

HAYMAN REESE
PART No: 03142RW
TOYOTA CAMRY ASV50R & AVV50R & AURION GSV50R
INSTALLATION INSTRUCTIONS

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



Installation Time: Approx 60 Mins

Towbar Installation Instructions

Towbar capacity

TOYOTA CAMRY – ASV50R & AVV50R

TOYOTA AURION – GSV50R

Part Number 03142RW

Max Towing Braked 1600 kg

Max Towing Unbraked 500 kg

Max Static Ball Load 160 kg

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

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 onboard 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.

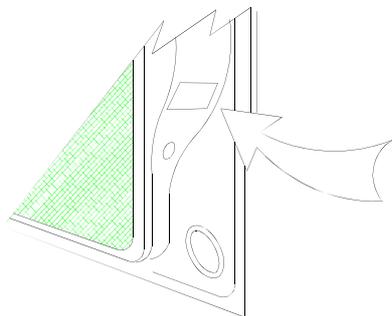
Tow bar Maintenance and Care.

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.

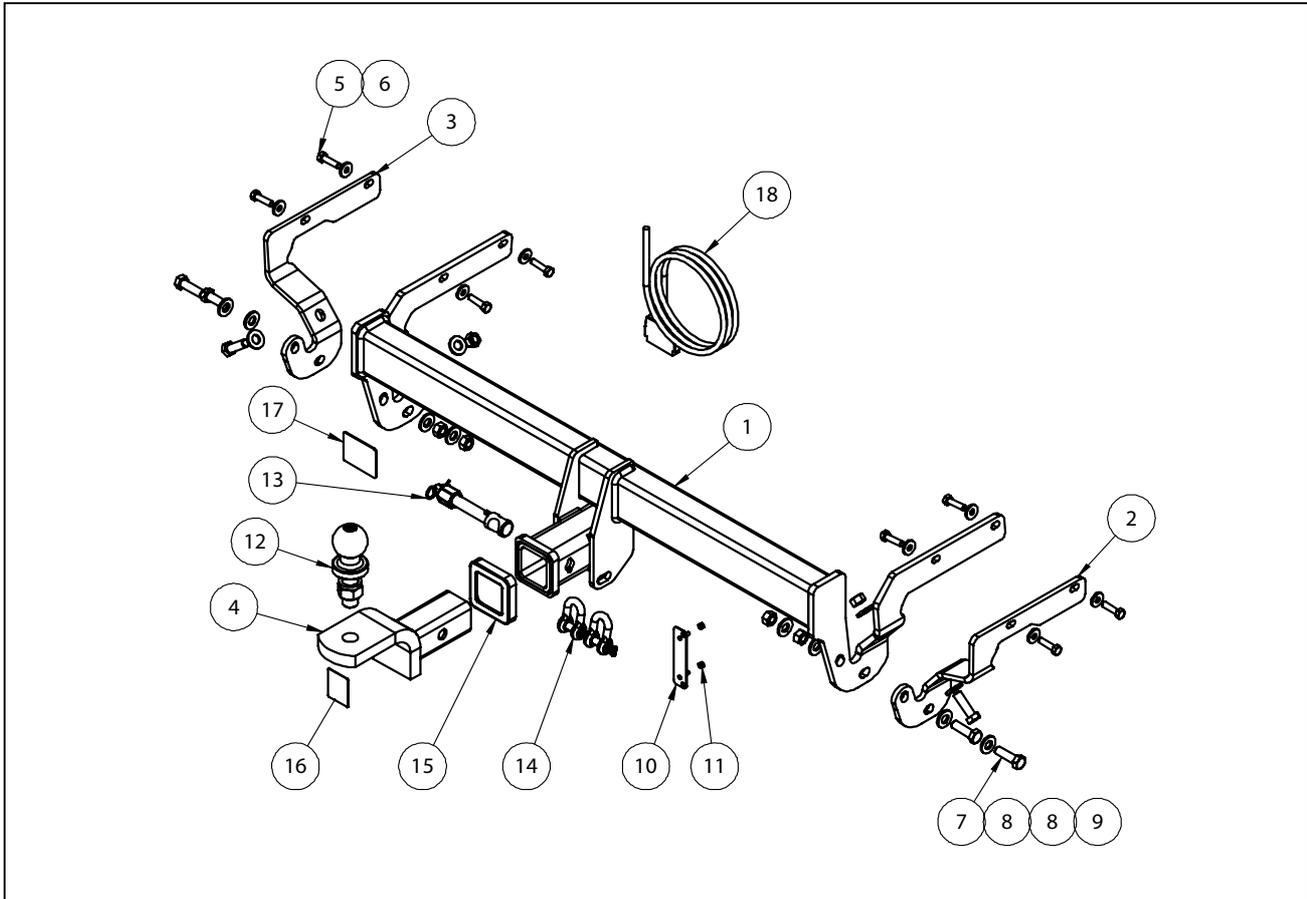
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QTY.	DESCRIPTION	ITME NO.
1	WELDED ASSY	1
1	SIDEARM BRACKET-RHS	2
1	SIDEARM BRACKET-LHS	3
1	TRAILER BALL MOUNT	4
8	BOLT HEX M8-1.25x30mm Gr. 10.9	5
8	FLAT WASHER M8x22x3.3mm	6
6	BOLT M12-1.25x40 GR 8.8	7
12	WASHER FLAT 1/2"x1/8"x1/8"	8
6	HEX NUT M12x1.25 PC8	9
1	PLUG BRACKET	10
2	NUT NYLOC M4-0.7 Z/P	11
1	HR TOWBALL	12
1	ANTI-RATTLE PULL PIN ASSY GOLD	13
2	10mm "D" SHACKLE	14
1	HITCH BOX COLLAR COVER	15
1	H.R STICKER	16
1	ACRYLIC COMPLIANCE PLATE	17
1	WIRING LOOM	18

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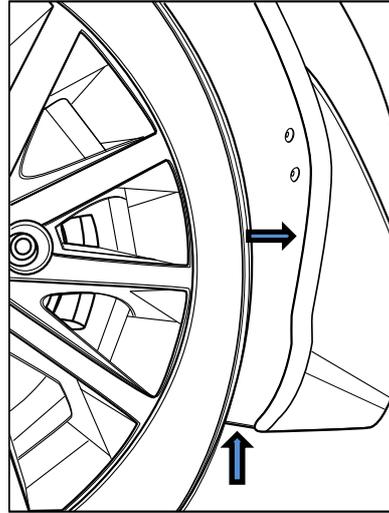
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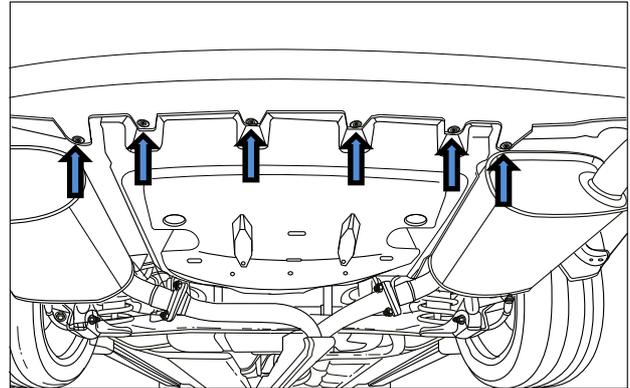
1. If mudflaps are fitted, remove 3 x fasteners within rear wheel arch securing the mudflaps to vehicle; remove mudflaps.

Repeat for opposite side of vehicle.

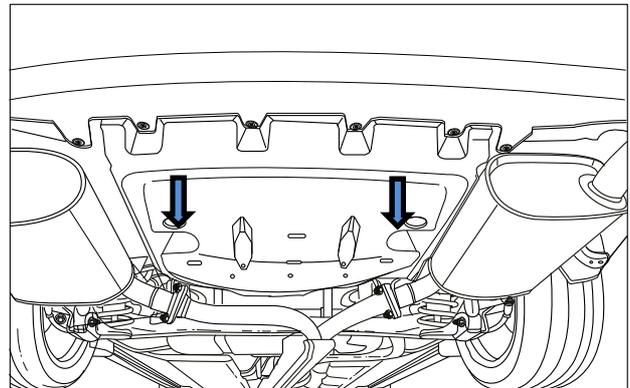
2. Remove 2 x Screws from rear wheel arch securing rear bumper.



3. Remove 2 x push Rivets and 4 x Screws located on the underside of rear bumper.



4. If fitted, remove the undercover by removing 5 x flanged Nuts.



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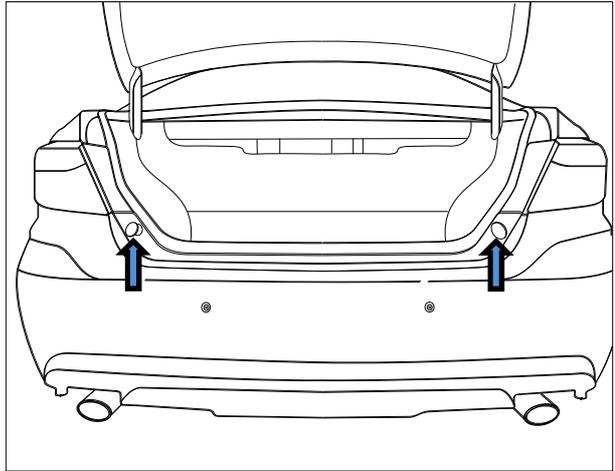
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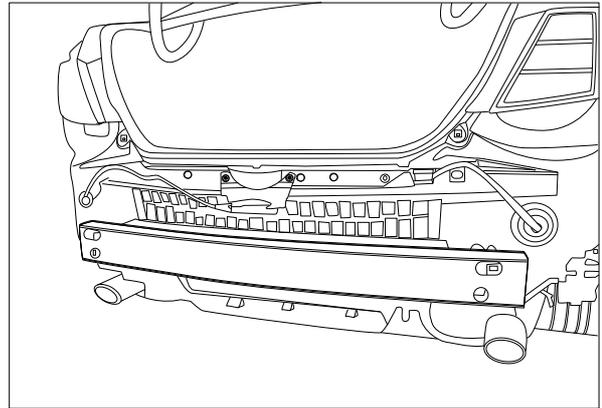
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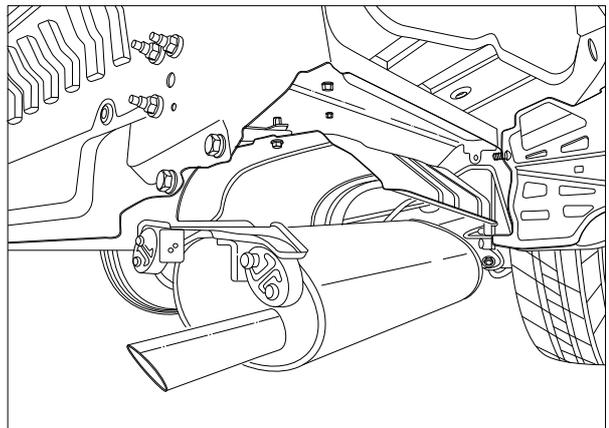
5. Remove 2 x covers on the rear bumper to access Screws securing the bumper to the body; remove 2 x Screws from beneath the covers.
6. Remove and disconnect both tail lights.
7. Carefully remove bumper.



8. Remove and discard 6 x Nuts securing impact beam to rear panel; remove and discard impact beam.



9. Lower the exhaust(s) off the rubber mounts (3 places each). Remove 3 x Bolts securing the exhaust bracket(s) and remove the rear exhaust bracket(s).
10. Remove heat shield(s) (3 Bolts) from the vehicle located above muffler(s).



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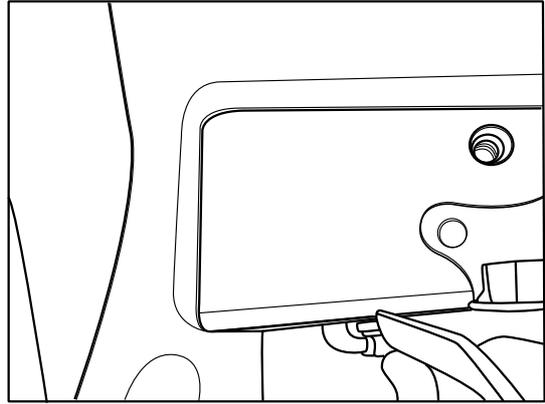
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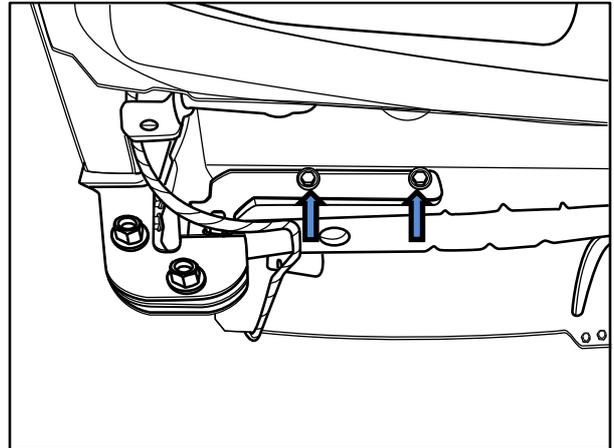
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11. Check chassis rail excess body sealer, remove any excess that may prevent sidearm fitment. Coat any bare metal exposed with rust inhibitor.

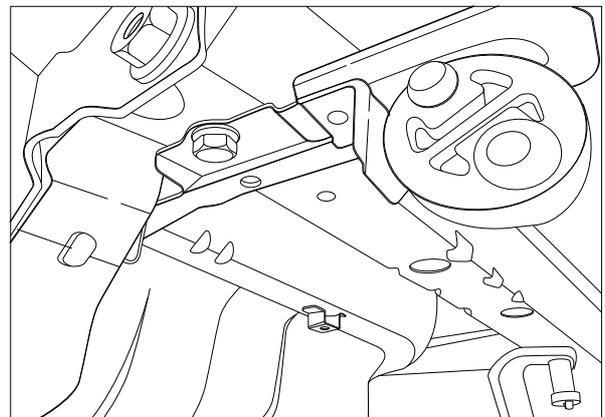


12. Offer the welded Towbar assembly to the vehicle. Loosely secure Towbar assembly mounts to the inner side of the chassis rails using 4 x M8 Bolts (2 per side), complete with 1 x Flat washer per Bolt.



13. Refit any exhaust hangers. Removed in step 8.

NOTE: Brackets to be tightened only after outer chassis brackets are fitted.



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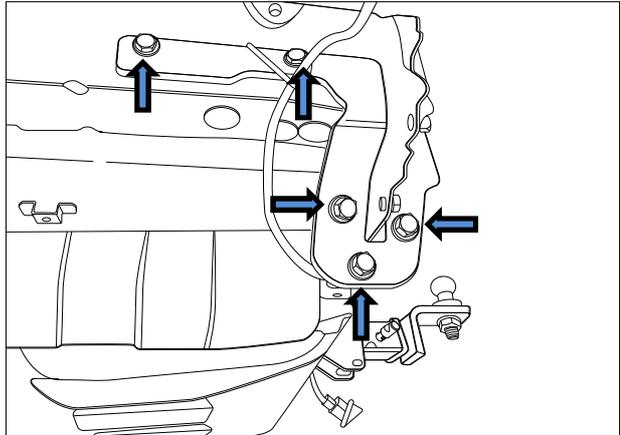
PLACE THESE INSTRUCTIONS IN THE VEHICLES'S GLOVEBOX AFTER INSTALLATION IS COMPLETED

14. Loosely secure the sidearm bracket onto the outer side of the chassis rail using 2 x M8 Bolts, complete with 1 x Flat washer per Bolt.

Repeat for opposite side of vehicle.

15. Loosely secure sidearm bracket to the welded Towbar assembly using 3 x M12 Bolts, complete with 2 x Flat washer and 1 x M12 Nut per Bolt.

Repeat for opposite side of vehicle.

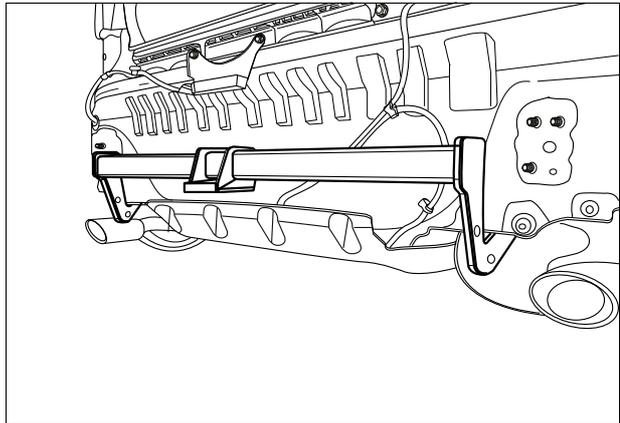


16. Tighten all fasteners to torques listed below:

M8 31N.m

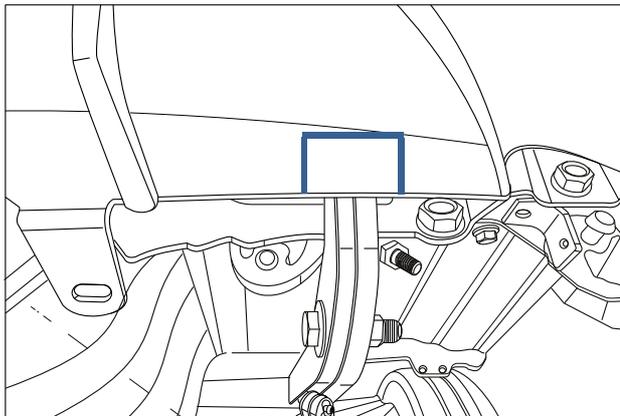
M12 89N.m

17. Secure all heat shields using original fasteners and refit exhaust/s. Tighten exhaust hangers removed in step 10.



18. Temporarily refit the bumper to the vehicle and mark the location of the Towbar side arms.

19. Cut the bumper at two places allowing 3-5mm each side. Dimensions of cut will be approximately 25mm tall x 35mm wide.



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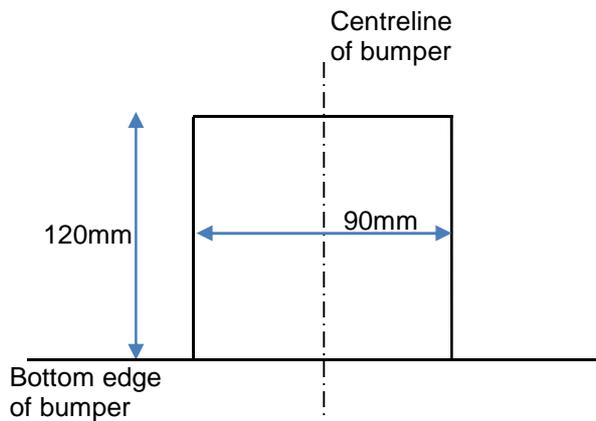
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ALTISE MODEL ONLY

20. Identify centre of bumper, and make cutout in centre of bumper 120mm tall x 90mm wide, starting at bottom edge of bumper (as measured on outside of bumper).

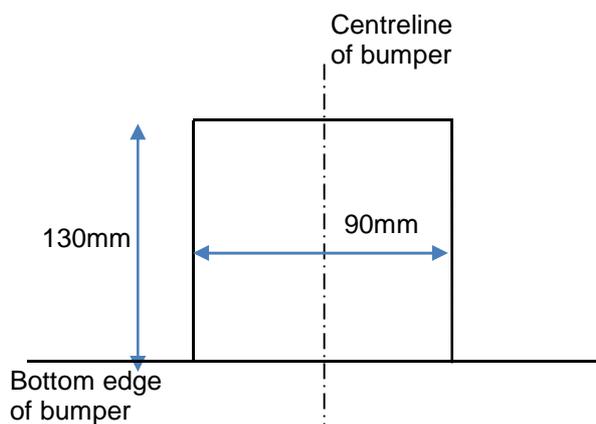
NOTE: Variation of bumper cut due to model year and variant may exist. It is highly recommended for the installer to review the cut against vehicle and proceed with caution.



ATARA MODEL ONLY

21. Identify centre of bumper, and make cutout in centre of bumper 130mm tall x 90mm wide, starting at bottom edge of bumper (as measured on outside of bumper).

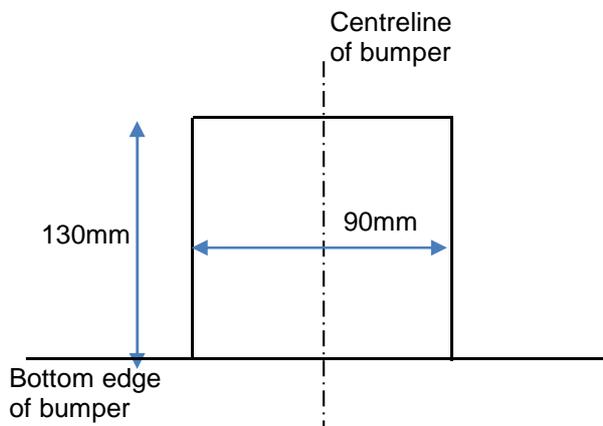
NOTE: Variation of bumper cut due to model year and variant may exist. It is highly recommended for the installer to review the cut against vehicle and proceed with caution.



AURION MODEL ONLY

22. Identify centre of bumper, and make cutout in centre of bumper 130mm tall x 90mm wide, starting at bottom edge of bumper (as measured on outside of bumper).

NOTE: Variation of bumper cut due to model year and variant may exist. It is highly recommended for the installer to review the cut against vehicle and proceed with caution.



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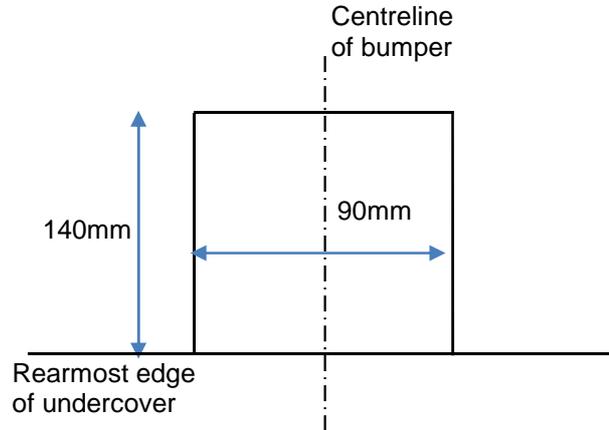
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MODELS WITH UNDERCOVER FITTED

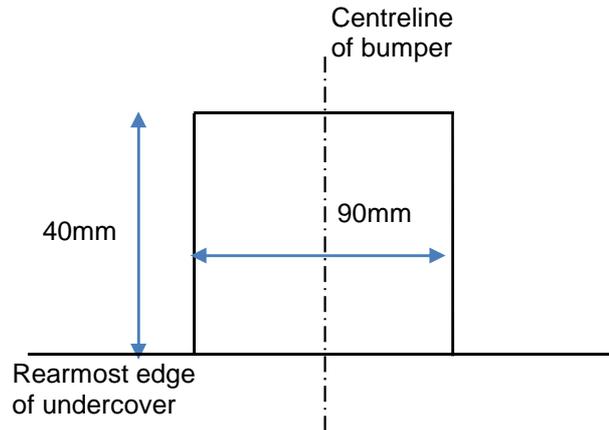
23. Identify centre of bumper, and make cutout in centre of bumper 140mm tall x 90mm wide, starting at bottom edge of bumper (as measured on outside of bumper).

NOTE: Variation of bumper cut due to model year and variant may exist. It is highly recommended for the installer to review the cut against vehicle and proceed with caution.



MODELS WITH UNDERCOVER FITTED

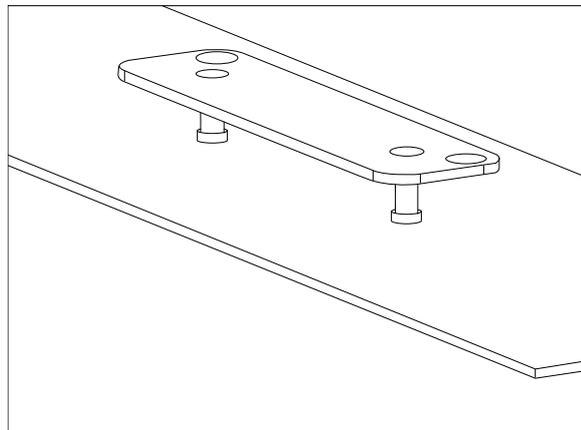
24. Identify centre of undercover, and make cutout in centre of undercover 40mm long x 90mm wide, starting at rearmost edge of undercover.



ALL MODELS

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

26. Reinstall bumper following steps 1 to 10 in reverse order.



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PART No: 100759-WL
TOYOTA CAMRY
(2011 – Onwards)

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Trailer Harness Installation Instructions

TOYOTA CAMRY
(2011 – Onwards)

Part No: 100759-WL

ECU Required: 04826

Tail Harness Length Required: 1800mm

RPA Override Switch Part No: 04848 (If Fitted)

Wiring Loom Installation time: Approx. 30 Mins

Issue Date 10-08-15

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Part No: 100759-WL

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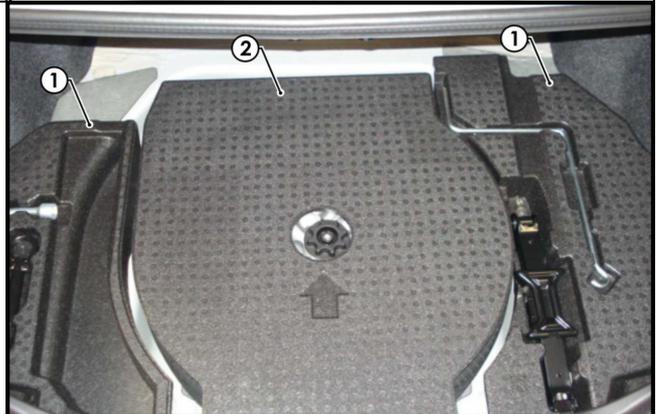
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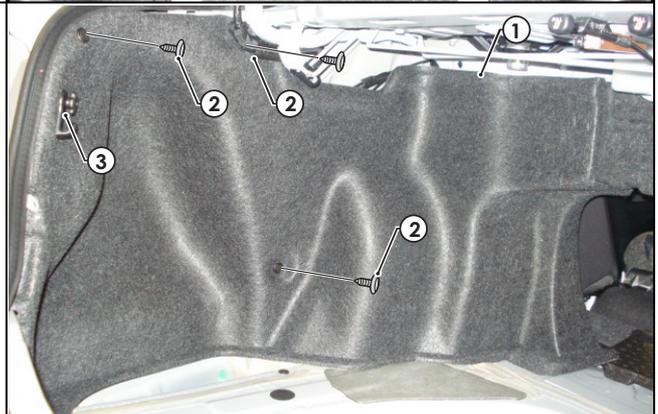
1. In the luggage compartment, remove the floor carpet cover (1) and remove the rear trim (2) by removing its five scrivets.



2. Remove the LHS and RHS tool storage compartment (1) and the centre wheel cover (2).



3. On the LHS of the luggage compartment, remove the luggage compartment trim (1) by removing the three scrivets (2) and the cargo hook (3).



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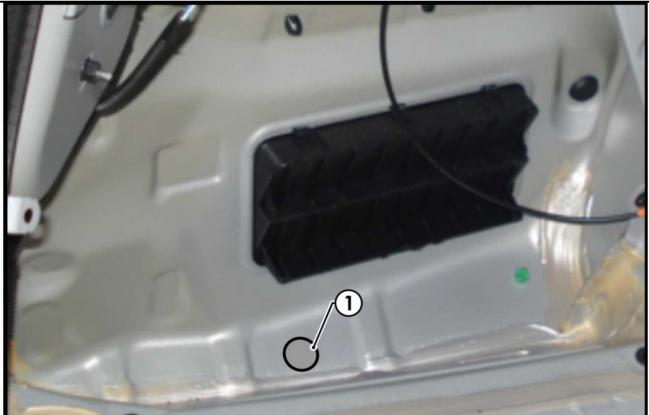


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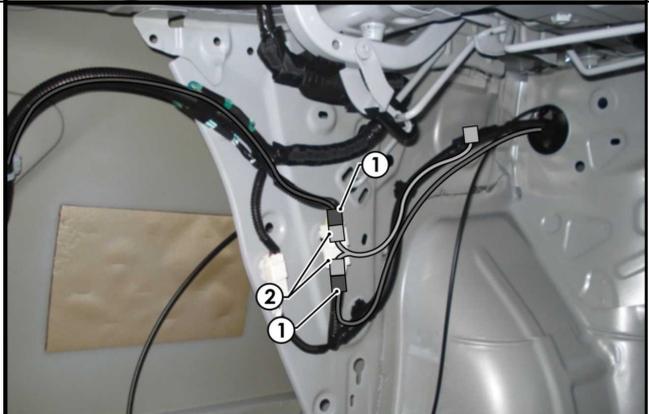
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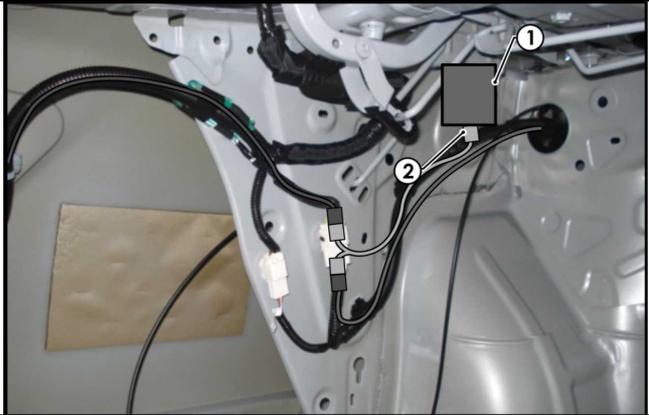
4. On the LHS rear quarter panel, below the air vent, drill out a Ø2mm pilot hole (1) in the floor of the vehicle sheet metal. Drill out the pilot hole to Ø30mm (1).
5. File any rough or sharp edges and then apply on rust inhibitor after drilling.



6. On the LHS of the luggage compartment, disconnect the 8-way vehicle connectors (1) and connect the trailer harness (100759-WL) connectors (2) in between.



7. Apply double sided tape to the ECU (1) and adhere it to the vehicle sheet metal on the LHS of the luggage compartment.
8. Connect the trailer patch 12-way Female connector (2) to the ECU (1).



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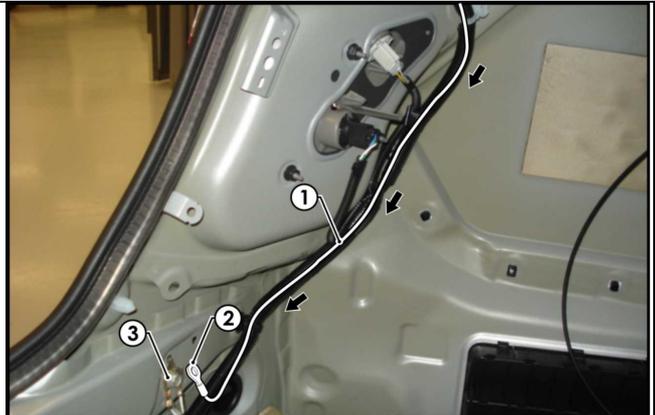


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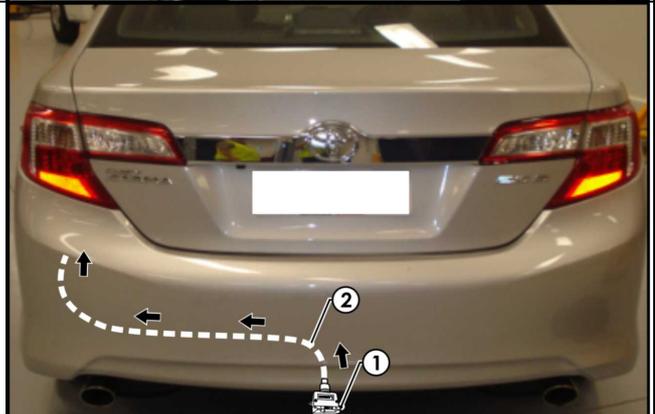
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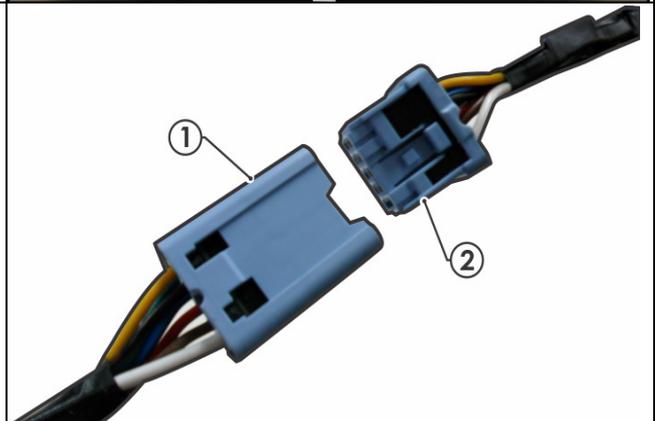
9. Route the trailer harness (1) along the existing vehicle harness towards the rear of the luggage compartment.
10. Connect the trailer patch ground ring terminal (2) to the vehicle grounding point (3).



11. Mount the trailer socket (1) to the towbar mounting bracket using M4 fasteners (not supplied).
12. Route the tail harness (tail length 1800mm) (2) towards the LHS of the vehicle and up through the previously drilled out hole.
13. Ensure the tail harness grommet is seated correctly and makes a good seal.
14. Secure the grommet in place using a cable tie (not supplied).



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



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<p>16. Test the Trailer Harness function using a light board or multimeter.</p> <p>17. Secure all harnesses using cable ties (not supplied).</p> <p>18. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.</p> <p>19. Place the instructions in the glove box after fitment.</p>	
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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.**

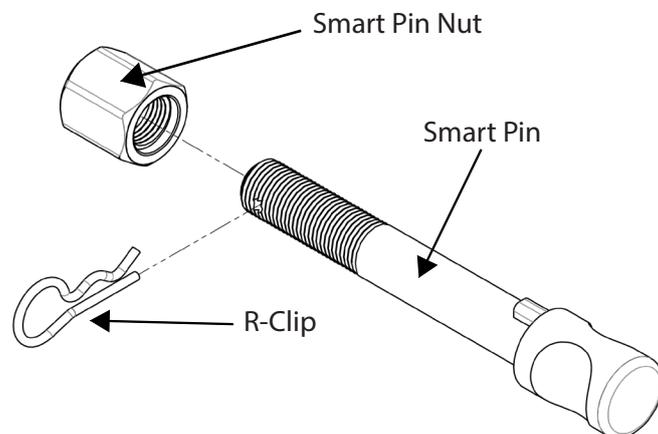
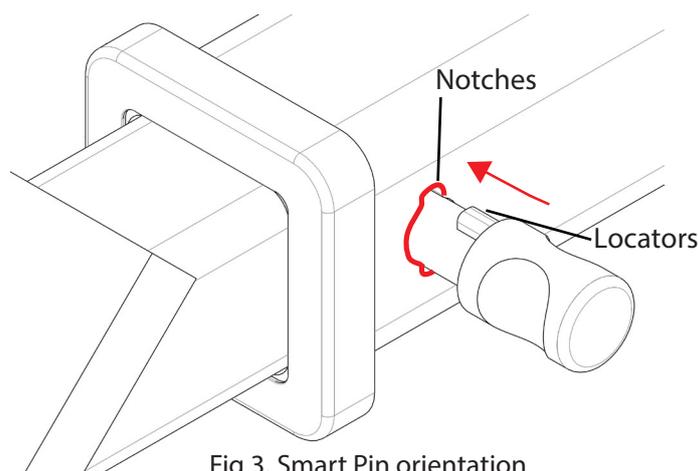
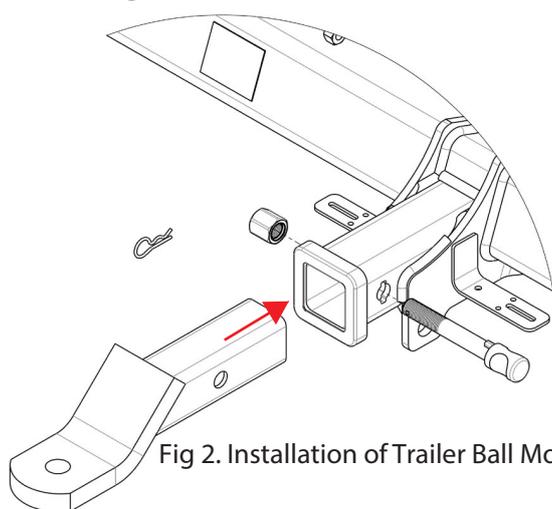


Fig 1. Smart Pin assembly

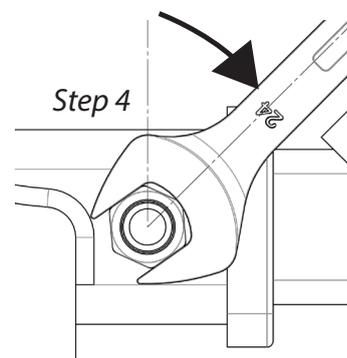
STEP 1 Insert Trailer Ball Mount (TBM) into towbar HITCHBOX, aligning hole in TBM SHANK with hole in HITCHBOX (Fig. 2).



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).

