

HAYMAN REESE
PART No: 02990RW
NISSAN PATROL Y62 01/2013 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 **100** Mins

Towbar Installation Instructions

Towbar capacity

NISSAN PATROL Y62 01/2013 ON

Part Number 02990RW

Max Towing Braked

3500 kg

Max Static Ball Load

350 kg

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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.

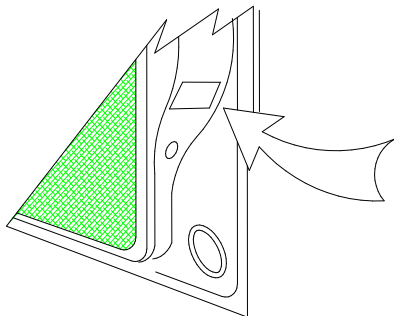
Tow bar Maintenance and Care.

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.

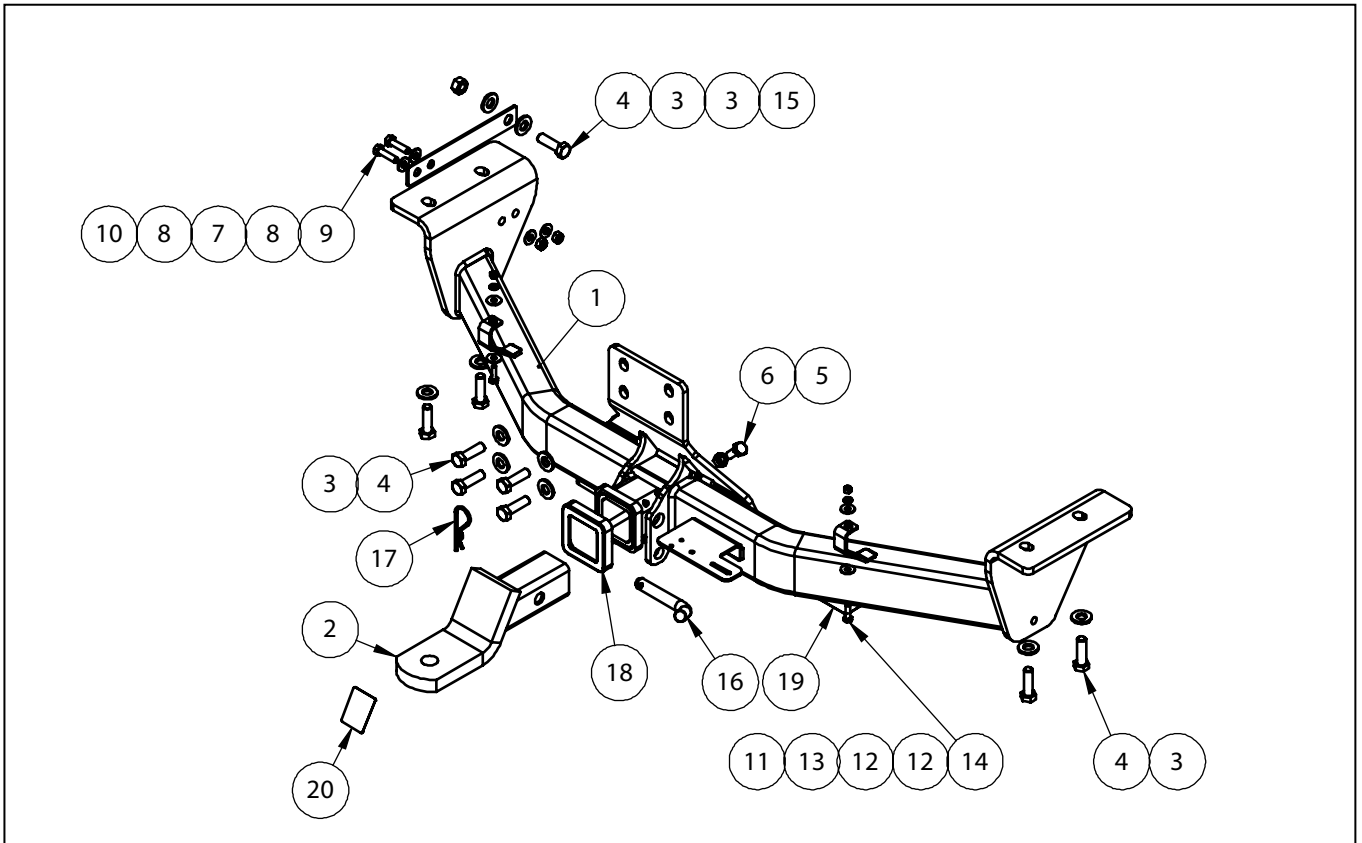
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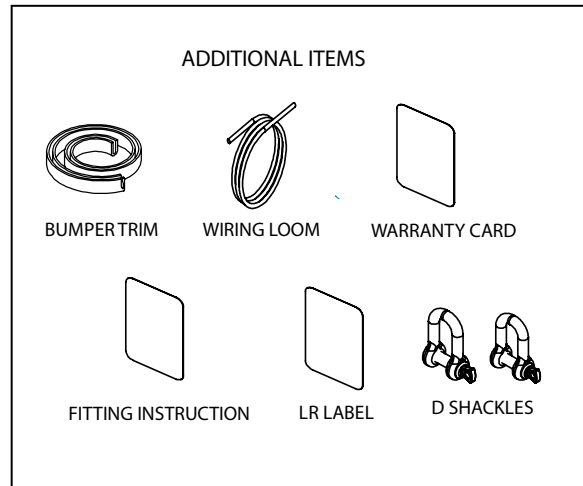
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QTY	DESCRIPTION	ITEM NO
1	WELDED ASSY	1
1	CLASS 4 TBM	2
10	WASHER FLAT 1/2"x1 1/8"x1/8	3
9	BOLT M12-1.25x40mm	4
1	HEX NUT M10x1.5	5
1	BOLT M10-1.50x25	6
1	SUPPORT BRACKET	7
4	WSHR FT M8x19.5x1.60 Z/P	8
2	M8-1.25x30mm BOLT	9
2	M8-1.25 NUT	10
2	HEX NUT M6x1.0	11
4	1-4x3-4x16g BRT FT WASHER	12
2	M6 SPRING WASHER	13
2	BOLT M6x20	14
1	M12x1.25 HEX NUT PC8	15
1	PULL PIN	16
1	SPRING COTTER PIN ASSY	17
1	HITCH BOX COLLAR COVER	18
1	ACRYLIC CP LABEL	19
1	H.R STICKER	20



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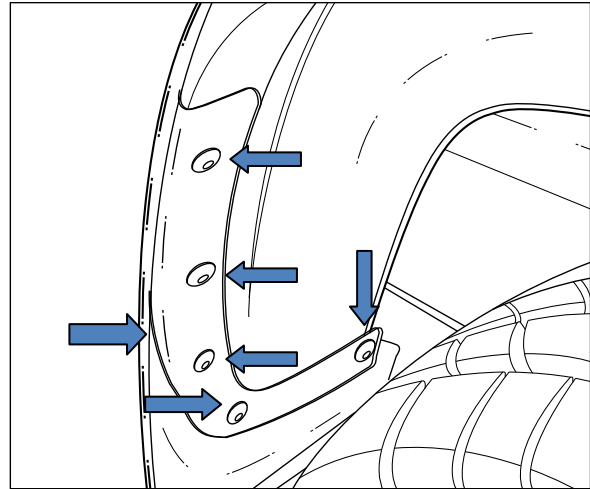
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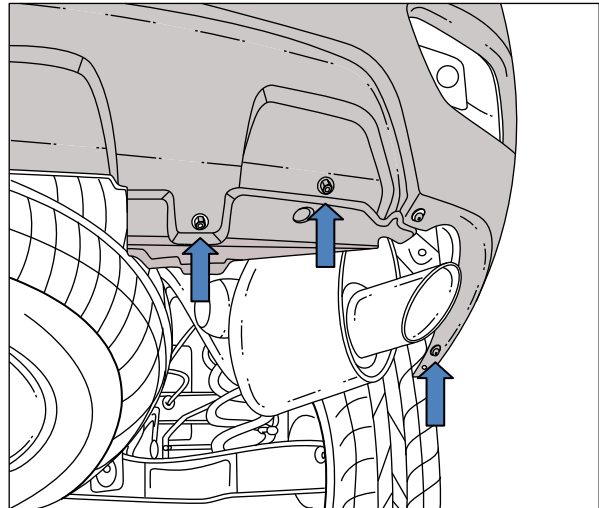
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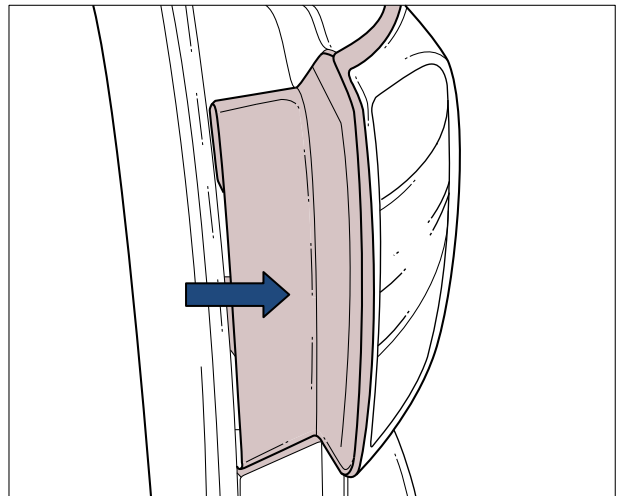
1. Remove 5x Screws from Rear Wheel Mud Flap in the inside of the Wheel Arc for both the LH & RH side. Also remove 1x Screw located behind the Mud Flap on the underside of the Bumper.



2. Remove 4x Bolts from the underside of the Bumper Bar for both the LH&RH side.



3. Open Rear Boot Door and remove Plastic Side Covers from the Rear Lights and remove the 2x Bolts from Rear Light for both the LH & RH side.



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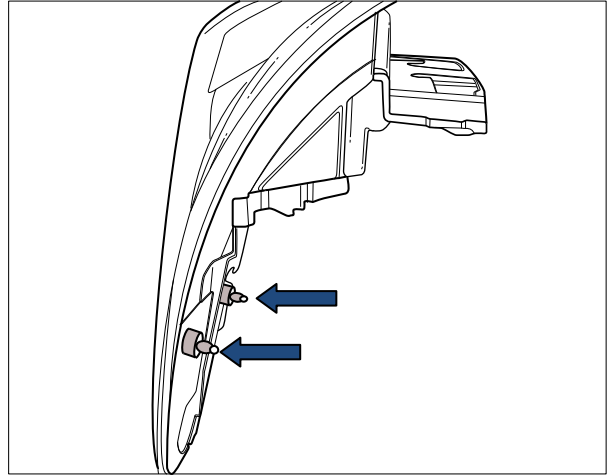
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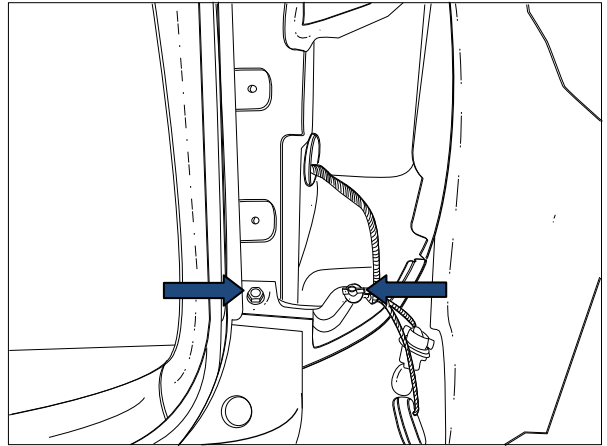
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4. Note the Rear Lights have plastic pins located on their sides, therefore for removal of the Rear Lights, they must be firmly pushed outwards to the side to release from side Clips.



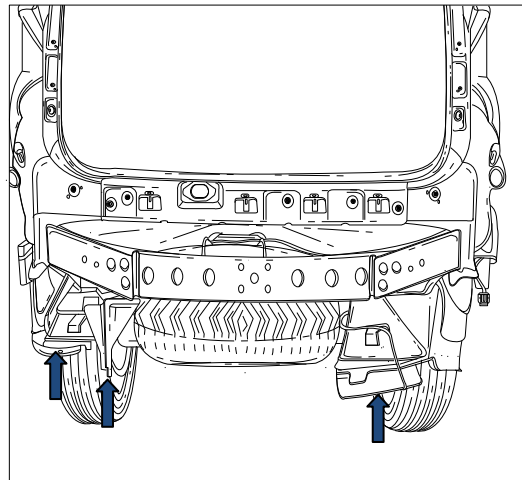
5. Remove 1x Bolt and 1x Scrivet located behind the Rear Lights for both the LH&RH side. Then pull firmly on bar to release from Clips.



6. Remove from both sides all Bumper Tubs and shipping Hook.
Offer Towbar to Vehicle and loosely bolt it in.

Note: Moving the Spare Tire as far forward as possible may be need.

7. Tighten all Bolts to Torque Specifications provided.



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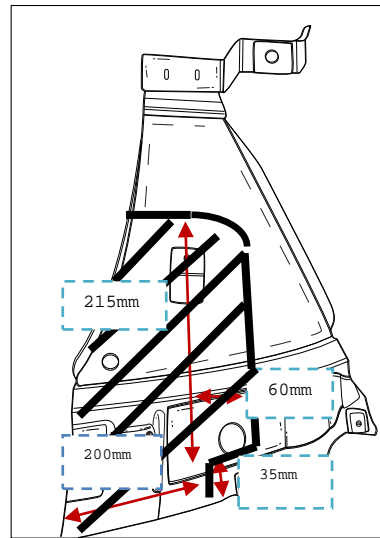
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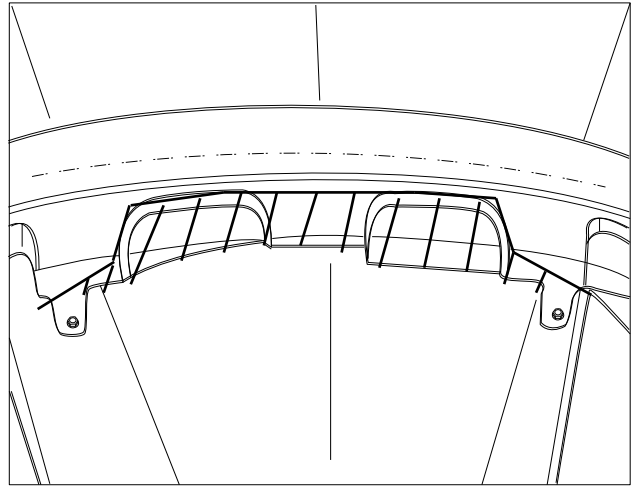
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8. Driver side underside Cover/Bumper Tub Mount is required to be cut as to fit around the Towbar but keeping two of the 3 Bumper Tub Mounting Points as shown .



9. Create a Bumper Cut as shown following the outer contours of the two lower Bumper depressions. Installer discretion to be used in covering the cut with Pinch Weld.



10. Install the replacement passenger underside Cover/Bumper Tub Mount Bracket and attach underside cover to it.

11. Reassemble Vehicle in reverse order to disassembly.

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Wiring Loom Installation Instructions

NISSAN PATROL MY13

Part No: 200912-WL
ECU Required: 04835

Tail Harness Length Required: 1200mm

Wiring Loom Installation Time: Approx. 45 minutes

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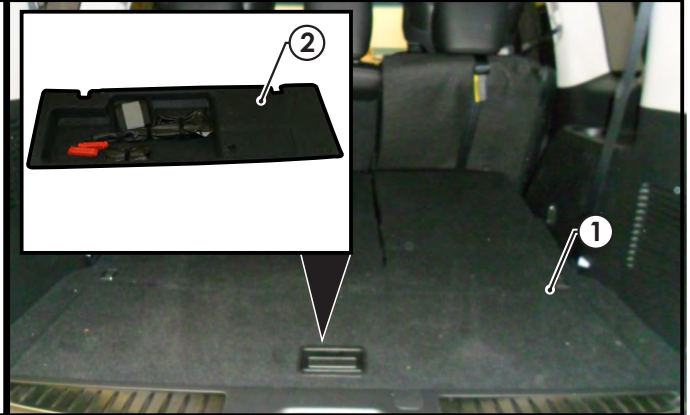


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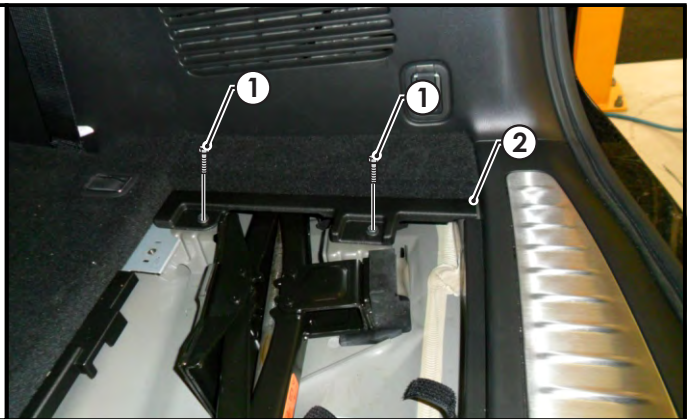
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1. In the luggage compartment, remove the floor carpet cover (1).
2. Remove the tool tray (2).

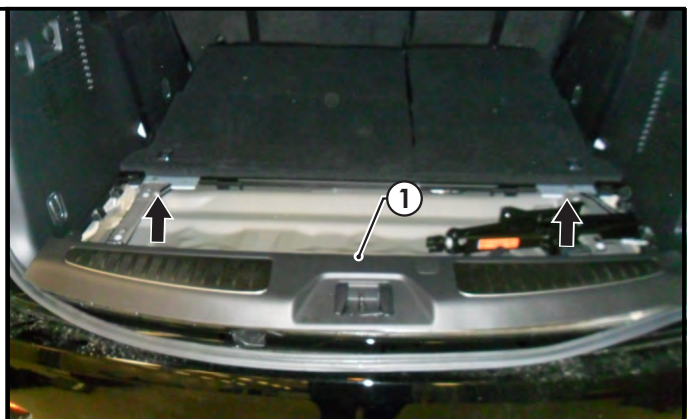


3. Remove the two bolts (1) on the RHS tool tray trim (2).
4. Remove the tool tray plastic trim (2).

Repeat for the LHS.



5. Remove the rear luggage compartment trim (1), by pulling in an upwards direction.



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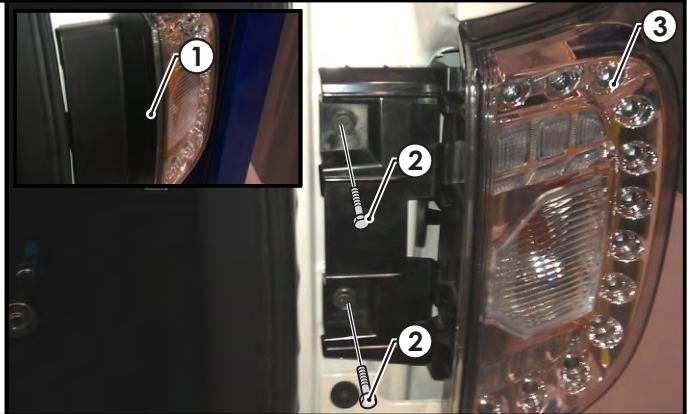
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6. On the LHS tail light, remove the tail light trim (1).
7. Remove the two bolts (2).
8. Remove the LHS tail light (3).

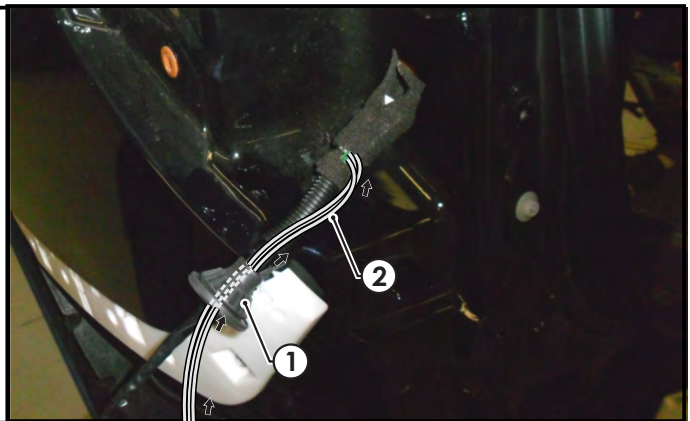
Repeat for the RHS.



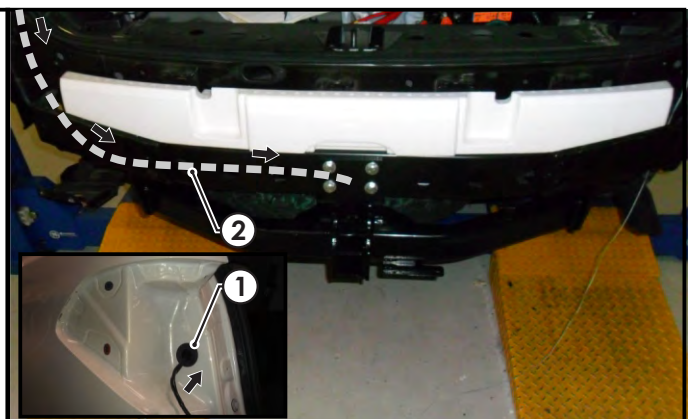
9. On the LHS of the vehicle, behind the previously removed tail light assembly, dislodge the existing vehicle grommet (1).
10. Feed the trailer patch wires (2), through the vehicle grommet (1) as shown.
11. Following the table below, solder the corresponding

Function	Trailer Patch	Vehicle Connector
L.IND	YELLOW / BLACK	GREEN
TAIL	BROWN / BLACK	BLUE / WHITE
BRAKE	RED / BLACK	RED

Note: Ensure to secure each individual solder with tape.



12. Secure the grommet (1) back into the grommet cavity.
13. Route the trailer patch (2) across the rear towards the centre of the vehicle.



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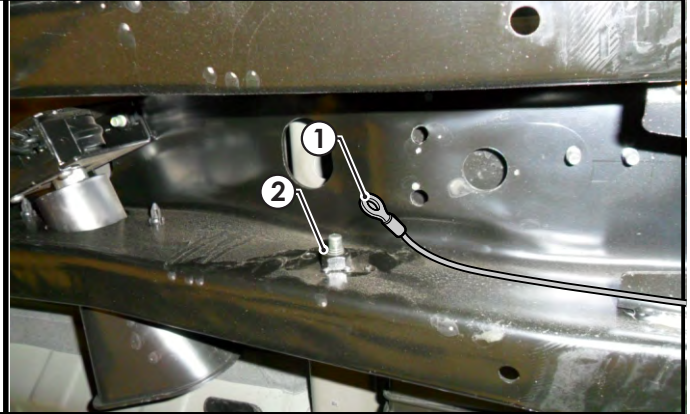
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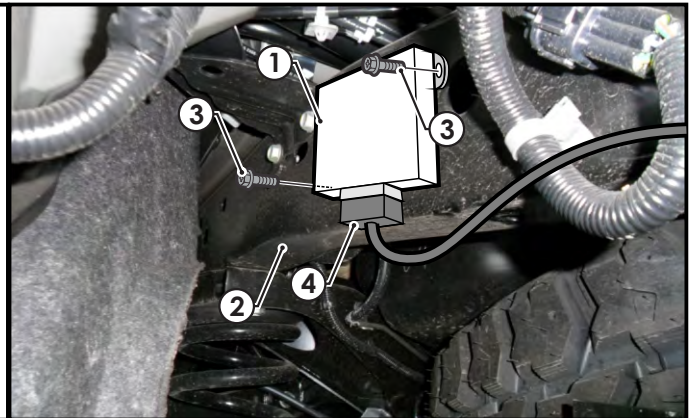
14. Underneath the vehicle on the chassis rail, connect the trailer patch ground ring terminal (1) to the vehicle grounding point (2).

Note: If the vehicle grounding point is unavailable, use a tek screw to secure the ground ring terminal to the vehicle chassis in a suitable location.

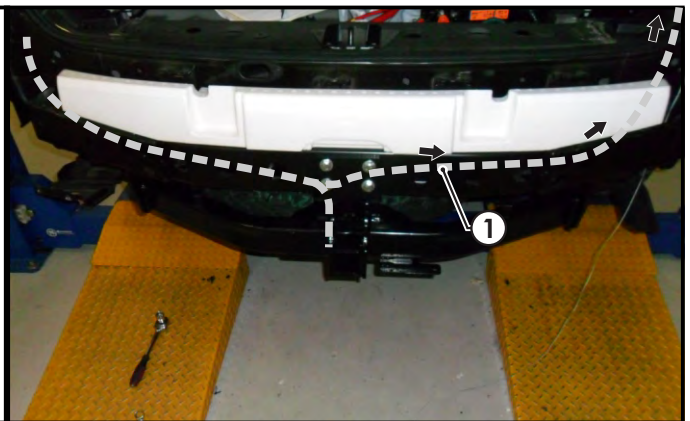


15. Secure the waterproof ECU (1) (04835) to the chassis rail (2) in the location shown, using tek screws (3).

16. Connect the trailer patch 24-way connector (4) to the ECU (1).



17. Route the trailer patch towards the RHS tail light.



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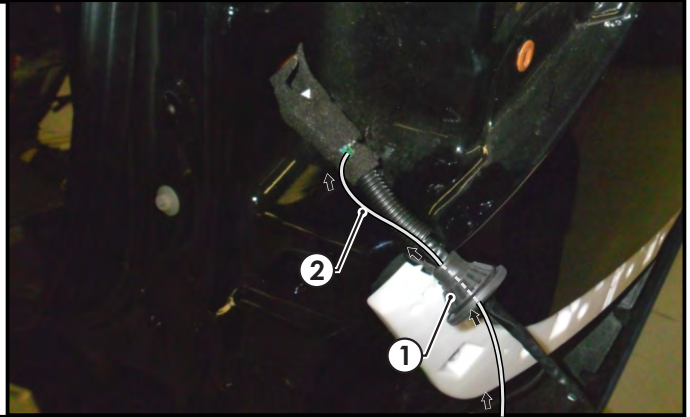
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18. On the RHS of the vehicle, behind the previously removed tail light assembly, dislodge the existing vehicle grommet (1).
19. Feed the trailer patch wire (2), through the vehicle grommet (1) as shown.
20. Following the table below, solder the 'GREEN / BLACK' wire to the existing vehicle 'GREEN' wire.

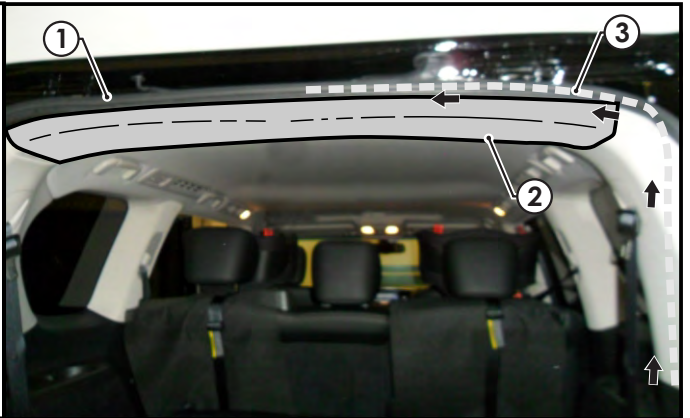
Function	Trailer Patch	Vehicle Connector
R.IND	GREEN / BLACK	GREEN

21. Secure the vehicle grommet (1) back into the grommet cavity.

Note: Ensure to secure each individual solder with tape.



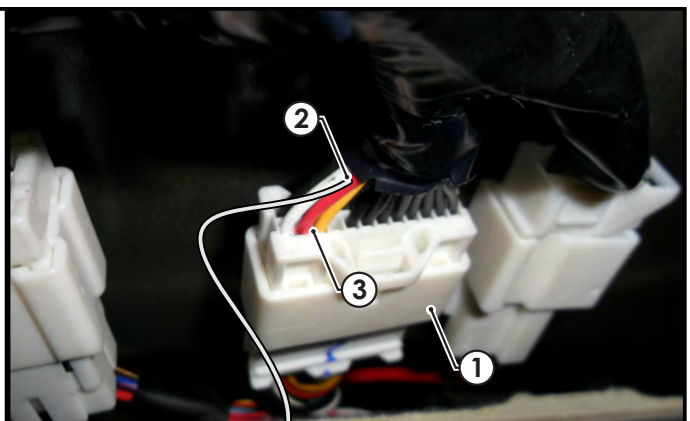
22. Dislodge the luggage compartment rubber seal (1).
23. Remove the vehicle roof trim (2).
24. Route the trailer patch reverse wire (3) along the rubber seal (1) towards the centre of the vehicle roof.



25. Inside the vehicle roof, locate the vehicle connector (1).
26. Following the table below, solder the 'BLACK/WHITE' reverse wire (2) to the existing vehicle 'RED' wire (3).

Function	Trailer Patch	Vehicle Connector
REVERSE	BLACK / WHITE	RED

Note: Ensure to secure each individual solder with tape.



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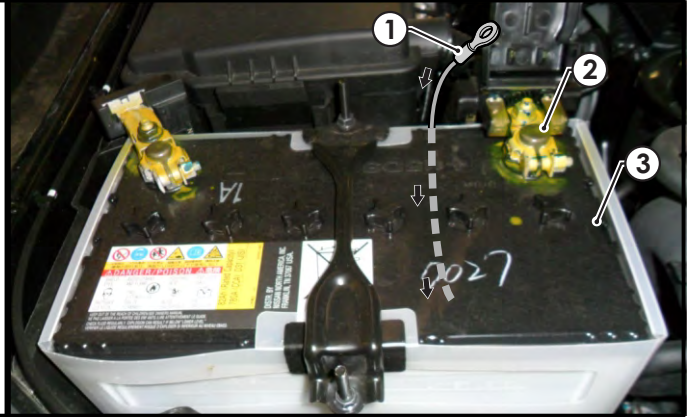
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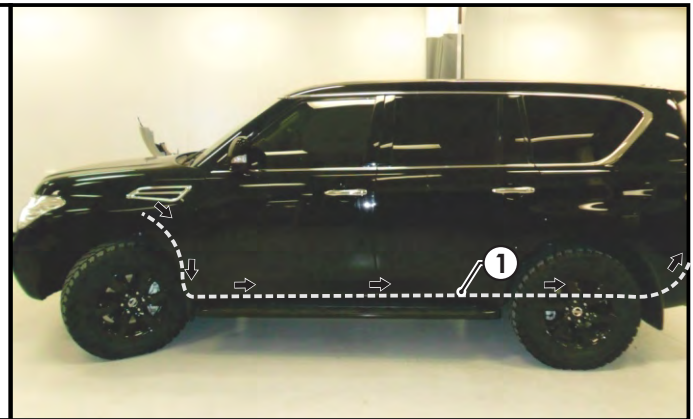
27. Route the power harness (1) from the positive terminal (2) on the vehicle battery (3) towards the rear of the vehicle.

Note: Do not connect the power harness ring terminal to the battery at this stage.

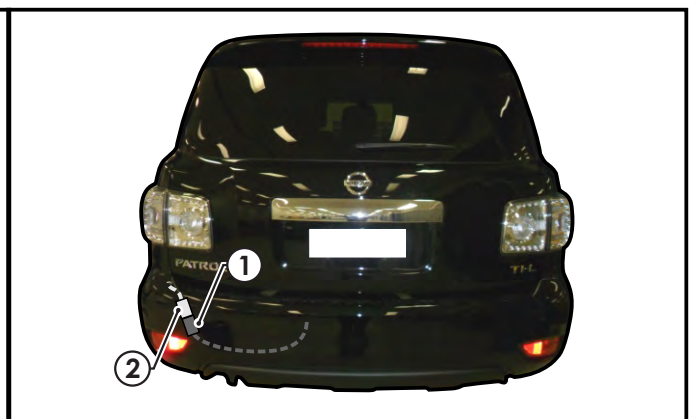


28. Route the power harness (1) underneath the engine bay and along the chassis rail towards the rear of the vehicle.

Note: Ensure when routing to avoid any moving parts, sources of heat or sharp edges.



29. On the rear of the vehicle, connect the 1-way male power harness connector (1) to its mating vehicle connector (2).



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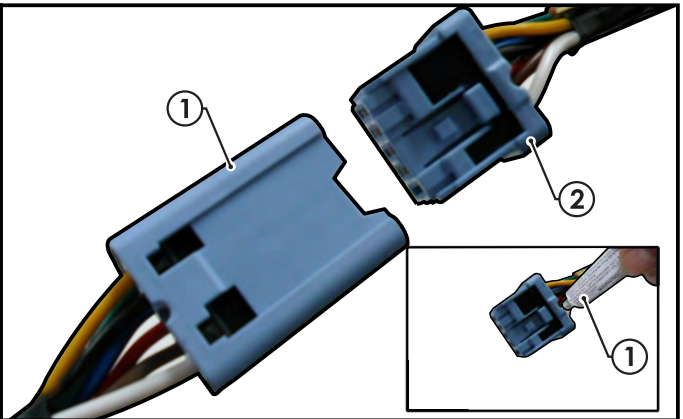
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30. Mount the trailer socket (1) to the tow bar mounting bracket using M4 fasteners (not supplied).
31. Route the tail harness (tail length 1200mm) (2) towards the trailer patch tail connector.



32. Connect the tail harness 8-way connector (1) to the trailer patch 8-way mating connector (2).
33. Waterproof the trailer patch 8-way connector (1) and the tail harness 8-way male connector (2) using silicone or grease (3).



34. Connect the power harness positive terminal to the battery.
35. Test the trailer wiring harness function using a light board or multi meter.
36. Secure all harnesses using cable ties (not supplied).
37. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
38. Place the fitting instructions in the glove box after fitment.

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