

HAYMAN REESE
PART No: 03166RW
FIAT 500X 334 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

FIAT 500X 334 SERIES

Part Number 03166RW

Max Towing Braked 1200 kg

Max Towing Unbraked 600 kg

Max Static Ball Load 120 kg

Hayman Reese (Cequent)
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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.

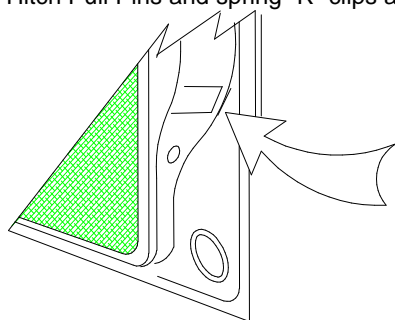
Tow bar Maintenance and Care.

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

RECOMMENDED ASSEMBLY TORQUE LISTING

Diameter Grade 8.8 Bolt

M6	9.5 Nm
M8	21.7 Nm
M10	43.4 Nm
M12	77.3 Nm
M14	146 Nm
M16	189.8 Nm

FOR TOWING PURPOSES ONLY

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

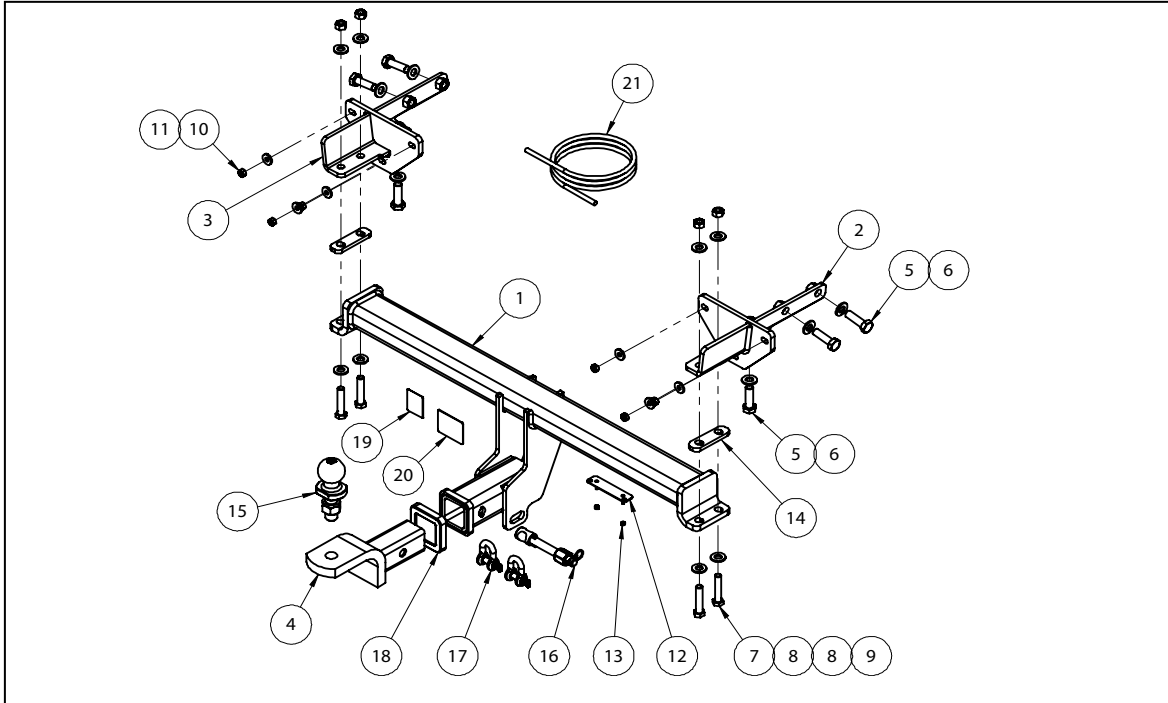
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ITEM NO.	DESCRIPTION	QTY.
1	WELDED TOWBAR ASSEMBLY	1
2	RHS SIDEARM BRACKET	1
3	LHS SIDEARM BRACKET	1
4	TBM ASSY	1
5	SET SCREW M14x45x2P G10.9	6
6	FT WASHER M14x28x3 Z/P	6
7	BOLT HEX M12x60x1.25P	4
8	WASHER FLAT 1/2"x1 1/8"x1/8"	8
9	HEX NUT M12x1.25 PC8	4
10	NUT M8-1.25	6
11	FLAT WASHER M8x22x3.3mm	6
12	PLUG BRACKET	1
13	NUT NYLOC M4-0.7 Z/P	2
14	SPACER	2
15	HR TOWBALL	1
16	ANTI-RATTLE PULL PIN ASSY GOLD	1
17	10mm "D" SHACKLE	2
18	HITCH BOX COLLAR COVER	1
19	H.R STICKER	1
20	ACRYLIC COMPLIANCE PLATE	1
21	WIRING LOOM	1

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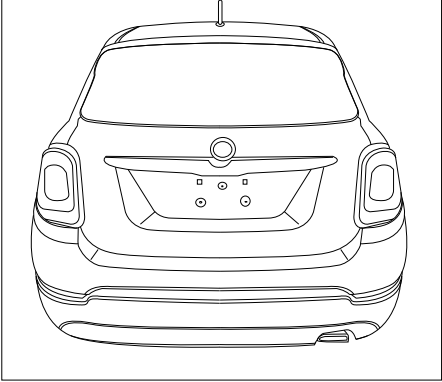
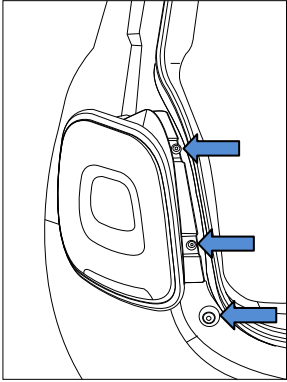
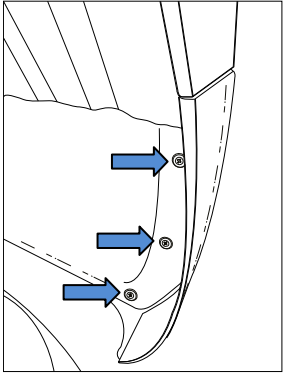
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<p>1. Release the rear tail gate to expose boot cabin</p>	
<p>2. Remove 3 x Torx Screws in tailgate cavity. Carefully detach and remove tail light assembly and disconnect factory wiring loom.</p> <p>Repeat for opposite side of the vehicle.</p>	
<p>3. On the inside of the rear wheel arch, remove 3 x Torx Screws.</p> <p>Repeat for opposite side of the vehicle</p>	

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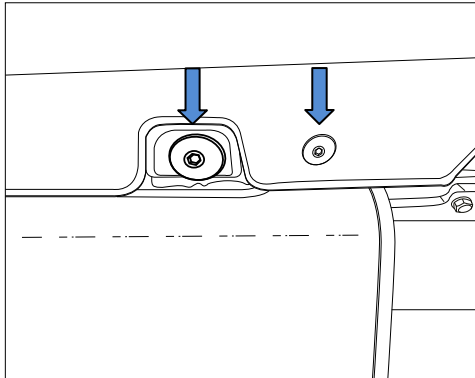
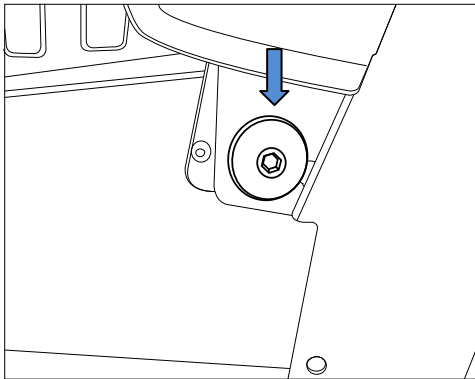
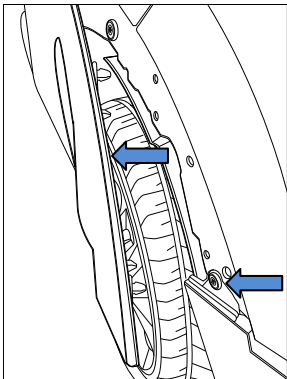
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<p>4. Remove 2 x Torx Screws from underside of bumper, at the rear end of the vehicle.</p> <p>Repeat for opposite side of the vehicle.</p>	
<p>5. Remove the 1 x Torx Screw from the underside of the bumper, at the rear corner of the vehicle.</p> <p>Repeat for opposite side of the vehicle.</p>	
<p>6. Carefully partially unclip a section of rear wheel arch trim covering the rear bumper.</p> <p>7. Remove the 1x Screw from under rear wheel arch trim, securing bumper to vehicle chassis.</p> <p>Repeat steps 6 and 7 for opposite side of the vehicle.</p>	

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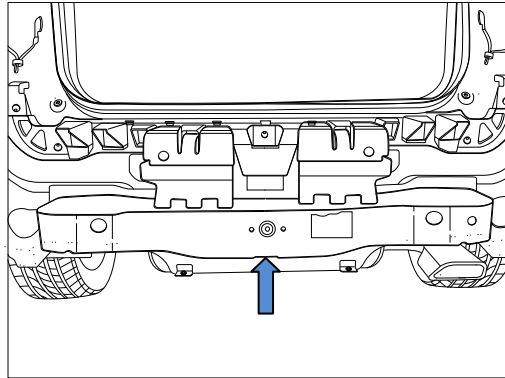


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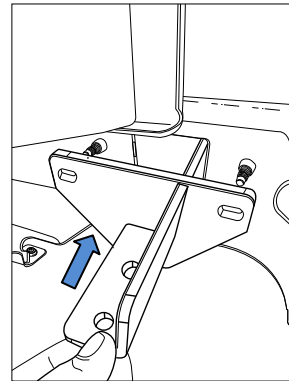
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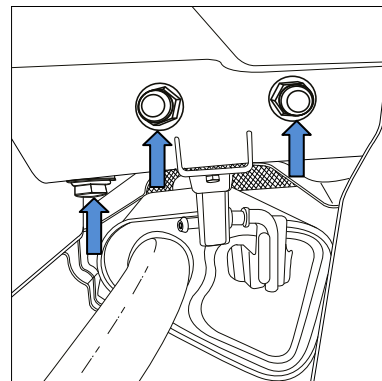
8. Carefully detach rear bumper by peeling away at edges closest to the rear quarter panels.
 9. Remove and discard foam infill panels. Remove 6 x M8 Hex Nuts securing rear impact beam to rear panel of vehicle.
- Remove and discard rear impact beam.



10. Insert sidearm bracket into chassis rail.
- Repeat for opposite side of vehicle.



11. Loosely secure sidearm bracket to chassis rail by using 3 x M14 Set Screw, complete with 1 x M14 Washer per screw.
- Repeat for opposite side of the vehicle.



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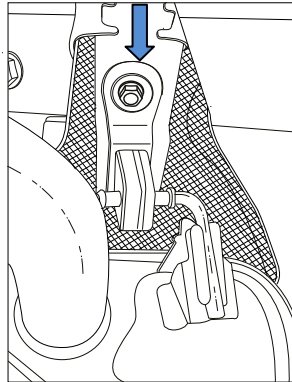
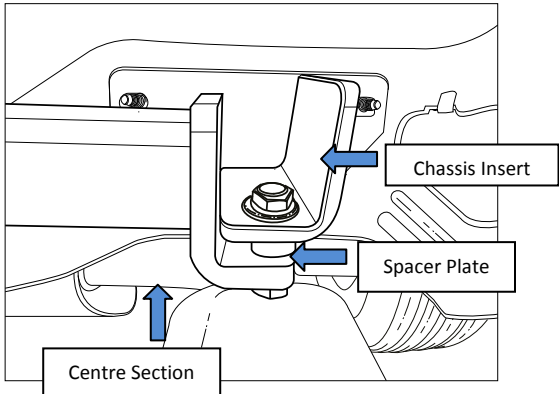
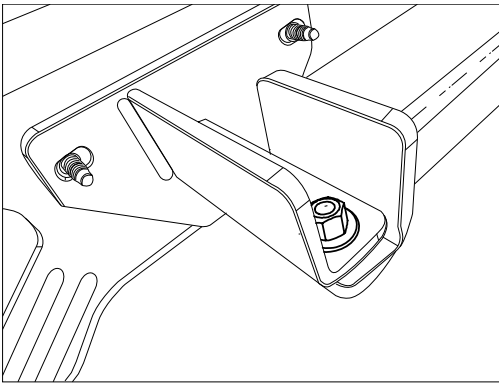
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<p>12. Lower exhaust by removing 1 x Bolt securing exhaust hanger to vehicle.</p>									
<p>13. Fit centre section of towbar to vehicle. Use spacer plates provided and bolt towbar underneath chassis inserts. Refer to image for clarification.</p> <p>Loosely secure using 4 x M12 Set Screws, with accompanying washers and nuts.</p>									
<p>14. Loosely secure sidearm bracket to studs in rear panel of vehicle using 3 x M8 Nuts, complete with 1 x Flat Washer per nut.</p> <p>Repeat for opposite side of vehicle.</p> <p>Torque All Fasteners to Specifications Listed Below:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Fastener</th> <th style="text-align: left;">Torque (Nm)</th> </tr> </thead> <tbody> <tr> <td>M8 Nut</td> <td>25Nm</td> </tr> <tr> <td>M12 x 1.25P Bolt</td> <td>50Nm</td> </tr> <tr> <td>M14 x 2.0P Bolt</td> <td>140Nm</td> </tr> </tbody> </table>	Fastener	Torque (Nm)	M8 Nut	25Nm	M12 x 1.25P Bolt	50Nm	M14 x 2.0P Bolt	140Nm	
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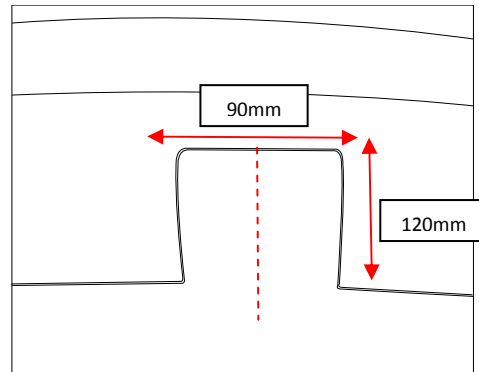


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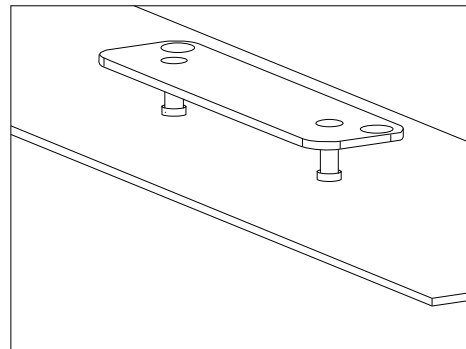
15. Identify centreline of bumper and create cut 90mm wide x 120mm tall, as measured on the outside of the bumper.



16. **If installing wiring onto the vehicle with a compatible plug to the provided plug bracket:**

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

17. Reinstall bumper following steps 1 to 8 and 12 in reverse order.



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Wiring Loom Installation Instructions

FIAT 500X 334 SERIES

Part No: 101479-WL
ECU Required: 04836

Tail Harness Length Required: 1800mm

Wiring Loom Installation Time: Approx. 60 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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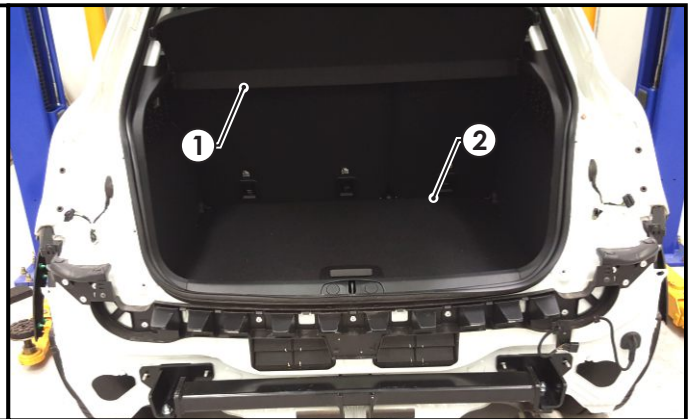
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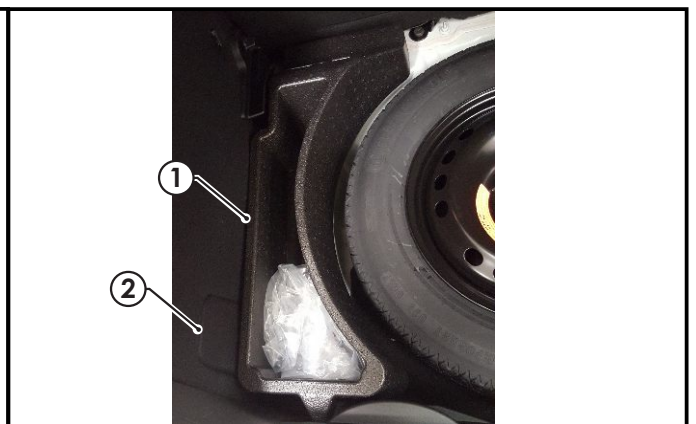
1. Remove the required fasteners and remove the LHS and RHS tail light assemblies (1).



2. In the luggage compartment, remove the rear sun shade (1) and the floor mat (2).



3. Remove the LHS tool tray (1) and the access panel (2).



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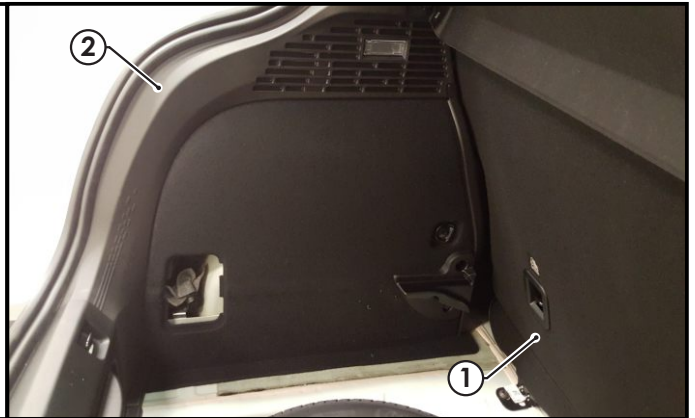
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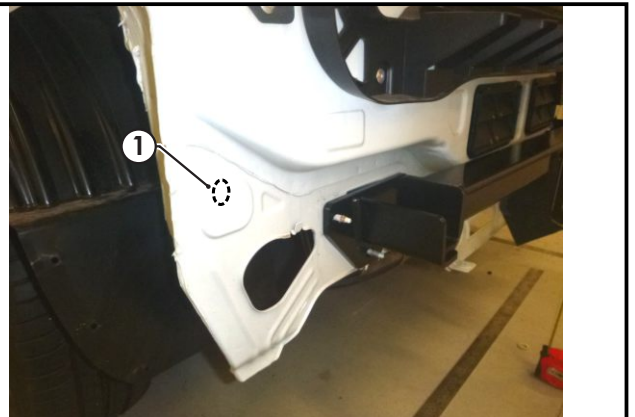
4. Remove the luggage compartment rear trim (1).



5. Fold down the LHS rear seat (1).
6. Remove the required fasteners from the LHS luggage compartment trim (2). Enough to dislodge the trim and gain access to the tail light connectors.



7. At the LHS lower rear tailgate, drill a Ø30mm hole into the vehicle sheet metal as shown (1).
Ensure there are no obstructions on the interior side before drilling.
File down any rough or sharp edges and apply rust inhibitor after drilling.



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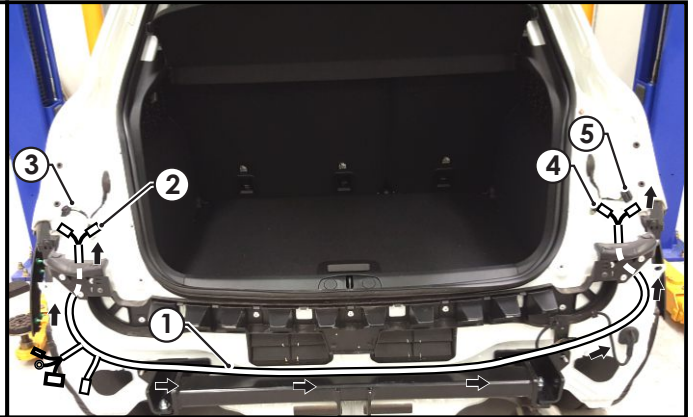


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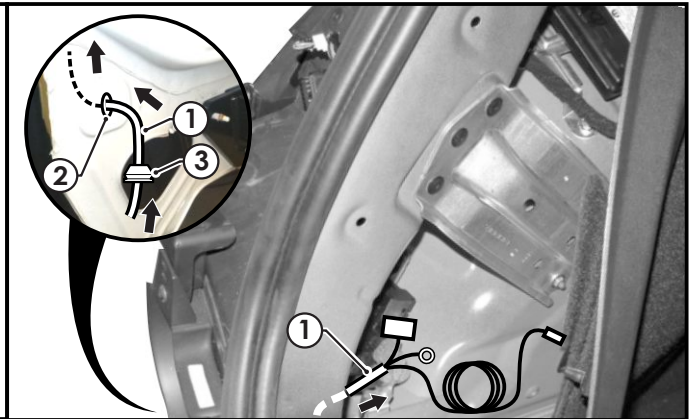
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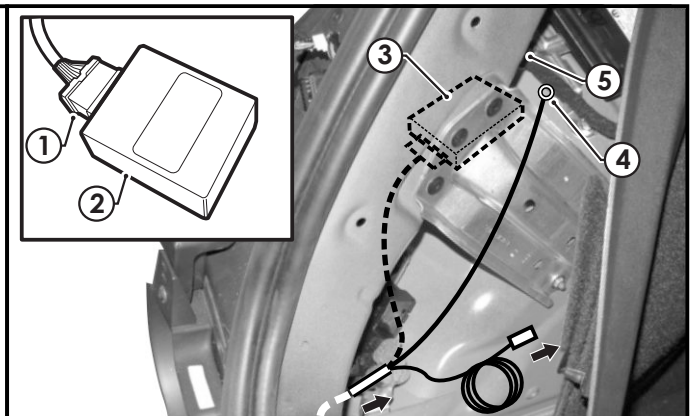
8. Route the trailer patch (1) (P/No: 101479-WL) connectors to the LHS and RHS of the vehicle.
9. Patch the LHS connector (2) to the vehicle mating tail light connector (3).
10. Patch the RHS connector (4) to the vehicle mating tail light connector (5).



11. Route the trailer patch branch (1) containing the ECU, ring terminal and 1-way connector into the vehicle through the drilled out hole (2) ensuring the trailer patch grommet (3) is seated correctly into position.



12. 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 vehicle's LHS inner quarter (3). **Ensure the mounting area is cleaned prior to mounting and that the ECU is mounted with the connector pointing downwards.**
13. Secure the ground ring terminal (4) to the vehicle grounding point (5).
14. Route the 1-way connector branch towards the LHS rear passenger seat.



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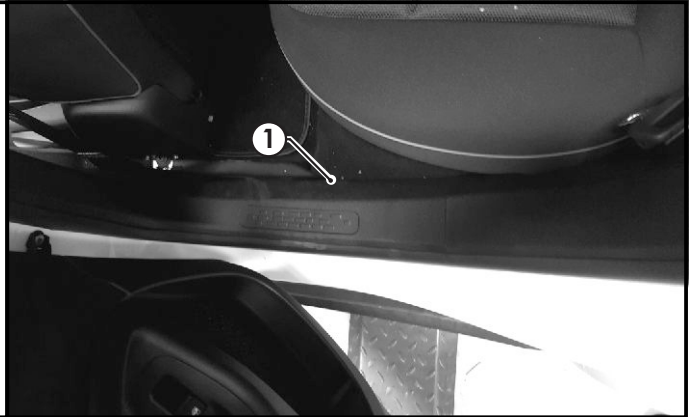


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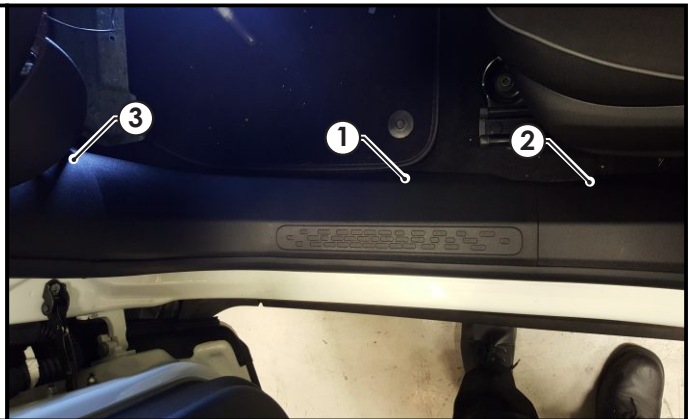
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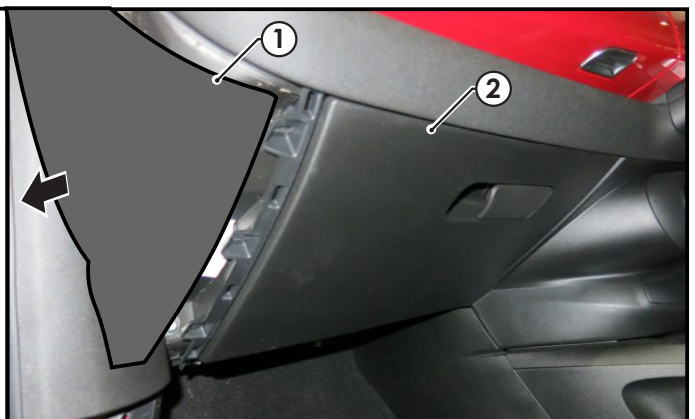
- 15 In the LHS rear passenger area, remove the door scuff trim (1).



16. Remove the front passenger scuff trim (1), dislodge the 'B' pillar trim lower section (2) and then remove the front kick panel trim (3).



17. Remove the glove compartment side trim (1) and then open the glove box (2).



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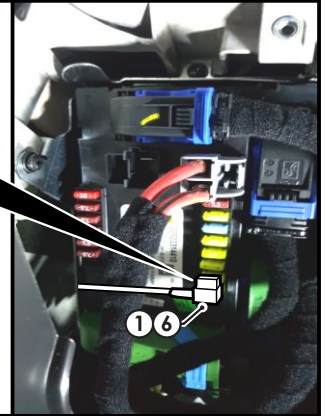
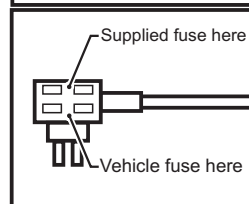
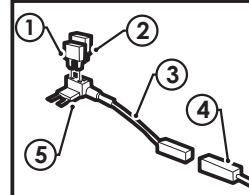
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18. Route the trailer patch 1-way connector branch (1) along the left hand side of the vehicle interior, following the vehicle harness to the front glove box area.

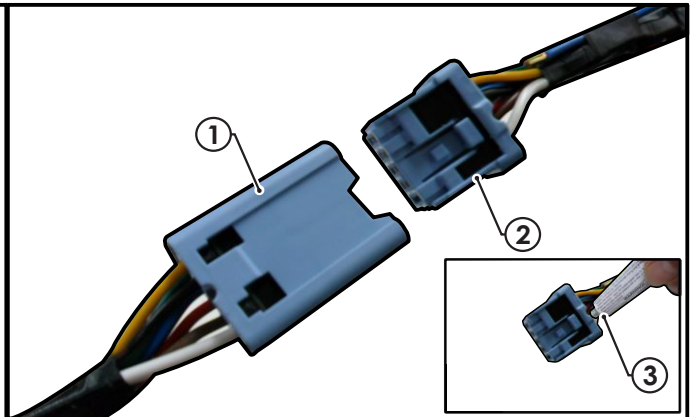


19. Remove the indicated vehicle 20A fuse (1). Insert the vehicle fuse 20A fuse (1) and the supplied 20A fuse (2) to the add-a-fuse harness (3). Connect the trailer patch 1-way connector (4) to the add-a-fuse harness (3). Insert the add-a-fuse harness (5) to the previously removed fuse location (6).

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



20. Connect the tail harness 8-way connector (1) to the trailer patch mating 8-way connector (2).
21. Waterproof the connectors by applying electrical grease or silicone (3) to the back of each connector.



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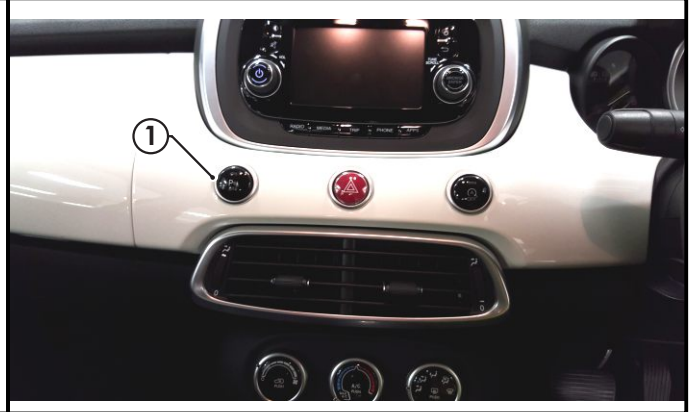


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22. Refit the tail lights.
23. Test the trailer patch function using a light board or multi-meter.
24. Secure all harnesses using cable ties (not supplied).
25. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.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



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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.**

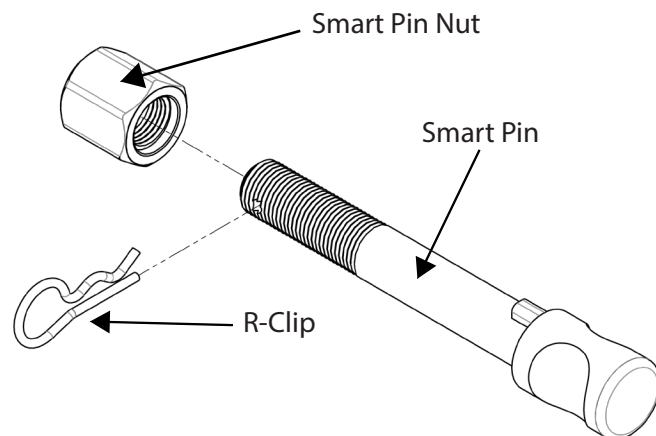
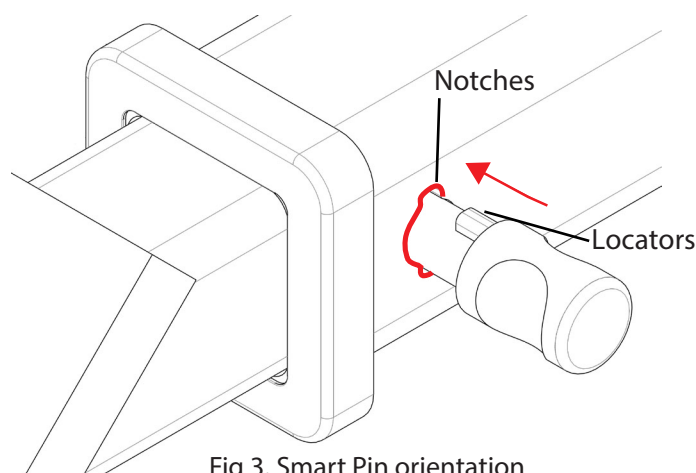
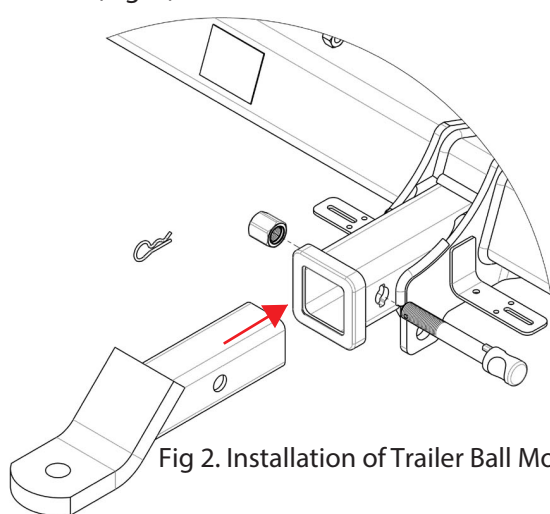


Fig 1. Smart Pin assembly

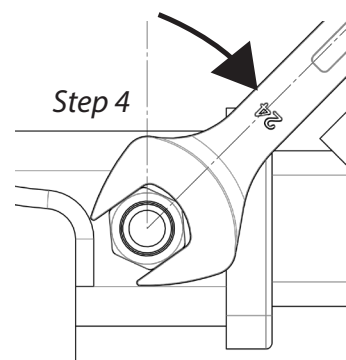
STEP 1 Insert Trailer Ball Mount (TBM) into towbar HITCHBOX, aligning hole in TBM SHANK with hole in HITCHBOX (Fig. 2).



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).

