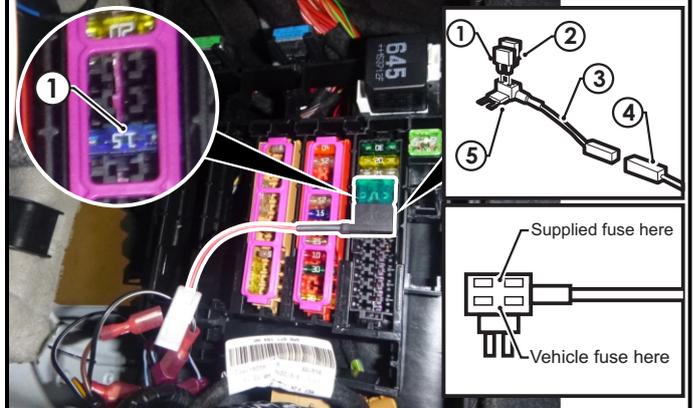
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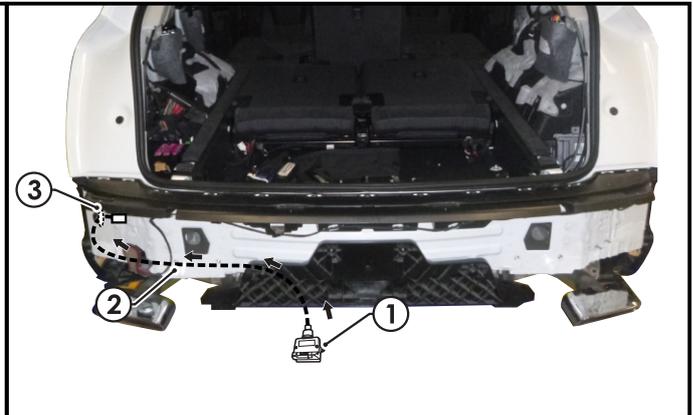
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18. Remove the indicated vehicle 15A fuse (1). Insert the vehicle fuse 15A fuse (1) and the supplied 20A fuse (2) to the add-a-fuse harness (3). Connect the trailer patch 1-way connector (4) to the add-a-fuse harness (3). Insert the add-a-fuse harness (5) to the previously removed fuse location.

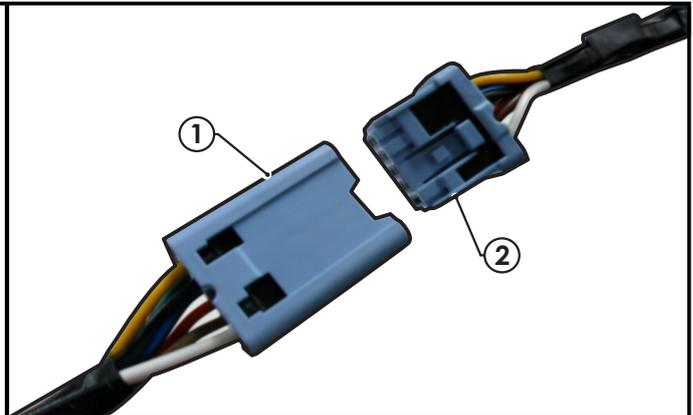
Ensure the add-a-fuse harness is orientated as shown.



19. At the rear exterior of the vehicle, mount the tail harness socket (1) to the towbar mounting bracket using M4 fasteners (not supplied).
20. Route the tail harness (tail length: 1800mm) (2) across the LHS and up into the drilled out hole (3). Adjust the trailer patch harness grommet so that it is seated correctly and cable tie (not supplied) in place.



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



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22. The RPA function can be disabled via a switch (1) on the dash.
23. Test the trailer patch function using a light board or multi-meter.
24. Secure all harnesses using cable ties (not supplied).
25. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
26. Place the fitting instructions in the glove box after fitment.



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FITTING INSTRUCTIONS

Smart Pin (55070BL)

• These fitting instructions are supplied to ensure understanding of how the SMART PIN should be fitted and used correctly.

• Once installed, we recommend **ALL** instructions are kept and placed in the vehicle glove box.

NOTE: Routine maintenance and inspection of the towbar & SMART PIN is required. Regularly inspect for wear and check the tightness of the SMART PIN NUT. Follow instructions below to retighten the nut when necessary.

***Do not tow with your vehicle if the R CLIP or the SMART PIN NUT is loose or missing. Replacement parts are available from your Hayman Reese Distributor.**

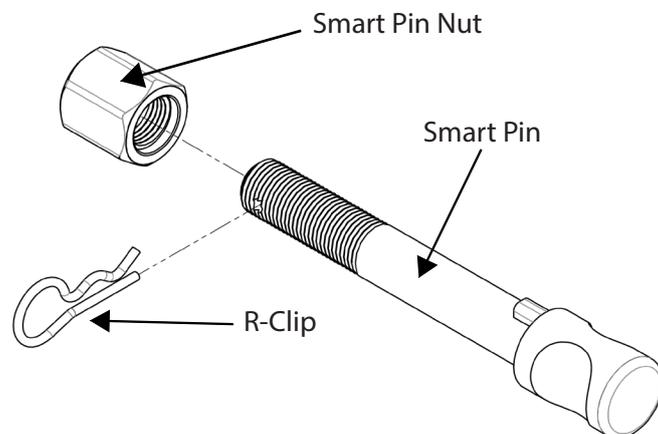
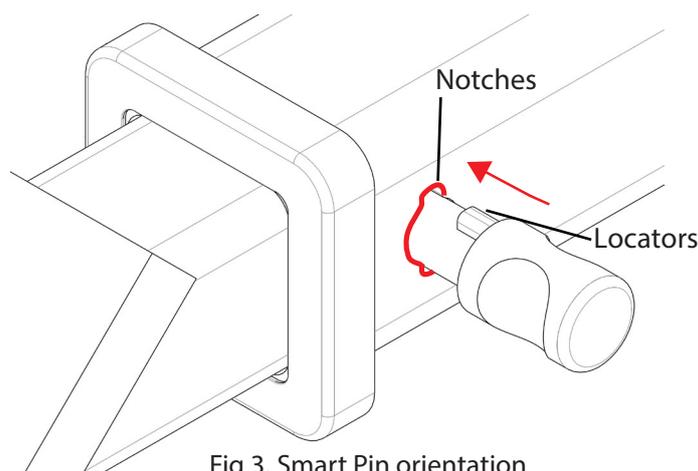
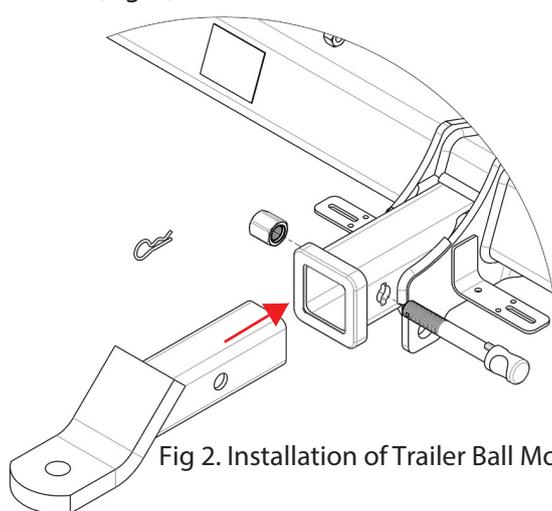


Fig 1. Smart Pin assembly

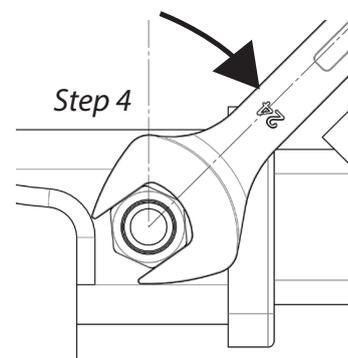
STEP 1 Insert Trailer Ball Mount (TBM) into towbar HITCHBOX, aligning hole in TBM SHANK with hole in HITCHBOX (Fig. 2).



STEP 2 Insert SMART PIN through hole in HITCHBOX and hole in TBM SHANK; ensure the LOCATORS are inserted into the NOTCHES in the HITCHBOX (Fig. 3).

STEP 3 Screw SMART PIN NUT onto SMART PIN; tighten SMART PIN NUT until finger tight, ensuring TBM is restrained from 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 on the SMART PIN (Fig. 1).

