HAYMAN REESE

PART No: 02966RW

TOYOTA FJ CRUISER 03/2011 ON

INSTALLATION INSTRUCTIONS

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



Installation Time: Approx 60 Mins

Towbar Installation Instructions	Towbar capacity	
TOYOTA FJ CRUISER 03/2011 ON		
Part Number 02966RW	Max Towing Braked	2250 kg
	Max Static Ball Load	225 kg

Hayman Reese (Cequent)
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Warning:

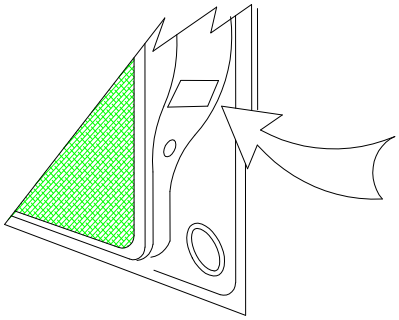
1. Do not, drill, cut, weld or otherwise modify the towbar.
2. If you are using electric welding on a motor vehicle, **always** check that the vehicle is not equipped with electronic engine or instrument management equipment. Failure to do so could **destroy** any onboard computers. If in doubt, check with the vehicle's manufacturer.

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.
11. Pull Pin must be fit in down position.

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.

HAYMAN REESE

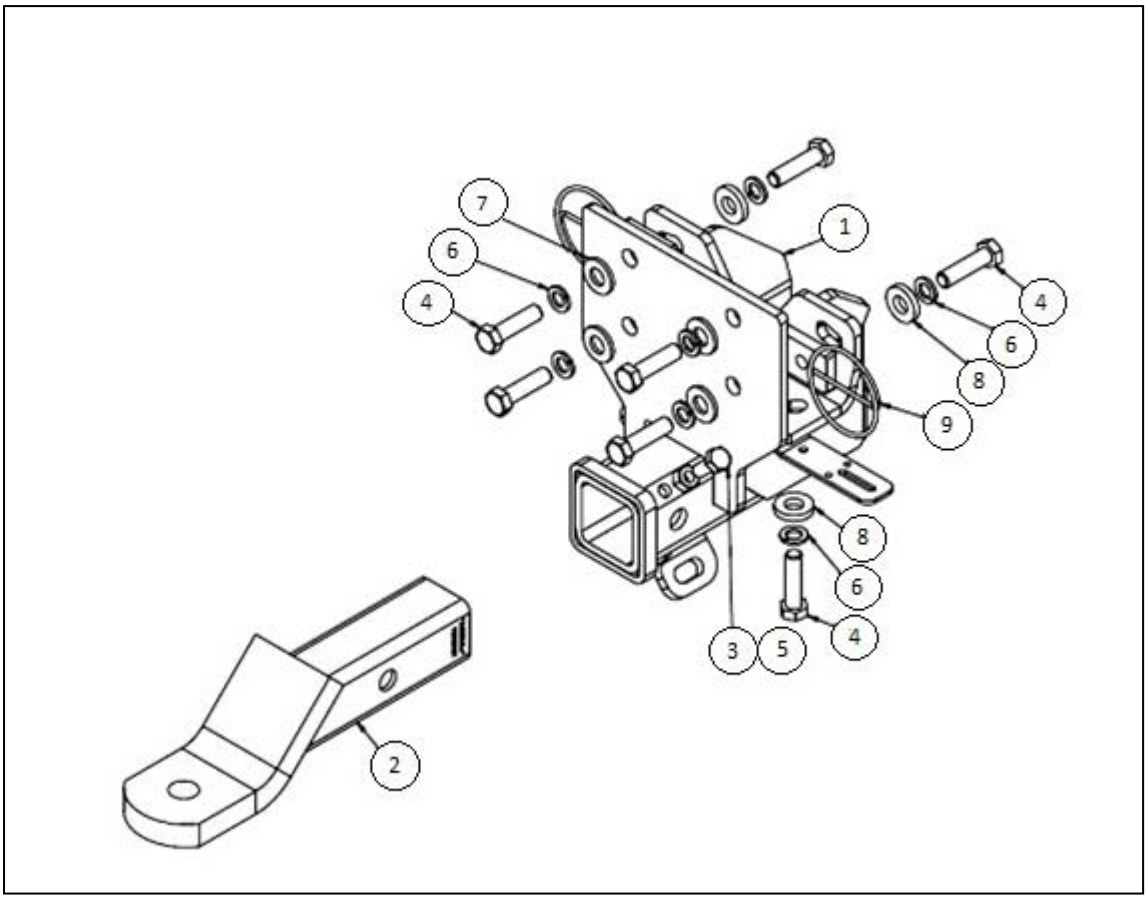
PART No: 02966RW

TOYOTA FJ CRUISER 03/2011 ON

INSTALLATION INSTRUCTIONS

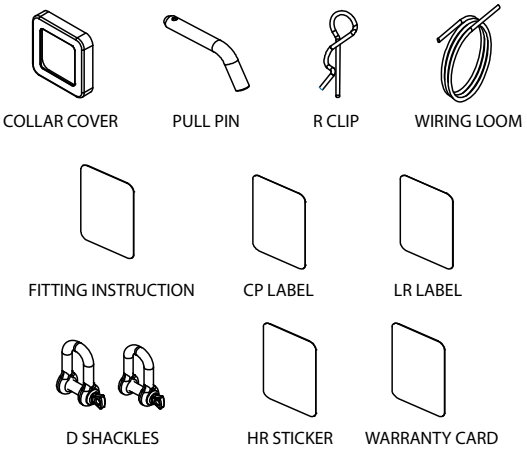
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QTY	DESCRIPTION	ITEM NO.
1	WELDED ASSEMBLY	1
1	T.B.MOUNT	2
1	BOLT M10-1.50 x 25	3
8	SET SCREW M12-1.25x45mm GR 10.9 Z/P	4
1	M10x1.5 HEX NUT PC8	5
8	WASHER SPRING FT SEC M12x4.0x2.5mm Z/P	6
4	M14x28x3 Z/P FT WASHER	7
4	WASHER FT M12 (13.8mm)x28.5x5mm Z/P	8
2	M12x1.25 TAP PLATE WITH 300 WIRE	9

ADDITIONAL ITEMS



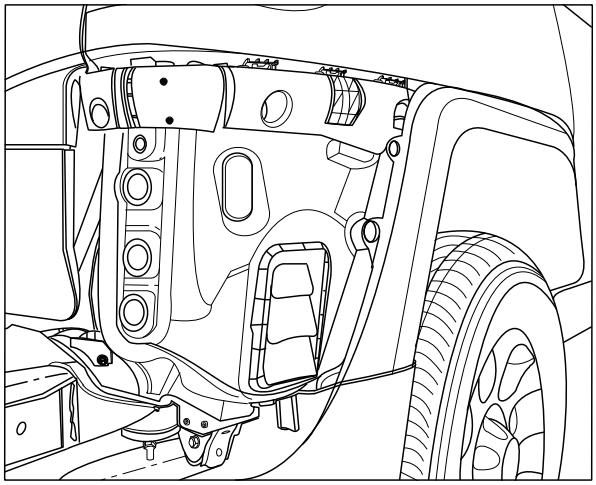
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1. Open Tail Gate (Boot) to expose Bumper Bolts.

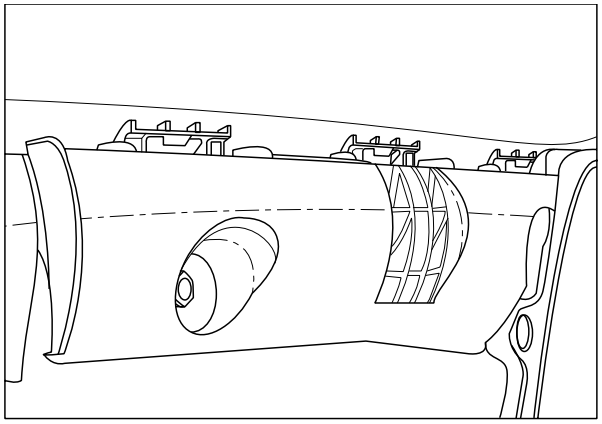
   Remove all Bolts from top section of Bumper Bar, across the face and sides.

   Remove all Plastic Trim Buttons from underneath of Bumper Bar



2. Flex Bumper sides outwards, pull and slightly lift each side off clips. Disconnect any wiring connections.

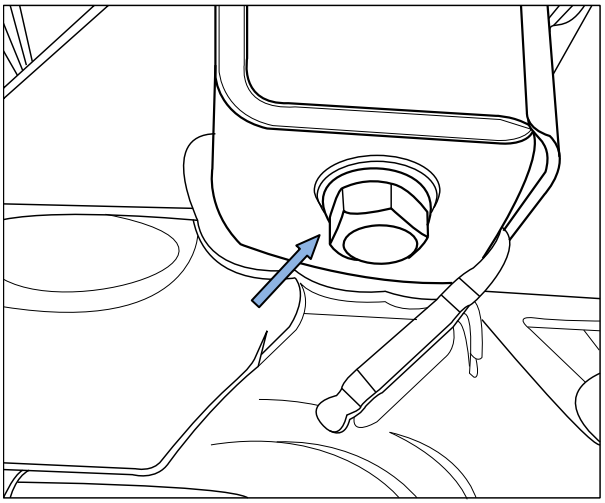
   Remove Bumper and Bumper Foam support from vehicle, place to the side.



3. Fitment of Towbar to vehicle sub frame it is imperative that fastening sequence is followed:

   Offer Towbar to the vehicle sub frame so that the holes in the towbar align with captive nuts in the sub frame.

   Loosely fit M12 Bolts Flat & Spring Washers to under side mount first.



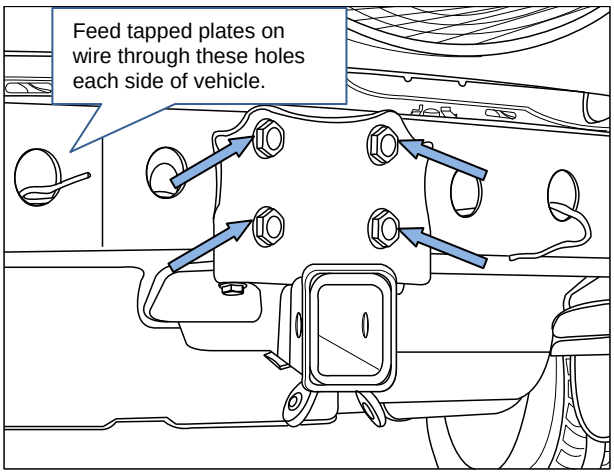
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4. Feed Tapped Plates on wire through access holes located on the front of the sub frame.

Align Tapped Plates on wire with holes located on the rear of the Towbar & sub frame.

Fasten loosely M12 Bolts with Flat & Spring Washers into tapped plates.

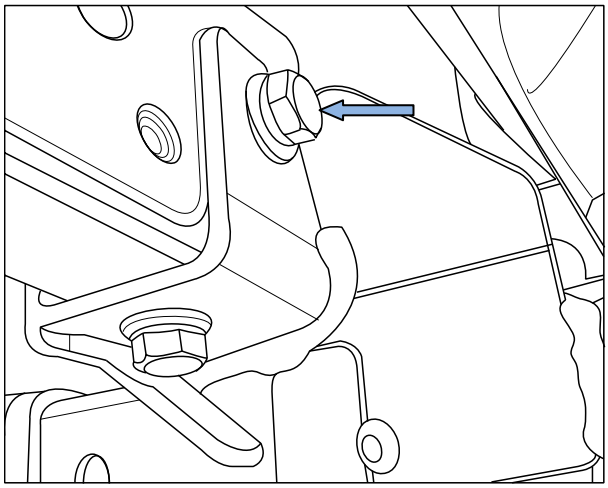


5. Fasten underside Bolts step 1 semi tight.

Fasten rear Bolts step 2 to Torque listing.

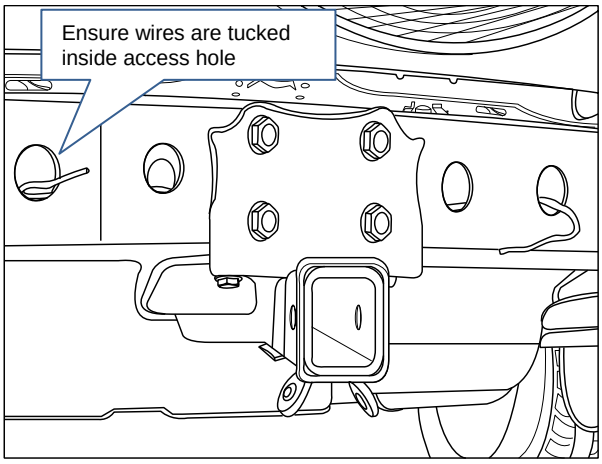
Fasten underside Bolts step 1 to Torque listing.

Fit then fasten to Torque listing M12 Bolts with Flat & Spring Washers to captive Nuts on vehicle sub frame.



6. Ensure that the Wires on tapped plates are tucked away inside access hole, then folded at ends.

Do not break the wires off tapped plates after fitment. In case Towbar has to be removed, the tapped plates can be removed easily.



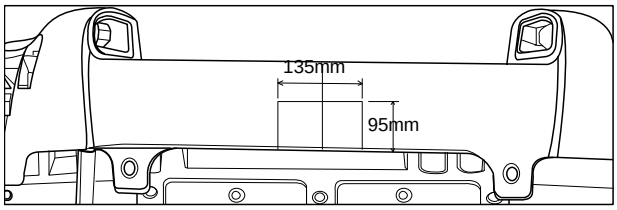
7. Place masking tape over area of Bumper, to be cut out so as not to damage bumper bar skin.

   Establish centre line of Bumper, then mark out 67.5mm from each end of centre line = 135mm.

   Measure up 95mm from bottom edge of Bumper Bar.

   Cut out with suitable hacksaw or similar device, ensure cut is clean and free of burrs.

   Refit bumper bar in reverse order.



Measure Equally – Both Sides
From Centre Line of Bumper

8. Fit additional items to Towbar, item list shown in diagram on page 3.

HAYMAN REESE
PART No: 100865-WL
TOYOTA, FJ CRUISER, GSJ15R

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

Wiring Loom Installation Instructions

TOYOTA, FJ CRUISER, GSJ15R

Part No: 100865-WL
ECU Required: 04826

Tail Harness Length Required: 1200mm

Wiring Loom Installation Time: Approx. 30 minutes

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TOYOTA, FJ CRUISER, GSJ15R

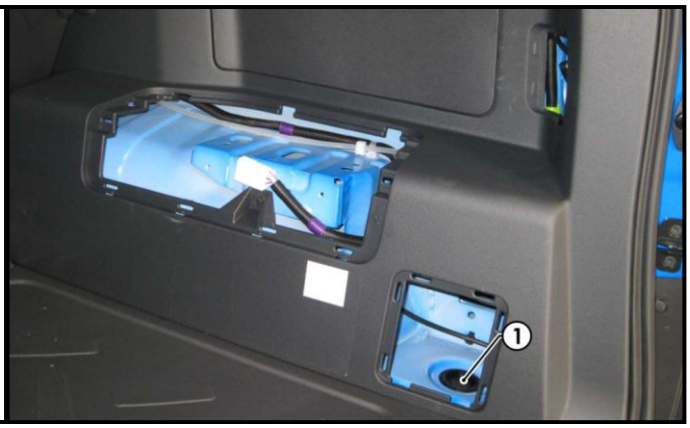
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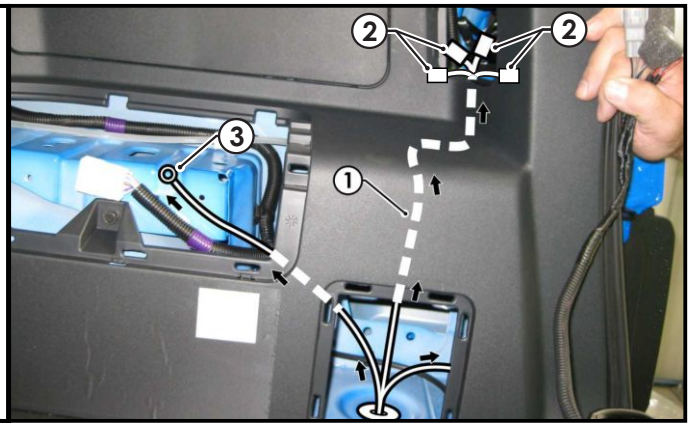
1. In the luggage compartment, remove the RHS storage compartment (1).
2. Remove the RHS access panel covers (2).



3. Remove the RHS vehicle grommet (1).
4. Feed the two un-housed patch terminal connectors and the 8-way 'BLUE' tail connector down through the grommet hole.
5. Ensure the trailer patch grommet is seated correctly and secure it in place using a cable tie (not supplied).



6. Route the trailer patch (P/No: 100865-WL) (1) RHS tail light connectors (2) towards the RHS tail light cavity.
7. Route the trailer patch (1) ground ring terminal (3) towards the front of the vehicle.
8. Route the trailer patch (1) 3-way male connector towards the rear of the vehicle.



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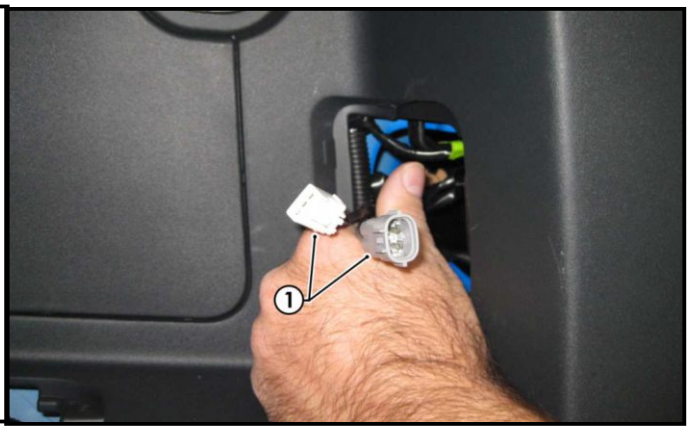
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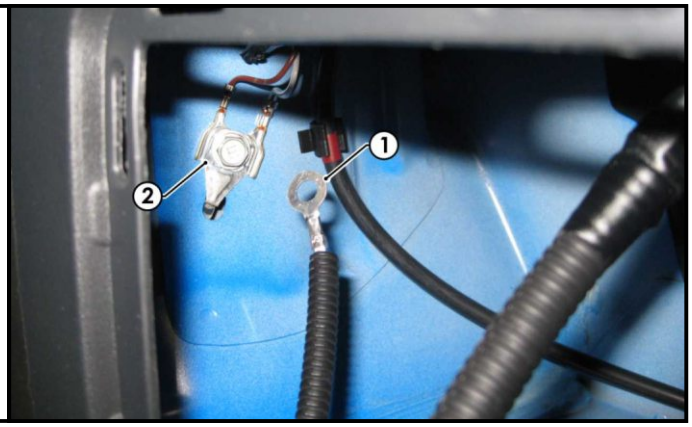
9. Locate and disconnect the RHS tail light 2-way and 3-way connectors.

10. Patch the trailer patch 2-way and 3-way connectors (1) in between the vehicle connectors and the RHS tail light assembly.

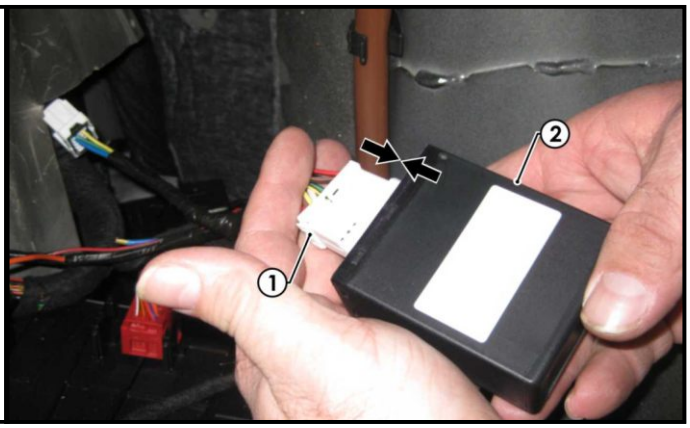
Note: It may be easier to patch into the vehicle reverse connector by first removing the reverse globe holder.



11. Connect the trailer patch ground ring terminal (1) to vehicle ground point (2) using the existing fastener.



12. Connect the trailer patch 12-way connector (1) to the ECU (P/No: 04826)(2).



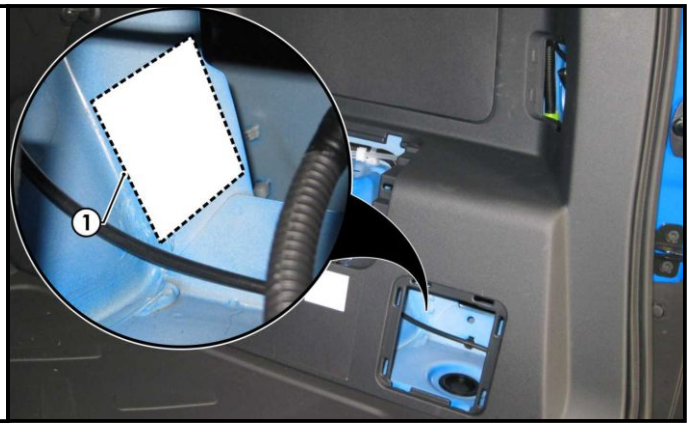
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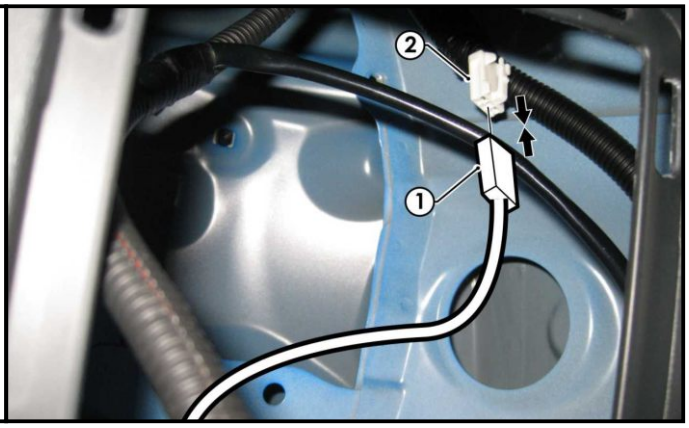
INSTALLATION INSTRUCTIONS

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13. Adhere the ECU to the vehicle sheet metal, in the indicated area (1).



14. Connect the trailer harness 3-way male connector (1) to the vehicle 3-way female mating connector (2).



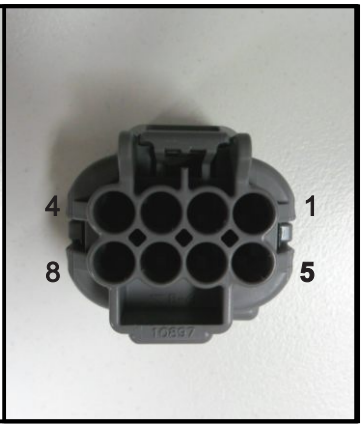
This Step for vehicle's with an 8-way tail light connector only:

15. Following the table below, house the trailer harness terminals into their designated pins.

16. Secure the housed pins using the connector's secondary lock.

TERM.	COLOUR
1	GY (Pass through)
2	GY (Pass through)
3	GY (Pass through)
4	GY (Pass through)
5	GY (Pass through)
6	GN / BK(Label RHS)
7	GY (Pass through)
8	YL / BK (Label LHS)





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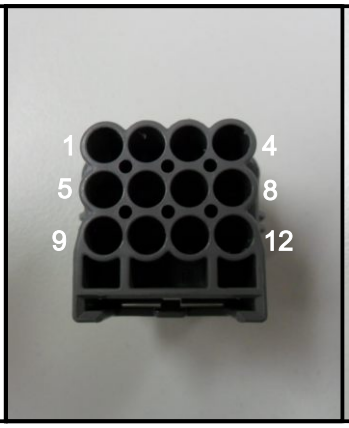
PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

This Step for vehicle's with a 12-way tail light connector only:

17. Following the table below, house the trailer harness terminals into their designated pins.

18. Secure the housed pins using the connector's secondary lock.

TERM.	COLOUR
1	GN / BK (Label RHS)
2	GY (Pass through)
3	YL / BK (Label LHS)
4	GY (Pass through)
5	GY (Pass through)
6	GY (Pass through)
7	GY (Pass through)
8	GY (Pass through)
9	GY (Pass through)
10	GY (Pass through)
11	GY (Pass through)
12	GY (Pass through)

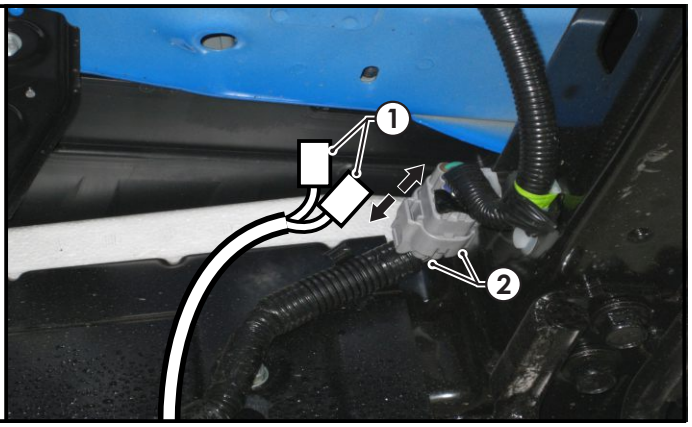




19. Route the previously housed trailer patch 8-way or 12-way connectors (1) towards the LHS of the vehicle.

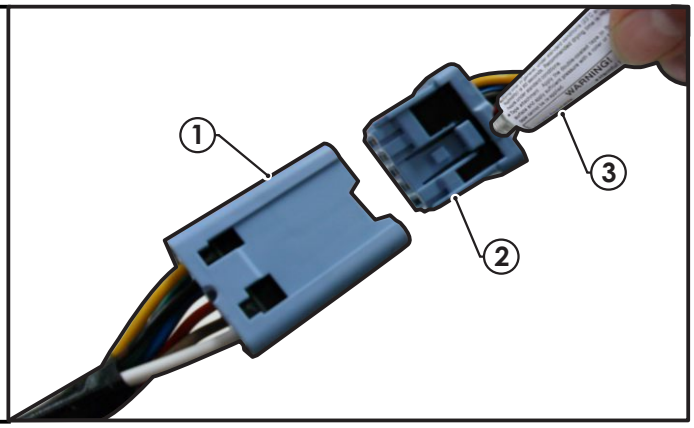
20. From underneath the vehicle locate and disconnect the 8-way or 12-way vehicle connectors (2).

21. Connect the 8-way or 12-way trailer patch mating connectors (1) in between the vehicle connectors (2).



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

23. Waterproof the trailer patch 8-way connector (1) and the tail harness 8-way male connector (2) using silicone or grease (3).



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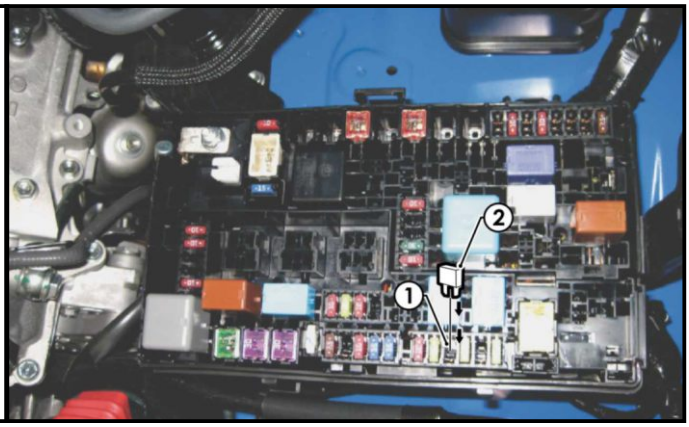
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24. Mount the trailer socket (1) to the towbar mounting bracket using M4 fasteners (not supplied).



25. Inside the engine bay, locate the vacant 30-amp fuse slot (1) (Towing No.2). **Refer to the back of the fuse cover lid to locate the slot.**

26. Insert the supplied 30-amp fuse (2) into the vacant slot (1).



27. Test the trailer harness function using a light board or multi-meter.

28. Secure all harness using cable ties (not supplied).

29. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.

30. Place the 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.**

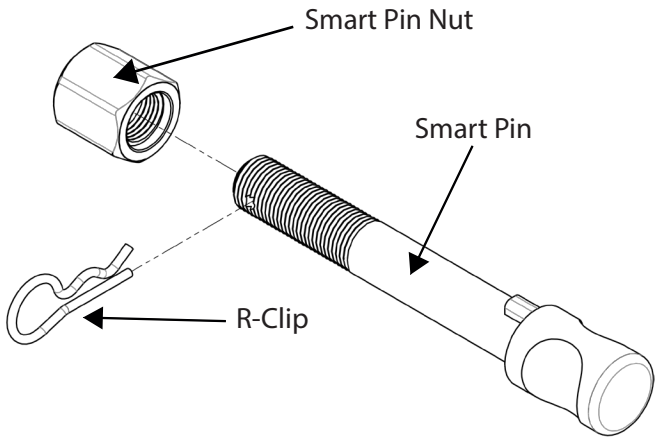


Fig 1. Smart Pin assembly

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

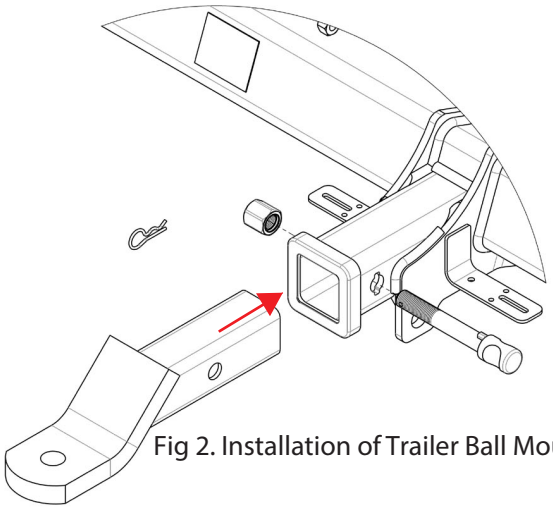


Fig 2. Installation of Trailer Ball Mount

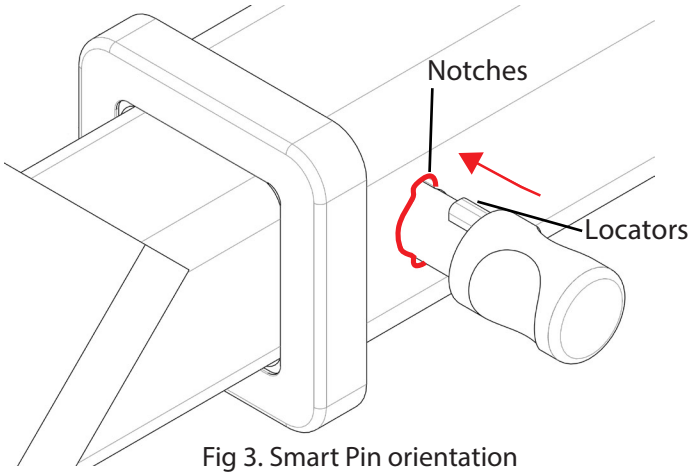


Fig 3. Smart Pin orientation

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).

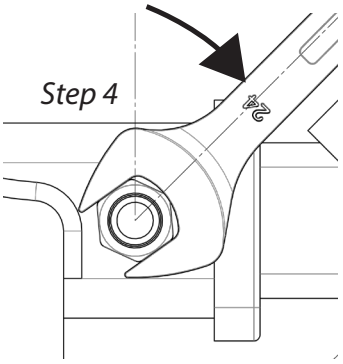


Fig 4. Tightening of Smart Pin Nut

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