

**HAYMAN REESE**  
**PART No: 02974RW**  
**KIA SORENTO 09/2012 ON**

## 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 **40** Mins

**Towbar Installation Instructions**

**Towbar capacity**

**KIA SORENTO 09/2012 ON**

**Part Number 02974RW**

**Max Towing Braked 2500 kg**

**Max Static Ball Load 150 kg**

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

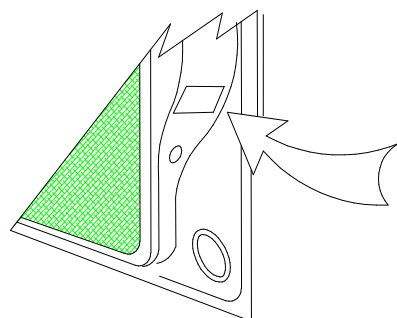
### Tow bar Maintenance and Care.

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.

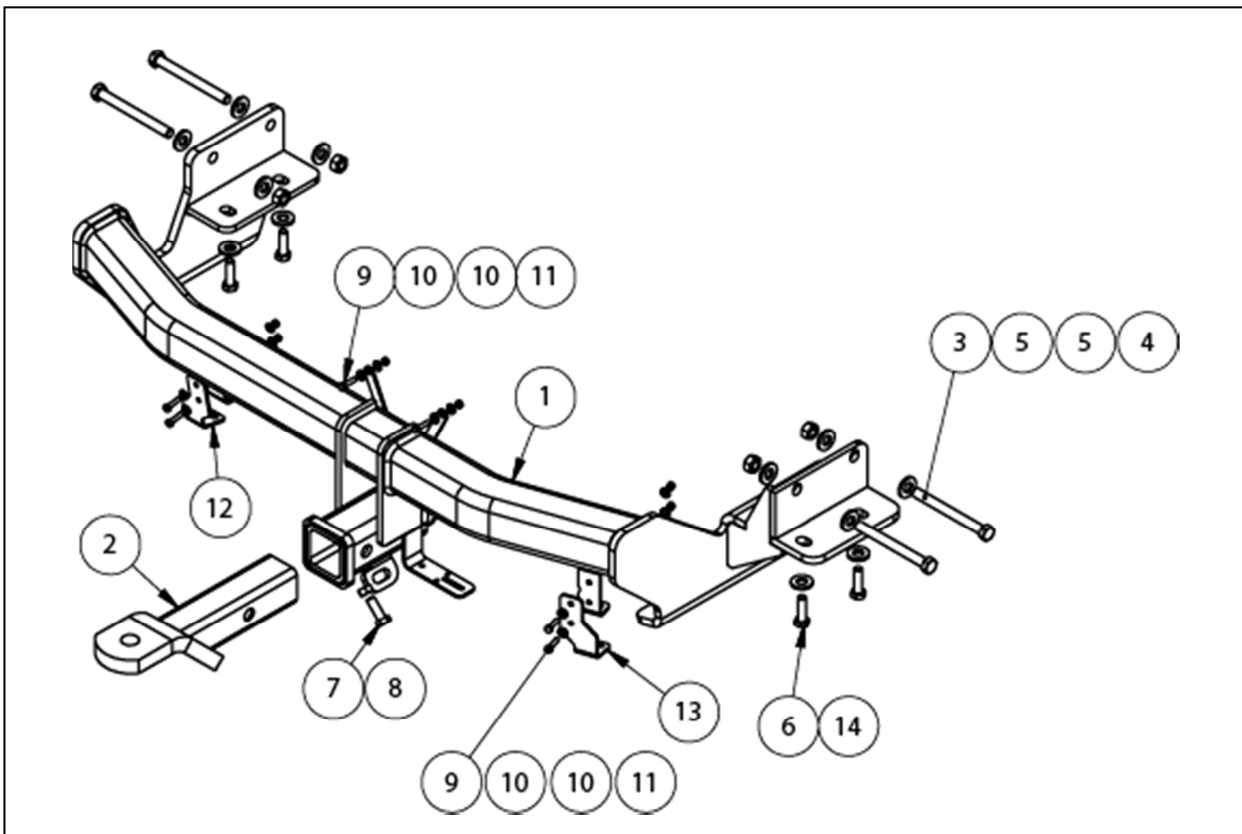
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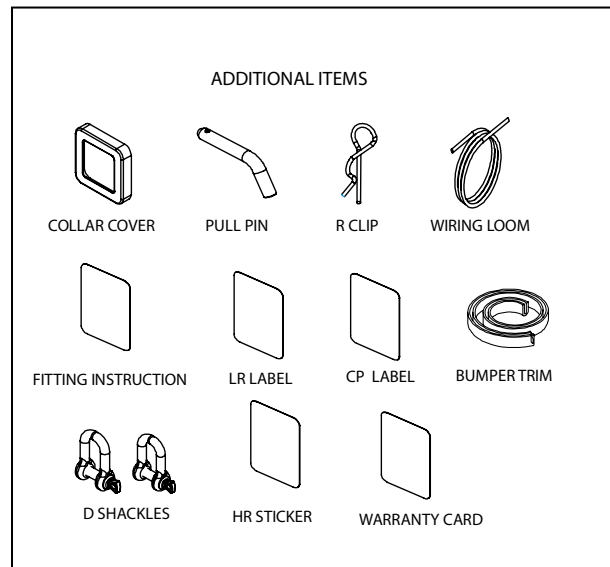
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QTY	DESCRIPTION	ITEM NO.
1	TOWBAR WELDED ASSY	1
1	T.B.MOUNT	2
4	BOLT HEX HD M12x120x1.25P	3
4	M12x1.25 HEX NUT PC8	4
8	WASHER FLAT 1/2"x1 1/8"x1/8"	5
4	SET SCREW HEX HD M10x35x1.25P	6
1	SET SCREW HEX HD M10x30x1.5P	7
1	HEX NUT M10x1.5	8
6	SET SCREW HEX HD M5x20x0.8P	9
12	WASHER FLAT M6x12.5x1.2	10
6	NUT NYLOC M5-0.8 Z/P	11
1	BUMBER ADAPTER PASSENGER SIDE	12
1	BUMBER ADAPTER DRIVERS SIDE	13
4	WASHER FLAT M10x25.4x3	14



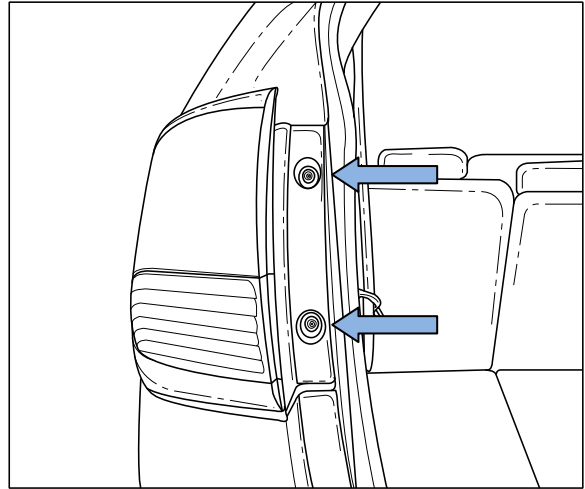
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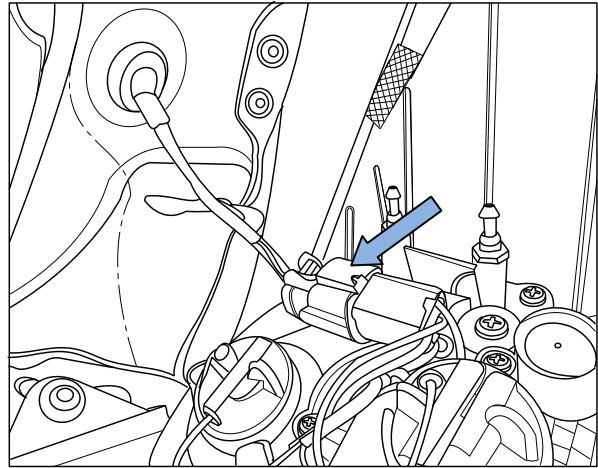
1. Open boot and remove 2x Screws from the LHS Tail Light.

Repeat for RHS.



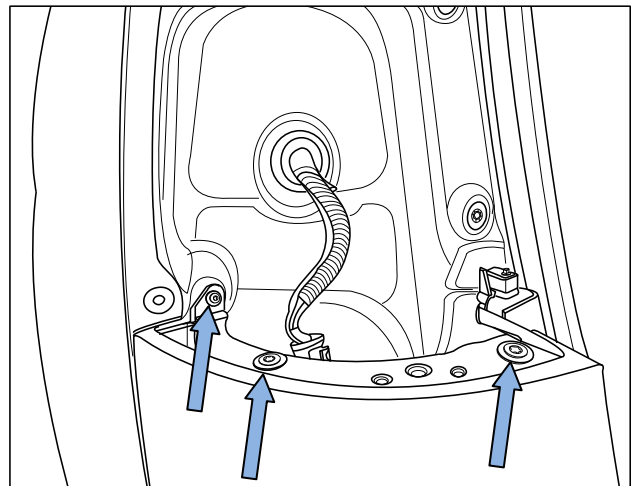
2. Remove LHS Tail Light and disconnect the Connector.

Repeat for RHS.



3. Remove 2x Scrivets and one Screw from inside the LHS Tail Light Cavity.

Repeat for RHS.

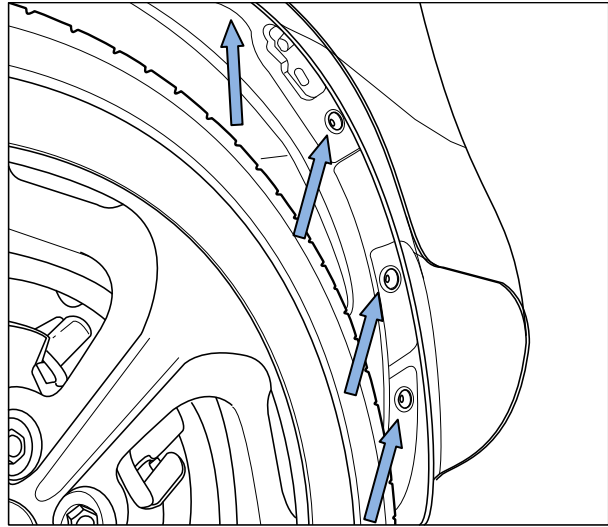


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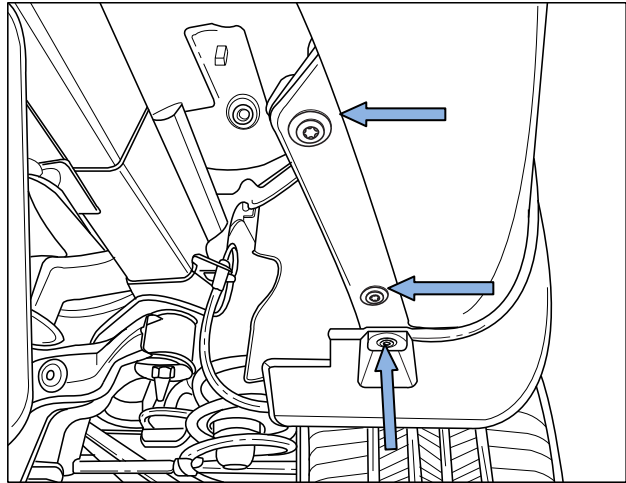
4. Remove 3x Screws and Scrivet from inside the LHS Wheel Arch.

Repeat for RHS.



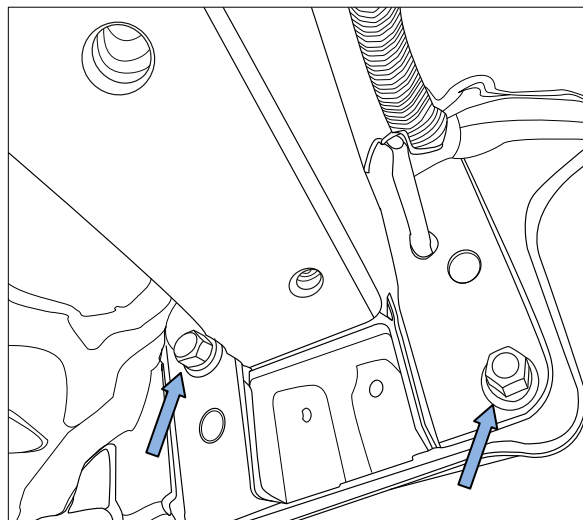
5. Remove 3x Screws from underneath of Bumper on the RHS.

Repeat for the LHS.



6. Remove 2x Bolts from underneath vehicle on RHS Back Panel.

Repeat for LHS.



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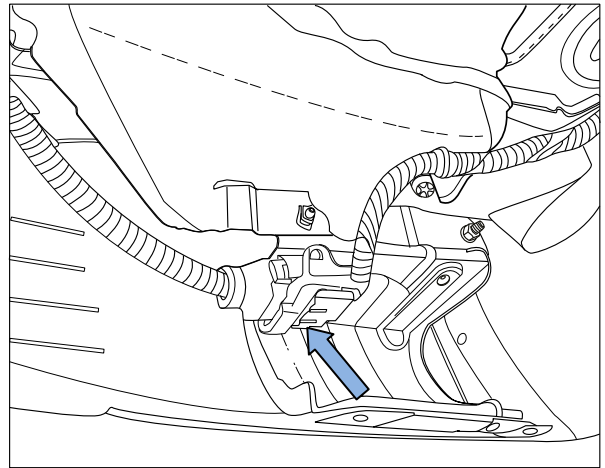
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7. Disconnect the Wiring Connector near the LHS Chassis Rail at the Rear of the vehicle.

If fitted, remove reverse Sensor and Rear view Camera Connectors.

Carefully remove Bumper and place in a safe area.



8. Remove Rubber Grommet from underneath of both Chassis Rails.

Offer towbar to vehicle. The Towbar will sit on the outer face of the LHS Chassis Rail, and the inner face of the RHS Chassis Rail.

Loosely secure the Towbar using the fastener sequence as seen on Page 3.

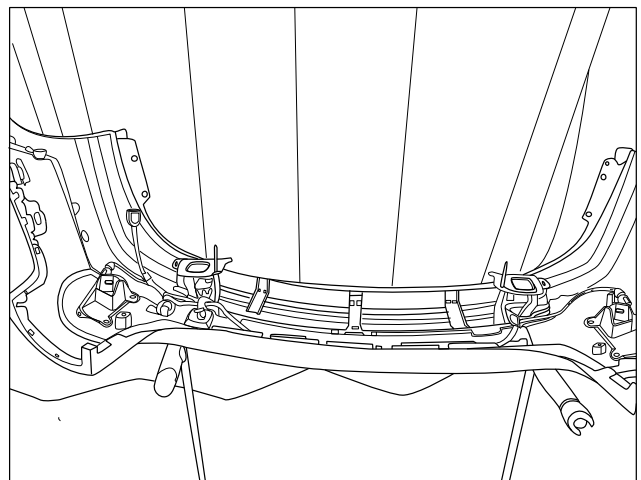
If fitted, reattach Smart – Key Sensor to Towbar Bracket.

Discard loose Bumper Brackets (not needed for this model).

Tighten to Torque specifications on Page 2.

9. Remove Impact Beam from Bumper by dislodging 5x Scrivets and Wiring Plugs.

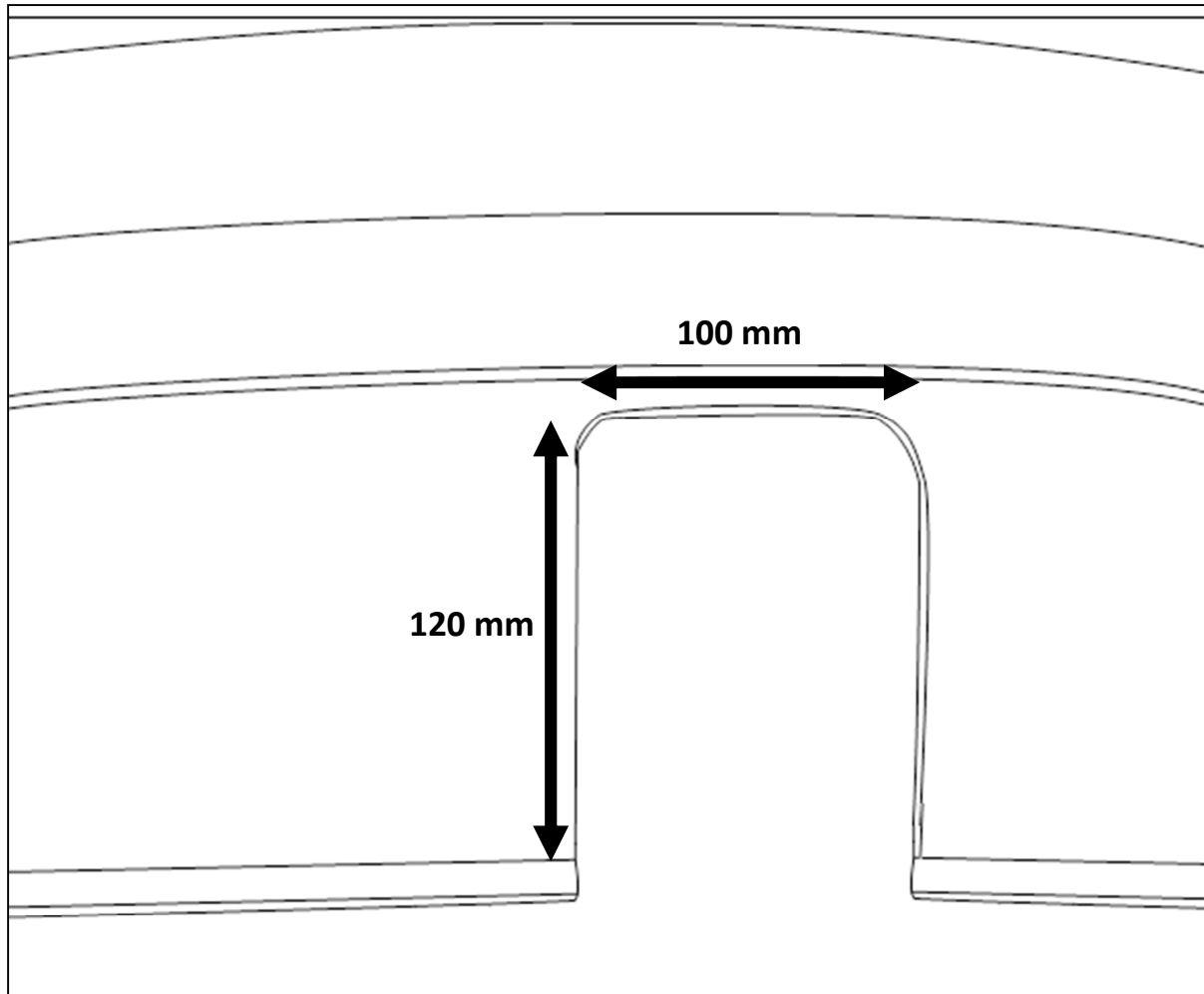
Retain 2x Scrivets.



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10. Cut Bumper as shown below. Use Bumper Trim supplied.
11. Re-attach Bumper using steps 1-7 in reverse. Use 2x retained Scrivets to attach Bumper to Towbar.



**BUMPER CUT**  
**(NOT TO SCALE)**

**HAYMAN REESE**  
**PART No: 100873-WL**  
**KIA SORENTO MY12**

## **INSTALLATION INSTRUCTIONS**

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**Wiring Loom Installation Instructions**

**KIA SORENTO MY12**

**Part No: 100873-WL**  
**ECU Required: 04835**

**Tail Harness Length Required: 400mm**

**Wiring Loom Installation Time: Approx. 30 minutes**

Issue Date 26-04-13

Page 1

Part No: 100873-WL

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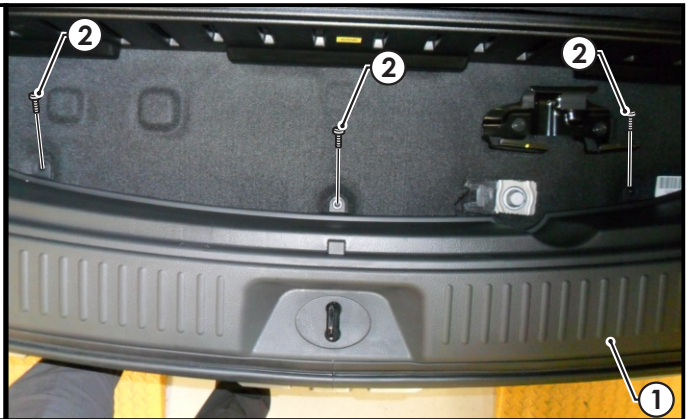
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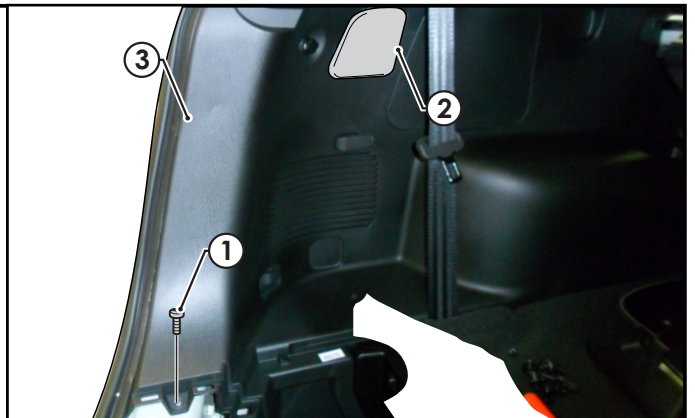
1. Remove the rear bumper fascia by removing all the fasteners.
2. In the luggage compartment, remove the tool compartment carpet cover (1).



3. Remove the rear luggage compartment trim (1) by removing the three screws (2).



4. On the LHS of the luggage compartment, remove the screw (1) and remove the access panel (2).
5. Dislodge the LHS luggage compartment trim (3).



Issue Date 26-04-13

Page 2

Part No: 100873-WL

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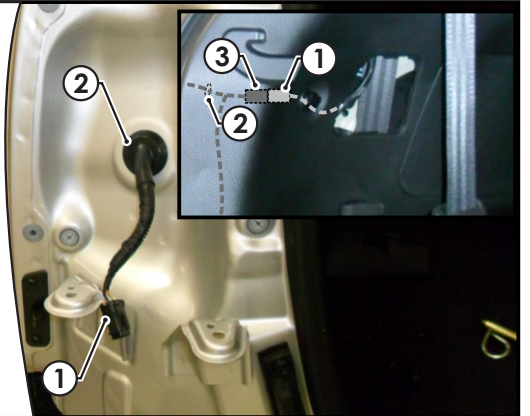
6. Remove the LHS tail light (1) by first removing the two screws (2) and disconnect the tail light assembly connectors.

Repeat for the RHS.



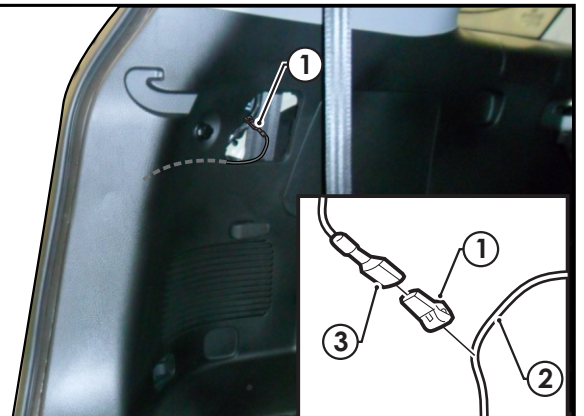
7. Inside the luggage compartment, pull the LHS tail light harness connector (1) and grommet inside the vehicle through the grommet hole (2). Connect the trailer patch (100873-WL) connector (3) to the tail light harness connector.
8. Feed the trailer patch (100873-WL) connector & grommet out through the grommet hole (2).

**Note: Ensure when connecting the trailer patch the grommet makes a good seal.**



9. On the LHS of the luggage compartment, following the table below, connect the ezy-tap (1) to the vehicle 'BLUE' reverse wire (2), then connect the trailer patch terminal (3) to the ezy-tap (1).

Function	Trailer Patch	Vehicle Connector
REVERSE	BLACK / WHITE	BLUE



Issue Date 26-04-13

Page 3

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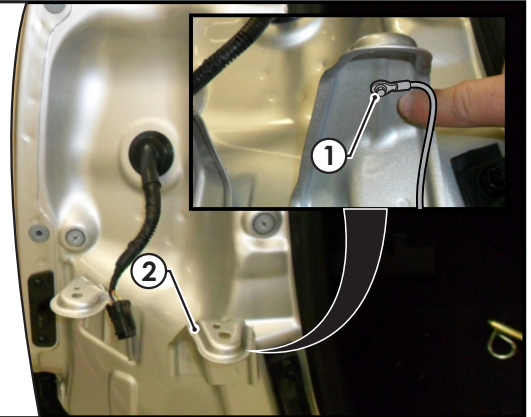
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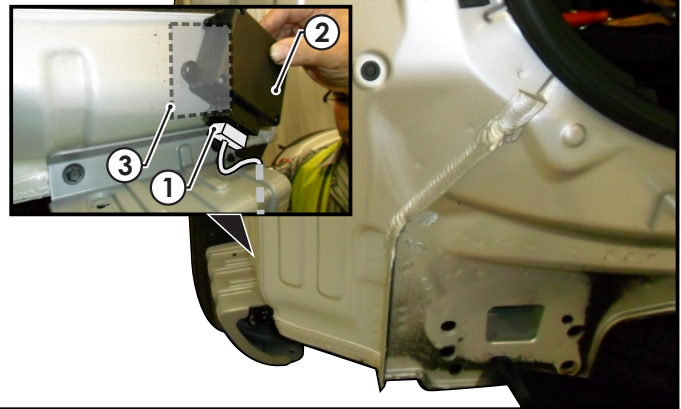
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10. Using a tek screw, secure the ground ring terminal (1) to the underside of the LHS bracket (2) as shown.



11. Connect the trailer patch 24-way connector (1) to the ECU (04835) (2).
12. Apply double sided tape to the ECU (1) and adhere it to the vehicle sheet metal (3) above the LHS bumper spacer bracket as shown.



**Note: Ensure the ECU connector orientation is facing downwards.**

13. Route the trailer harness (1) along the rear luggage compartment towards the RHS vehicle tail light.



Issue Date 26-04-13

Page 4

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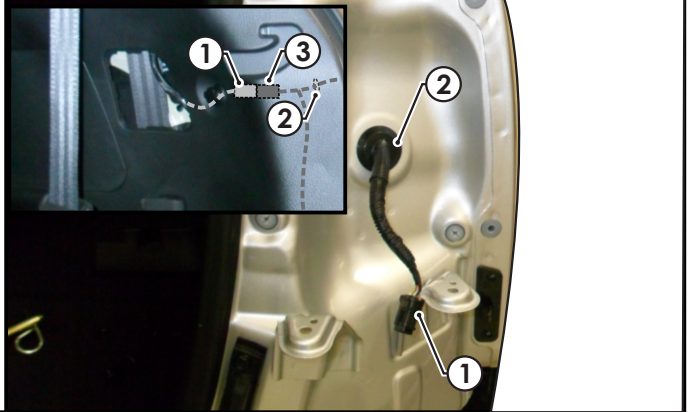
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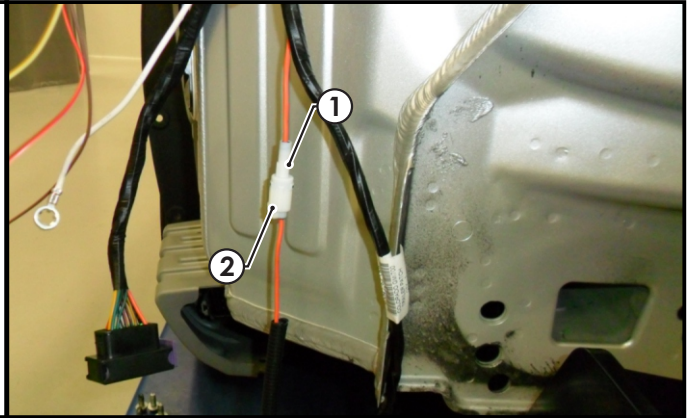
14. Inside the luggage compartment, pull the RHS tail light harness connector (1) and grommet inside the vehicle through the grommet hole (2). Connect the trailer patch (100873-WL) connector (3) to the tail light harness connector.

15. Feed the trailer patch (100873-WL) connector and grommet out through the grommet hole (2).

**Note: Ensure when connecting the trailer patch the grommet makes a good seal.**



16. On the LHS, connect the 'ORANGE' power wire 1-way connector (1) to its mating 1-way connector (2).



17. Route the 'ORANGE' power wire (1), along the vehicle chassis rail towards the front of the vehicle and up towards the engine bay.



Issue Date 26-04-13

Page 5

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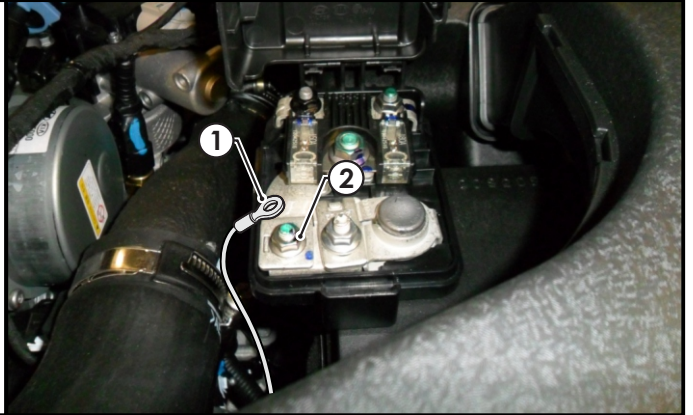


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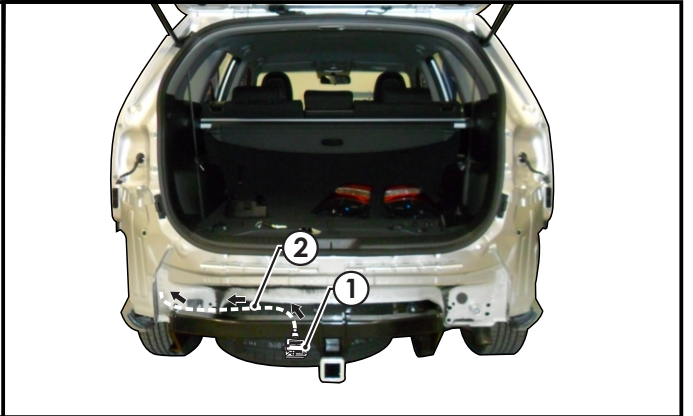
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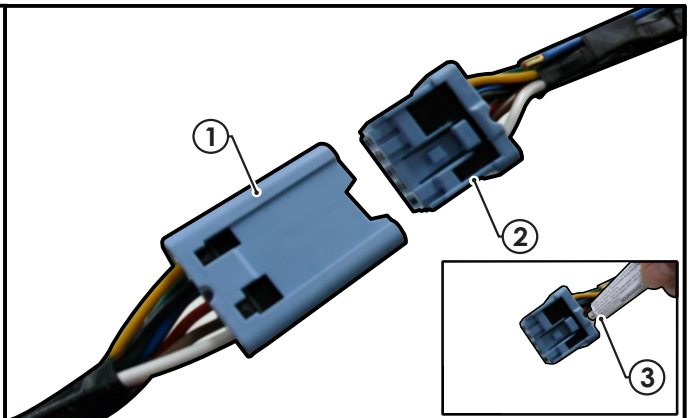
18. In the engine bay, secure the 'ORANGE' power wire ring terminal (1) to the vehicle's positive battery terminal (2).



19. Mount the trailer socket (1) to the tow bar mounting bracket using M4 fasteners (not supplied).
20. Route the tail harness (2) across the tow bar towards the LHS of the vehicle.



21. Connect the tail harness (tail length 400mm) 8-way connector (1) to the trailer patch mating 8-way connector (2).
22. Waterproof the connectors by applying electrical grease or silicone (3) to the back of each connector.



Issue Date 26-04-13

Page 6

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- |   |  |
|---|--|
| <p>23. Test the trailer patch function using a light board or multi meter.</p> <p>24. Secure all harnesses using cable ties (not supplied).</p> <p>25. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.</p> <p>26. Place the fitting instructions in the glove box after fitment.</p> |  |
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Issue Date 26-04-13

Page 7

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