

HAYMAN REESE
PART No: **03229RW**
TOYOTA CAMRY ASV70R 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 **165** Mins

Towbar Installation Instructions

Towbar capacity

TOYOTA CAMRY ASV70R CL4

Part Number **03229RW**

Max Towing Braked **1200** kg
Max Towing Unbraked **500** kg
Max Static Ball Load **120** kg

ECU: 04831

Power Harness: 04825

Tail Length: 1200mm

RPA Disable: Via button on steering wheel

Electric brake input location: **BLUE** wire near ECU

Hayman Reese (Cequent)
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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.

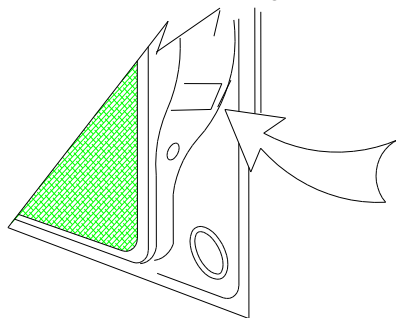
Tow bar Maintenance and Care.

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

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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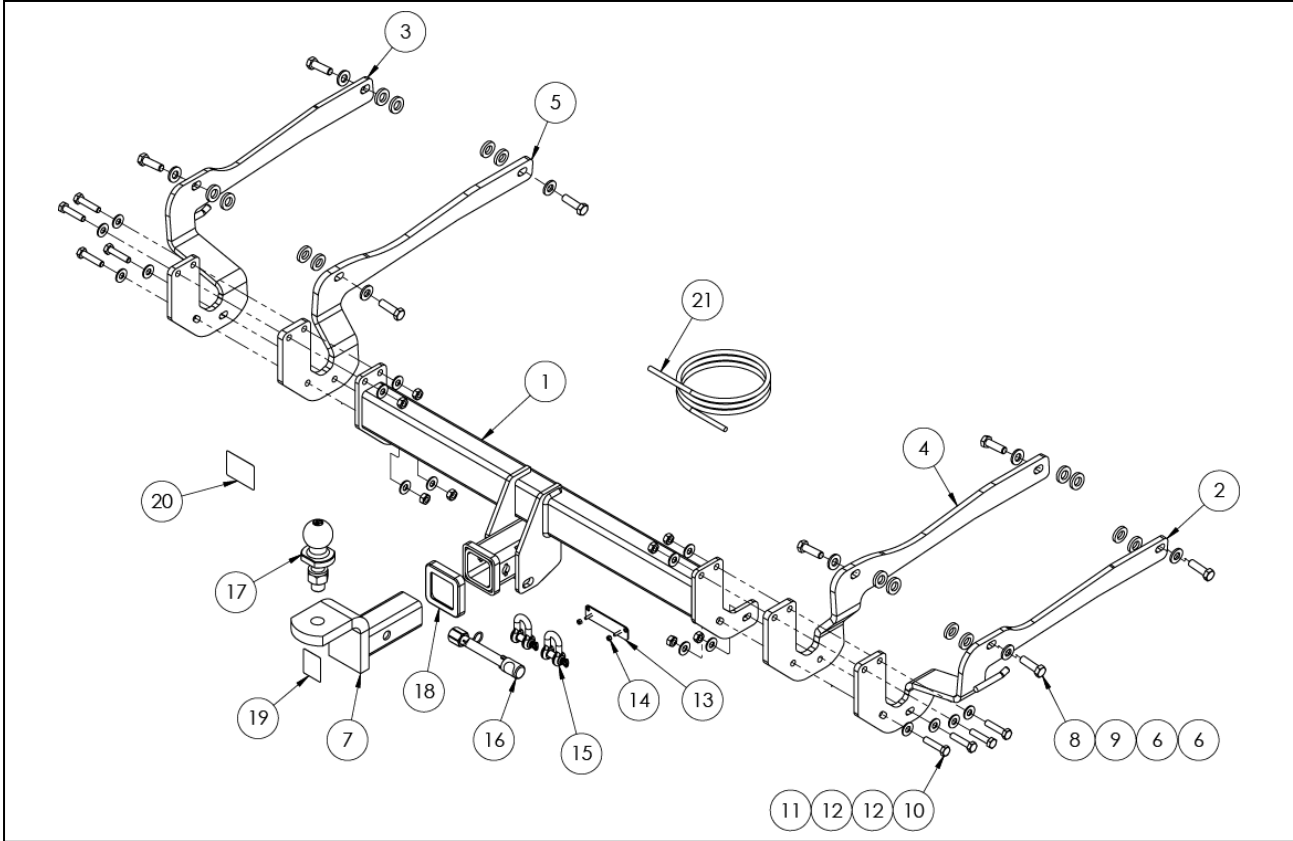
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ITEM	DESCRIPTION	QTY
1	WELDED ASSY	1
2	SIDE ARM ASSEMBLY RHS	1
3	SIDE ARM ASSEMBLY LHS	1
4	SIDEARM INBOARD - RHS	1
5	SIDE ARM INBOARD - LHS	1
6	SIDE ARM SPACER	16
7	TRAILER BALL MOUNT	1
8	SET SCREW M12-1.25 X 40 GR 8.8 Z	8
9	WASHER PLAIN 1/2X1-1/8X16G	8
10	M10x1.25x45 HEX BOLT PC8.8	8
11	NUT HEX HD M10 X 1.25P G8	8

ITEM	DESCRIPTION	QTY
12	WASHER FLAT M10 X 23 X 2 Z/P	16
13	VE PLUG BRACKET	1
14	NUT NYLON LOCK HEX HD M4X0.7P	2
15	10mm "D" SHACKLE	2
16	ANTI-RATTLE PULL PIN ASSY GOLD	1
17	HR TOWBALL	1
18	HITCH BOX COLLAR COVER	1
19	H.R STICKER	1
20	ACRYLIC COMPLIANCE LABEL	1
21	WIRING LOOM	1

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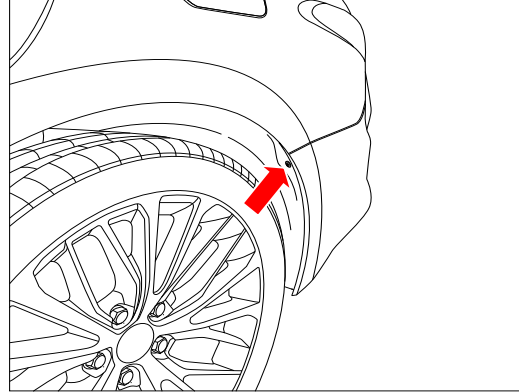
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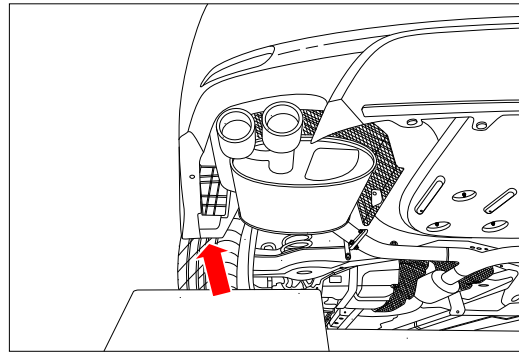
1. Remove 1 x scrivet located inside rear wheel arch.

Repeat for opposite side.

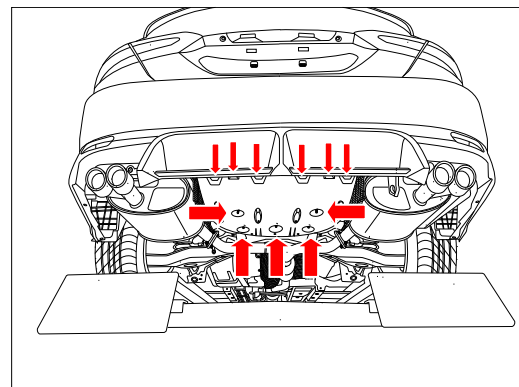


2. Remove 1 x scrivet from underside of vehicle near tire well.

Repeat for opposite side.



3. Unclip cover from bumper on underside of vehicle via 6 x scrivets and 5 x plastic hex head nuts. Remove cover and set aside with hardware.



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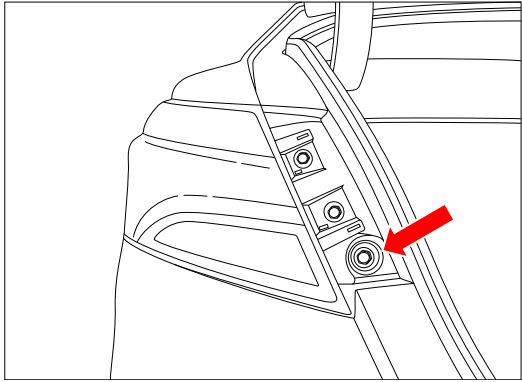
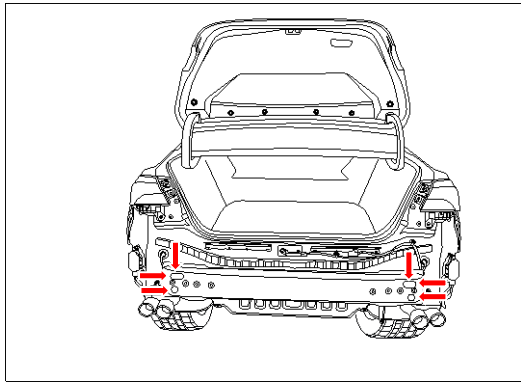
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<p>4. Dislodge and remove plastic trim located next to tail-light. Remove 1 x hex head screw from behind trim securing bumper to rear panel.</p> <p>Repeat for opposite side.</p>	 A line drawing of the rear quarter of a car, showing the bumper and tail light area. A red arrow points to a hex head screw located behind the plastic trim that secures the bumper to the rear panel.
<p>5. Carefully unclip bumper from corners and remove, ensuring to disconnect any electrical plug/s that may be attached to vehicle body.</p> <p>Set bumper aside.</p>	
<p>6. Remove impact beam via 6 x hex head bolts (3 each side).</p> <p>Discard impact beam and bolts.</p>	 A line drawing of the rear view of a car, showing the bumper and the impact beam. Red arrows point to the six hex head bolts that secure the impact beam to the vehicle body.

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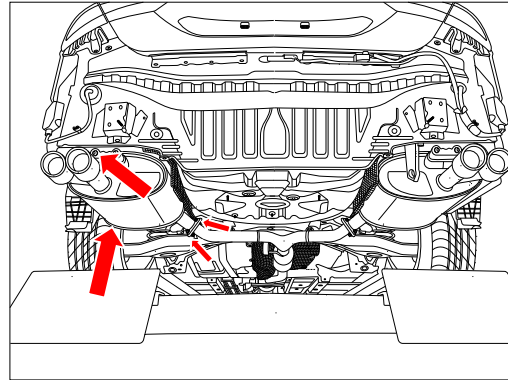
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7. Disconnect exhaust/muffler by removing 2 x exhaust hanger brackets (each with 2 x hex head bolts) and 2 x bolts holding muffler in place.

Carefully remove exhaust/muffler and set aside.

Repeat for opposite side.

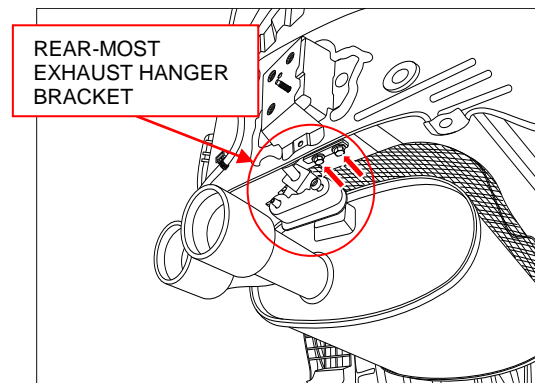


8. On the now disconnected muffler, remove rear most exhaust hanger bracket from rubber mount.

Rubber mount will stay attached to muffler and attach to towbar sidearm later.
Discard bracket.

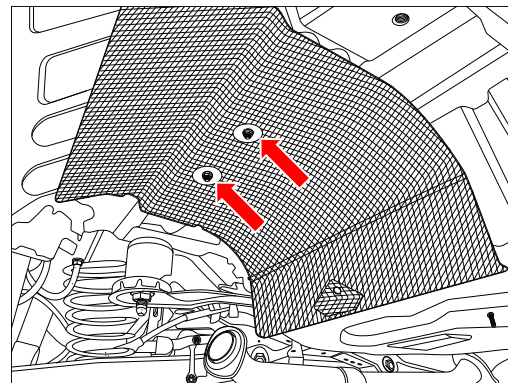
Note: If tow-hook is present, remove and discard.

Repeat for opposite side.



9. Remove heat shield covering chassis rail via 2 x hex head nuts. Set aside with hardware.

Repeat for opposite side.



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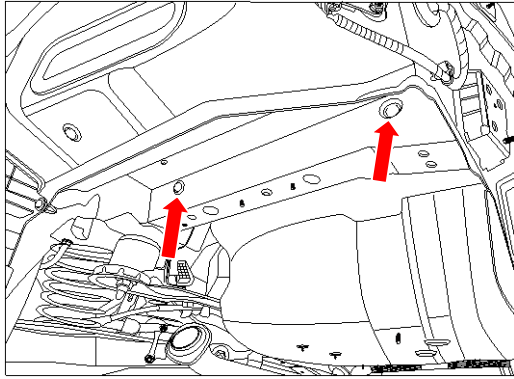
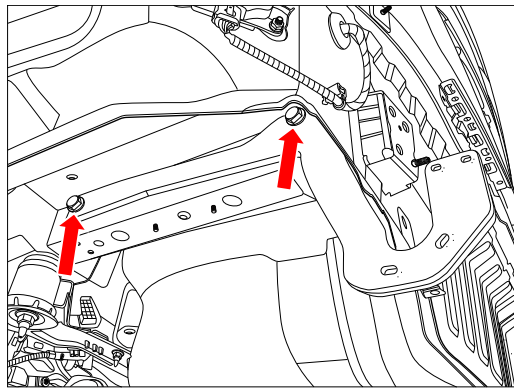
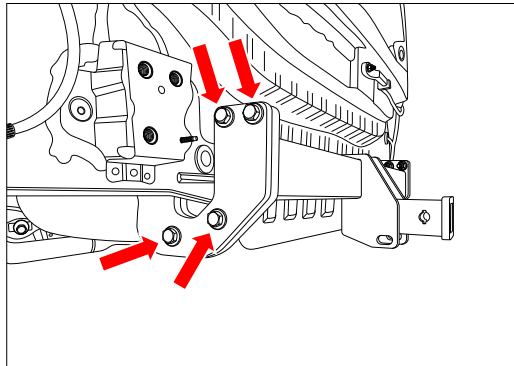
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<p>10. Remove black stickers covering towbar mount points on inboard and outboard face of chassis rail (leave stickers on bottom face of chassis rail).</p> <p>Repeat for opposite side.</p>	
<p>11. Loosely secure inboard and outboard side arms (refer to exploded diagram on page 3) to chassis rail via 2 x M12 bolts per arm complete with 1 x M12 washer per bolt.</p> <p>Use supplied spacers as required between side arms and chassis rail to ensure there are no gaps.</p> <p>Remove any sealant present on chassis rail that may interfere with side arms. Coat with an appropriate metal protector.</p> <p>Repeat for opposite side.</p>	
<p>12. Lift towbar up to side arms and loosely secure with 4 x M10 bolts complete with 2 x washers and 1 x nut per bolt.</p> <p>Repeat for opposite side.</p> <p>Tighten all fasteners to the torques listed below:</p> <p>M10 x 1.25 x G8.8: 48 N.m M12 x 1.25 x G8.8: 89 N.m</p>	

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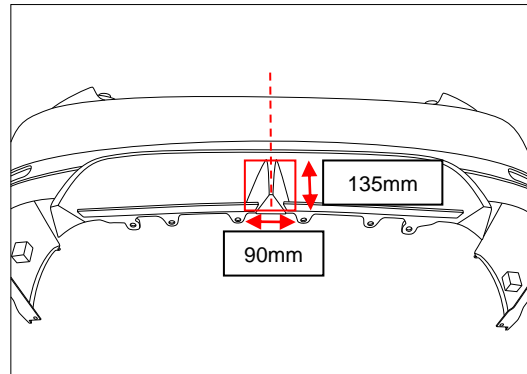
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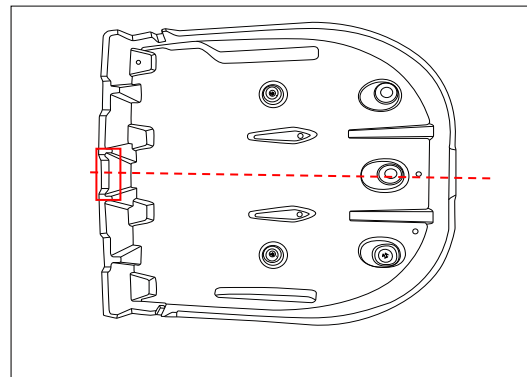
13. Identify the centreline of the bumper.
Measure, mark and cut one of the following depending on your bumper variant:

- **Bumper Cut 1:** 90mm wide x 135mm long as measured from bottom edge of bumper (shown).
- **Bumper Cut 2:** 90mm wide x 155mm long as measured from bottom edge of bumper (not shown).



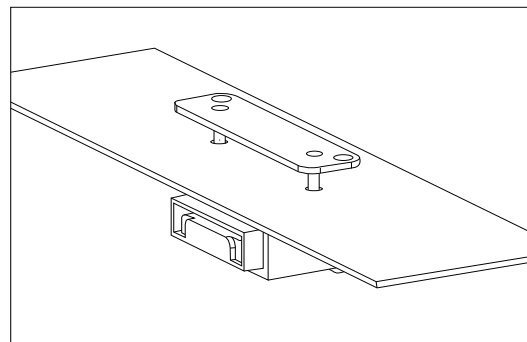
14. Undercover tray may require some minor removal of material to avoid the towbar hitch box.

Identify the centre line of the tray and cut front lip as required to clear hitch box.



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

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



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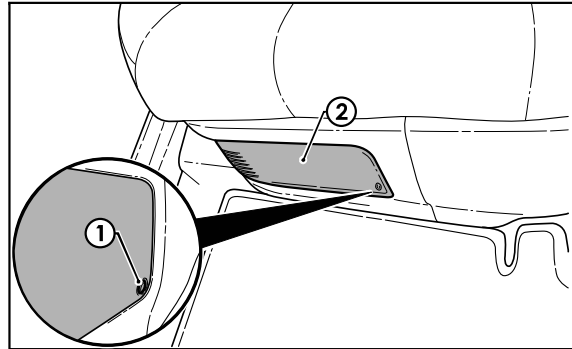
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16. Re-install exhausts, bumper and fasteners following steps 1-8 in reverse. Mount rear most exhaust rubber mount to hanger rod attached to towbar side-arm.

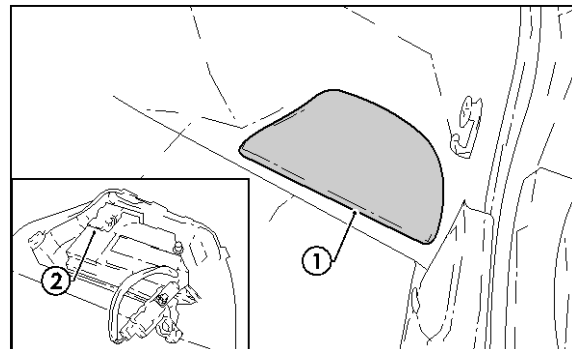
Place the instructions in the glove box after fitment.

For Hybrid models only, refer to Steps 17 & 18. For petrol models go to Step 21.

17. Under the RHS of the rear seat, remove the fastener (1) on the hybrid access panel (2).
18. Remove the hybrid access panel and then remove the orange isolator switch.



19. Remove the RHS luggage compartment trim panel (1).
20. Disconnect the negative battery terminal (2).



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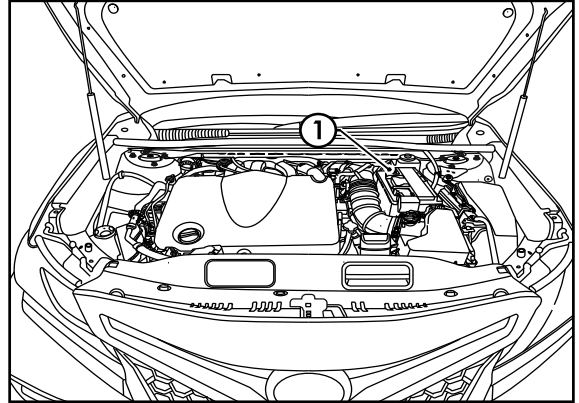
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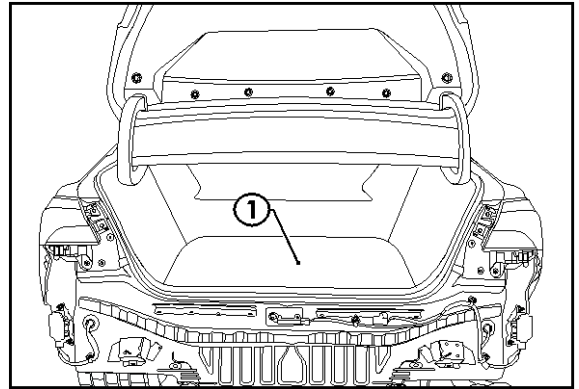
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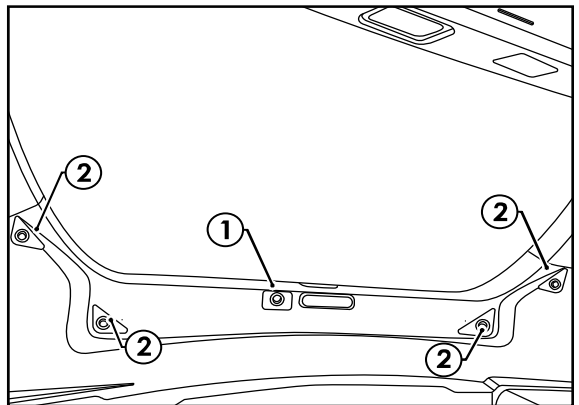
21. In the engine bay, disconnect the negative battery terminal (1).



22. Remove the luggage compartment carpet (1).
23. Remove the tool tray.



24. Remove the rear luggage compartment scuff plate (1) by removing the four clips (2) and pulling in an upwards direction



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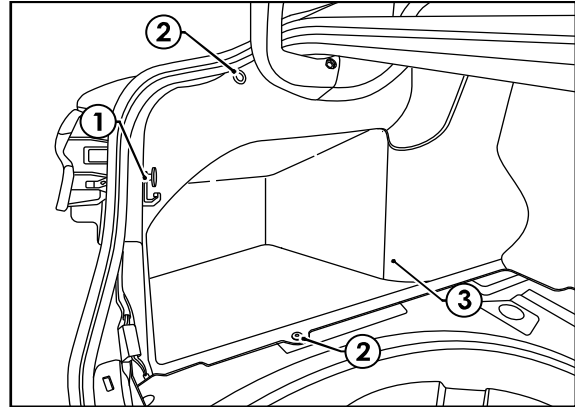


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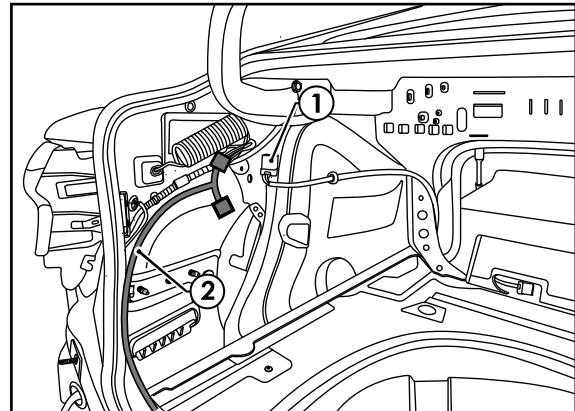
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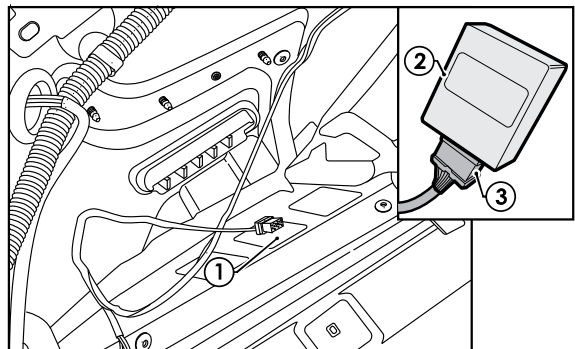
25. Remove the LHS luggage compartment hook (1) by pressing the centre button while pulling the hook.
26. Removing the two trim clips (2).
27. Remove the LHS luggage compartment trim (3).



28. Inside the LHS luggage compartment area, locate the vehicle connector (1) and patch in the Trailer Wiring Harness (2).



29. Using an alcohol wipe, clean the LHS inner sheet metal area (1) and the underside of the ECU (04836) (2).
30. Apply double sided tape to the ECU (2) and secure it to the vehicle sheet metal (1).
31. Connect the trailer patch 12-way connector (3) to the ECU (2).



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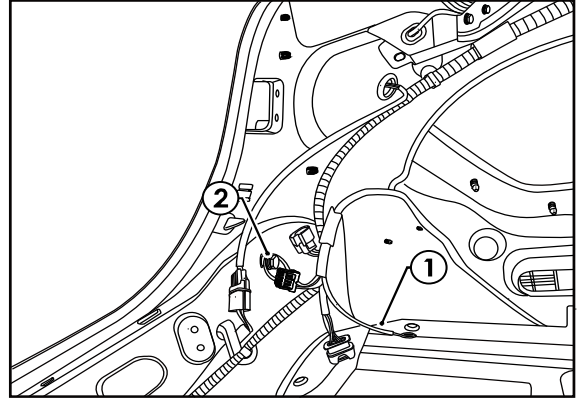


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32. Using a 10mm socket, connect the ground wire ring terminal (1) to the vehicle earthing point (2).

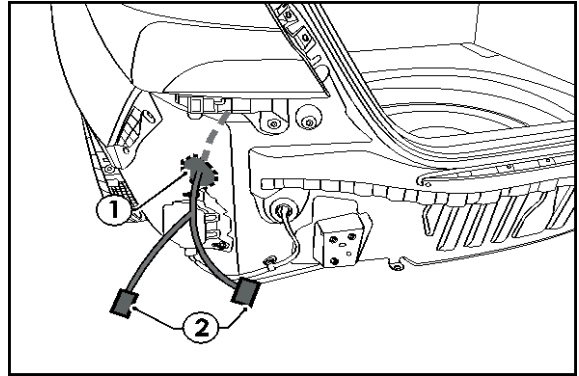


33. Using a 30mm step drill bit, drill a grommet hole (1) in a suitable location near the Blind Spot radar.

34. Feed the blue connector and power wire connector (2) through the previously drilled hole.

35. Seat the grommet in the 30mm hole.

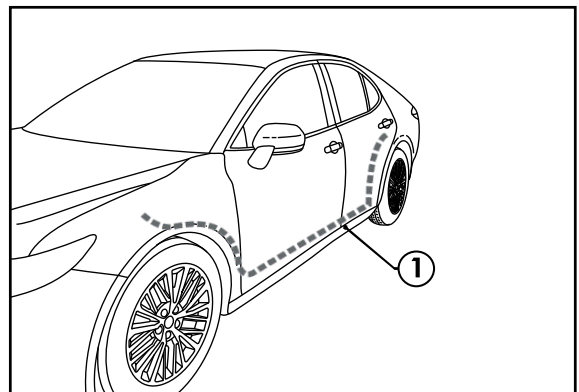
Note: Ensure the grommet is seated correctly and makes a good seal.



36. Connect the Power Harness (04825) 1-way female connector to the 1-way male connector near the blue connector.

37. Route the Power Harness (1) towards the front of the vehicle and up to the positive battery terminal. Tie up any excess lengths if required.

Note: Keep harness routing clear of all sharp edges, moving parts and places of extreme heat.



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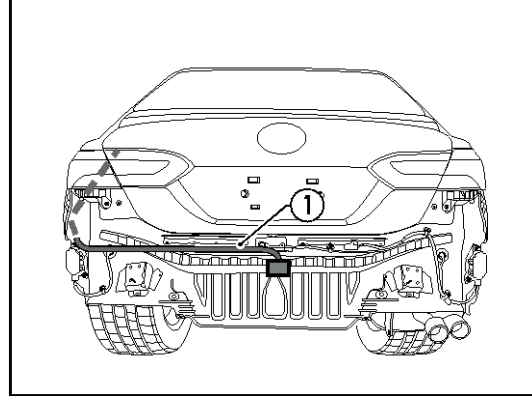
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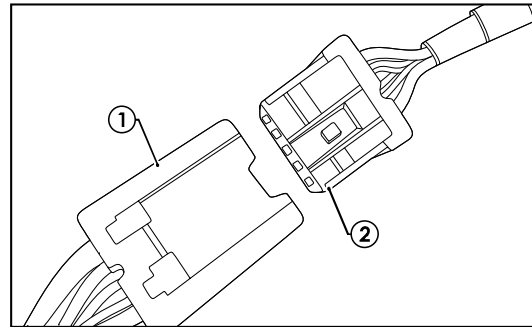
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38. With the rear bumper removed, secure Tail Harness (1) to towbar.
39. Route Tail Harness (1) up towards the blue connector.

Note: Keep harness routing clear of all sharp edges, moving parts and places of extreme heat.



40. Connect the tail harness 8-way connector (1) to the trailer patch mating 8-way connector (2).
41. Apply silicone grease to waterproof connector.
42. Connect the ring terminal on the power harness to the battery positive. Reconnect the negative battery.



43. Test the trailer patch function using a light board or multi-meter.
44. Secure all harness using cable ties (not supplied).
45. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
46. 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.**

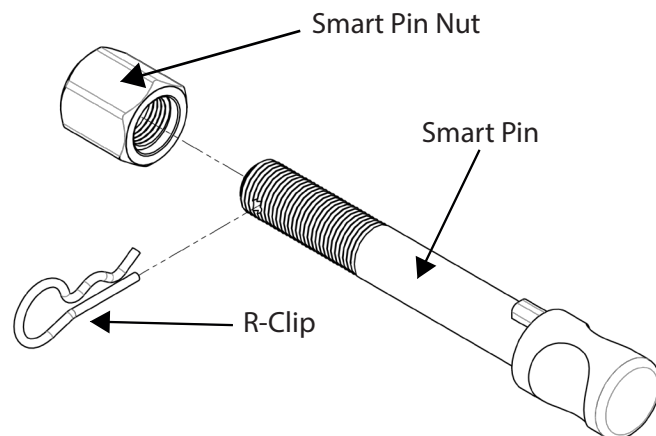
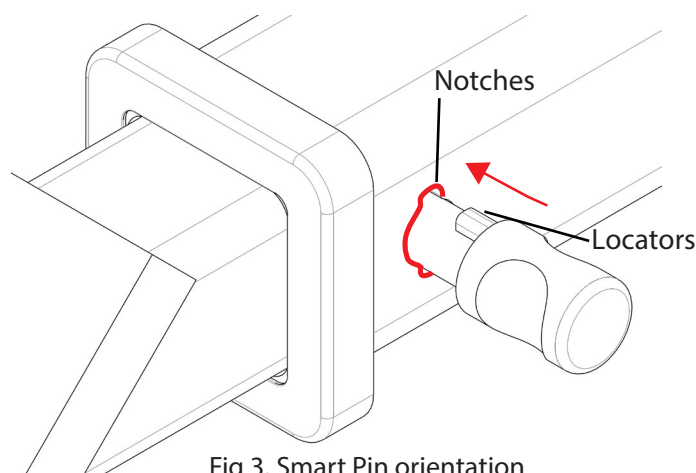
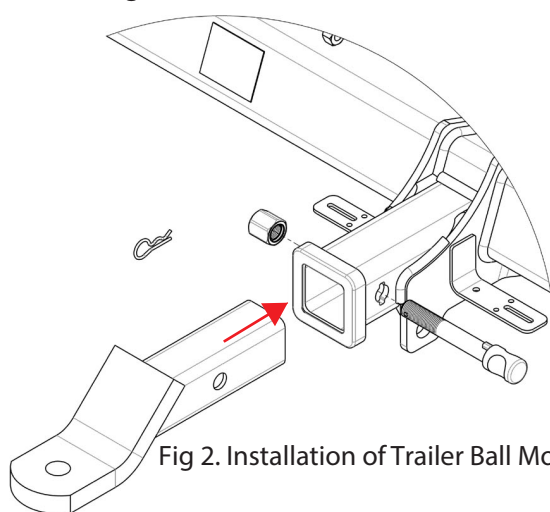


Fig 1. Smart Pin assembly

STEP 1

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



STEP 2

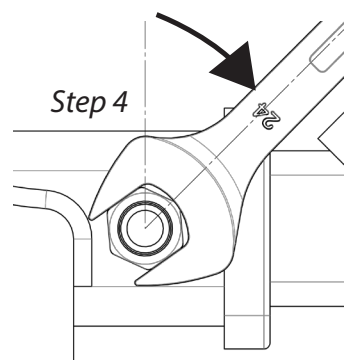
Insert SMART PIN through hole in HITCHBOX and hole in TBM SHANK; ensure the LOCATORS are inserted into the NOTCHES in the HITCHBOX (Fig. 3).

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).

