

**HAYMAN REESE**  
**PART No: 03179RW**  
**LEXUS RX450h GYL25R**

**INSTALLATION INSTRUCTIONS**

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



**Total Installation Time (Towbar and Wiring): Approx 75 Mins**

**Towbar Installation Instructions**

**Towbar capacity**

**LEXUS RX450h GYL25R**

**Part Number 03179RW**

**ECU Part No. 04826**

**Max Towing Braked 1500 kg**

**Max Towing Unbraked 750 kg**

**Max Static Ball Load 150 kg**

**Tail Harness Length Required: 1200 mm**

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PO Box 4050, Dandenong South VIC 3164  
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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.

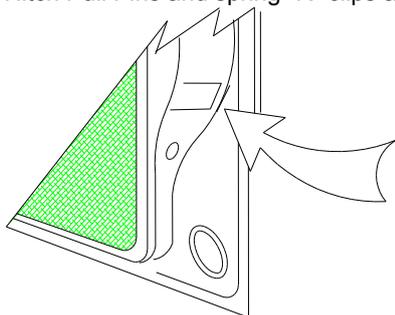
## Tow bar Maintenance and Care.

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 and  
ECU warning 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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### **Maximum Trailer Electrical Load**

This vehicle has a limited amount of current available for powering trailer lighting circuits. If the vehicle circuits are overloaded by the trailer lighting circuits, vehicle fuses can fail and potential damage to wiring can occur. While most trailers have a small number of lamps on them, some larger trailers (especially 2 axle trailers and caravans) have a large number of lighting circuits.

The ECU for the Lexus RX Series allows for any large trailer to be towed without concern about drawing too much power from the vehicle circuits. Refer to the tables below to see the maximum lighting loads with and without the ECU and power harness options:

### **Recommended Maximum Trailer Electrical Load without ECU**

*Typically LED trailer tail lights*

<b>Light Signal Name</b>	<b>Load (Watts) Total</b>	<b>Current Load (Amps Total (at 12V)</b>
Left Turn	21W	1.75A
Right Turn	21W	1.75A
Tail Lamps	10W	0.83A
Reverse Lamps	42W	3.5A
Stop Lamps	42W	3.5A

### **Recommended Maximum Trailer Electrical Load with ECU**

*Typically Incandescent trailer tail lights*

<b>Light Signal Name</b>	<b>Load (Watts) Total</b>	<b>Current Load (Amps Total (at 12V)</b>
Left Turn	96W	8A
Right Turn	96W	8A
Tail Lamps	132W	11A
Reverse Lamps	96W	8A

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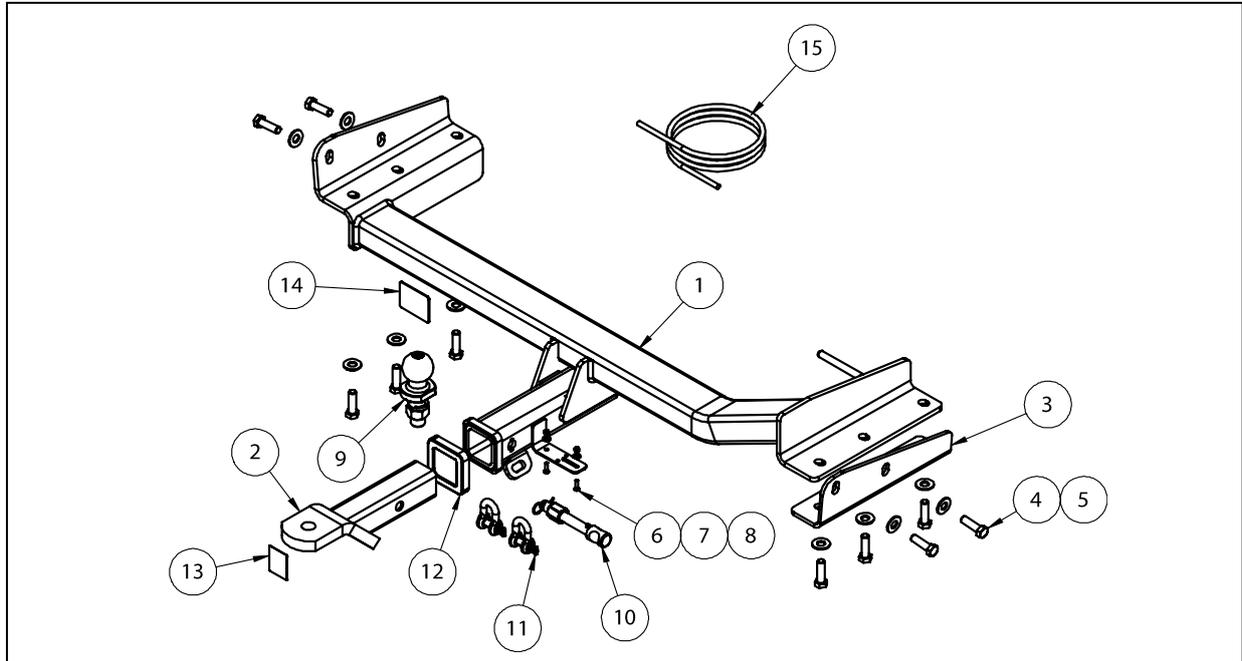
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ITEM NO.	DESCRIPTION	QTY.
1	LEXUS RX WELDED ASSEMBLY	1
2	T.B MOUNT ASSY	1
3	SIDEARM DRIVER	1
4	BOLT M12-1.25x40mm GR8.8 Z/P	10
5	WASHER FLAT M12	10
6	SCREW PAN XR MTS M4-0.7 x16z/P	2
7	3/16 x1/2 F/WASHER ZP	2
8	NUT NYLOC M4-0.7 Z/P	2
9	HR TOWBALL	1
10	ANTI-RATTLE PULL PIN ASSY GOLD	1
11	10mm "D" SHACKLE	2
12	HITCH BOX COLLAR COVER	1
13	H.R STICKER	1
14	ACRYLIC COMPLIANCE PLATE	1
15	WIRING LOOM	1

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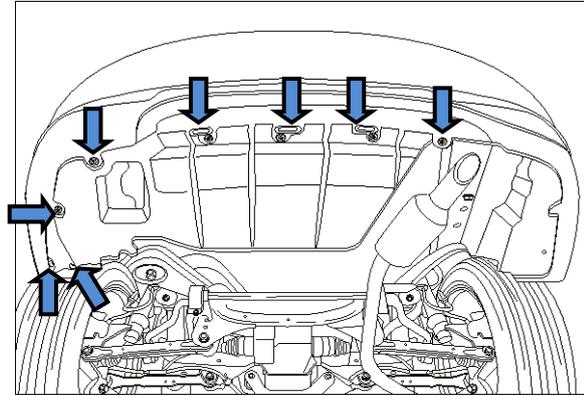
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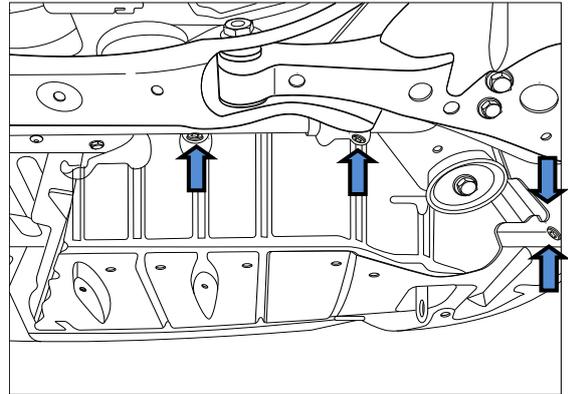
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**NOTE:** Rear bumper is not removed during this towbar fitment

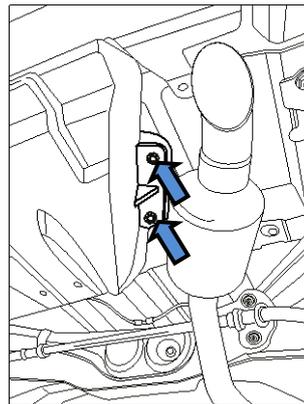
1. Remove 2 x hex head screws and 6 x push rivets from undercover.



2. Remove 3 x hex head screws from forward end of undercover and remove 1 x push rivet from within rear wheel arch.



3. Unfasten 2 x plastic captive nuts from undercover and carefully remove undercover panel.



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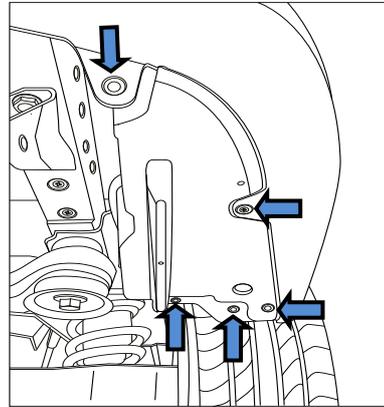


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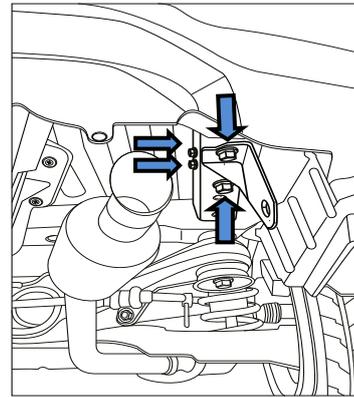
4. Remove 3 x hex head screws and 3 x push rivets (1 from under carpet in rear wheel well, not shown) from right hand side undercover.



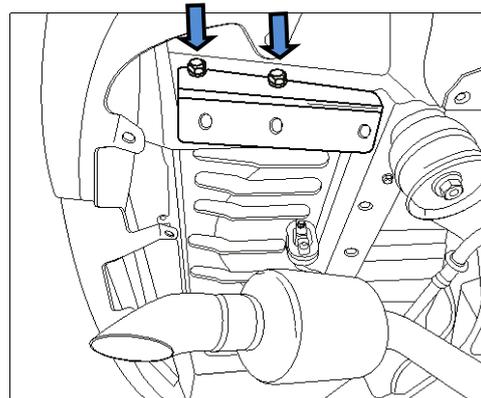
5. Remove 2 x hex head screws securing exhaust mount bracket; remove and discard exhaust mount bracket.

6. Remove 2 x hex head bolts securing factory tow hook to chassis rail; remove and discard factory tow hook.

Repeat step 6 for opposite side of the vehicle.



7. Loosely secure bracket onto right chassis rail using 2 x M12 bolts, complete with 1 x flat washer per bolt.



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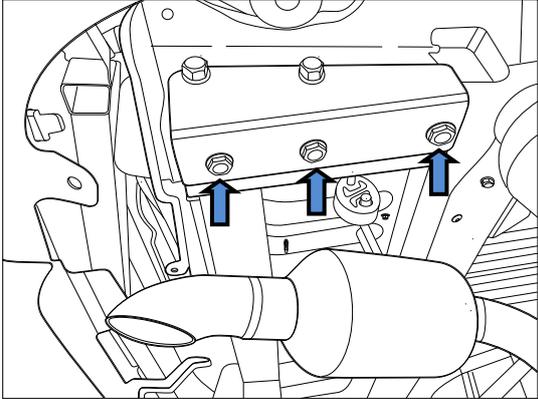
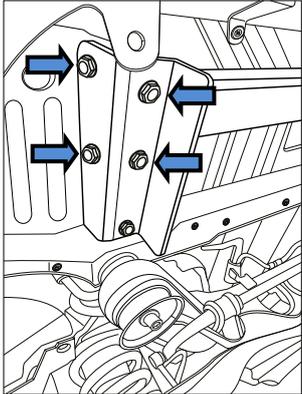
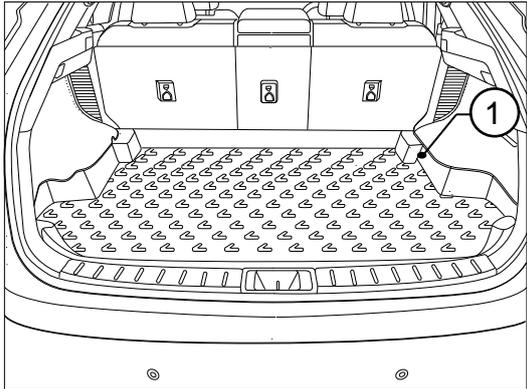
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<p>8. Loosely secure right side of towbar assembly to right chassis rail, with the sidearm of towbar assembly installed between bracket and chassis rail.</p> <p>Use 3 x M12 bolts, complete with 1 x flat washer per bolt.</p>	
<p>9. Loosely secure left side of towbar assembly to left chassis rail, using 5 x M12 bolts, complete with 1 x flat washer per bolt.</p> <p>10. Tighten all M12 fasteners to 89N.m.</p> <p>11. Fit exhaust hanger to exhaust mounting point on towbar.</p>	
<p>12. In the luggage compartment, remove the rubber mat (1).</p>	

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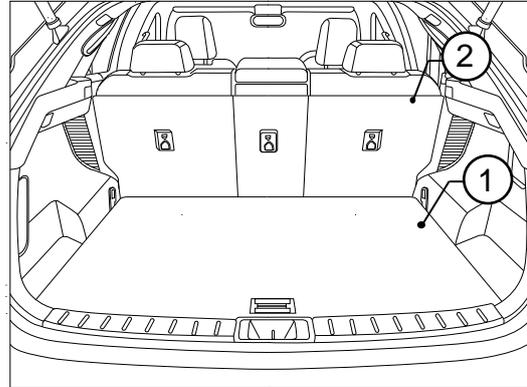


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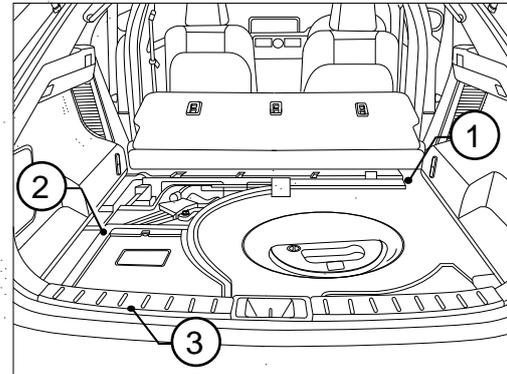
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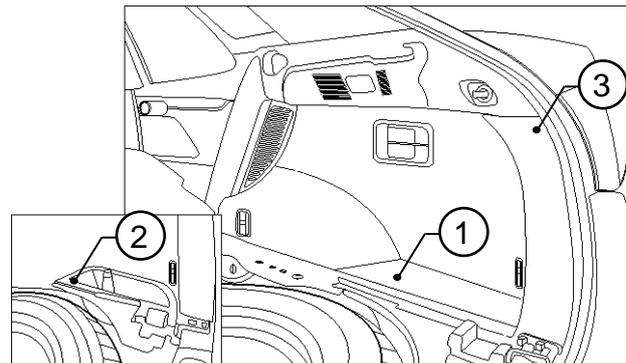
13. Remove the floor carpet (1) and fold down the rear seats (2).



14. Remove the spare wheel cover (1), battery cover (2) and luggage compartment rear trim (3).



15. Remove the RHS rear quarter carpet (1) and the tool tray fasteners and tool tray (2) from underneath.
16. Remove the luggage compartment RHS rear centre trim (3).



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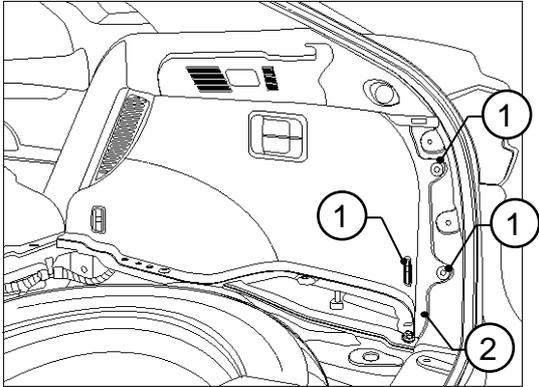
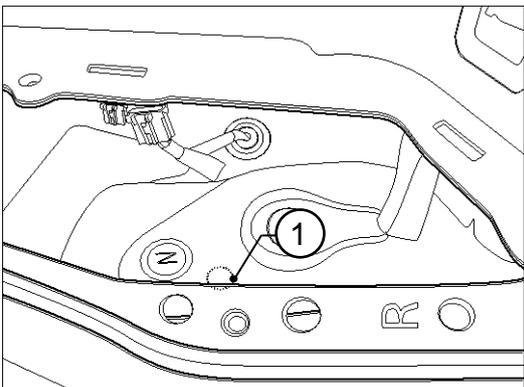
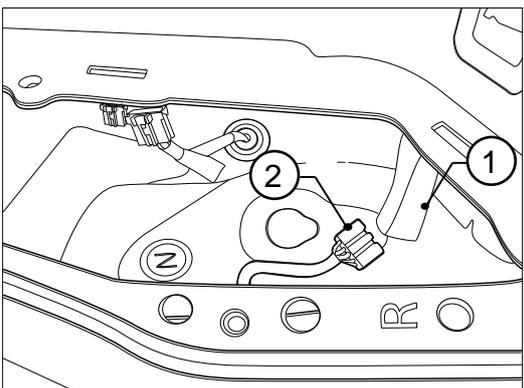
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<p>17. Remove the required fasteners (1) to allow dislodgment of the RHS luggage compartment trim (2).</p>	
<p>18. At the luggage compartment RHS rear quarter sheet metal area, drill out a Ø30mm hole into the vehicle sheet metal floor (1). File down any rough or sharp edges and apply rust inhibitor (not supplied) after drilling.</p>	
<p>19. Locate the RHS rear quarter vehicle breakout connector (1) and connect the trailer patch (P/No:101499-WL) mating connector (2).</p>	

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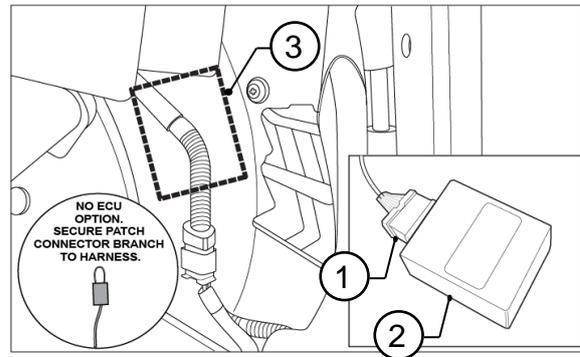
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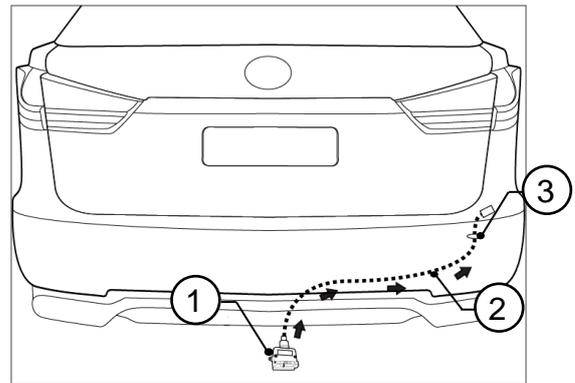
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If an ECU is required, remove the patch connector and go to Step 20. If it is not required go to Step 21.

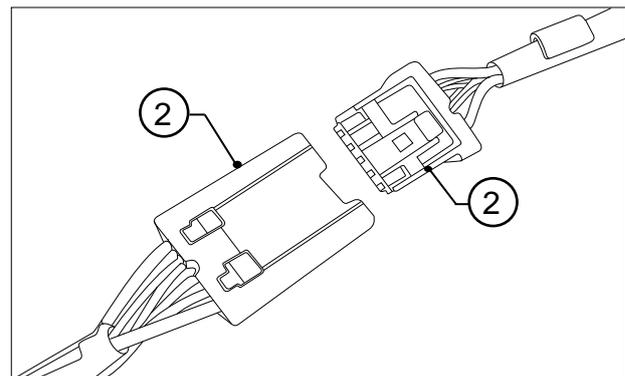
20. Connect the trailer patch connector (1) to the ECU (04826) (2). Remove the backing from the back of the ECU and mount the ECU (2) onto the wheel arch area (3) near the vent. **Ensure ECU is mounted with the connector pointing downwards.**



21. At the rear exterior of the vehicle, mount the tail harness socket (1) to the towbar mounting bracket using M4 fasteners (not supplied).
22. Route the tail harness (tail length: 1200mm) (2) across the RHS and up into the drilled out hole (3). Adjust the trailer patch harness grommet so that it is seated correctly and cable tie (not supplied) in place. **Keep harness routing clear of all sharp edges, moving parts and places of extreme heat.**



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



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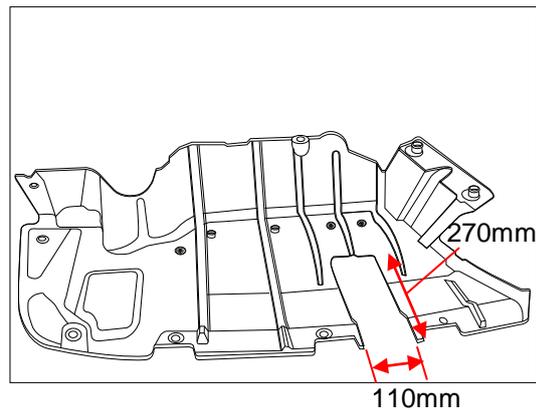
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24. Test the trailer patch function using a light board or multi-meter.
25. Secure all harnesses using cable ties (not supplied).
26. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
27. The Rear Parking Sensors cannot be disabled, doing so will result in an error code being shown.

28. Identify vehicle centreline on undercover.

Beginning from rear most edge, create cut 270mm long x 110mm wide about the identified vehicle centre.



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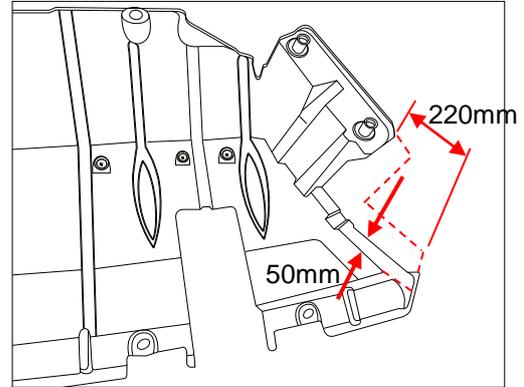
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29. At rear right corner, create cut in undercover  
50mm above lower corner and 220mm long.

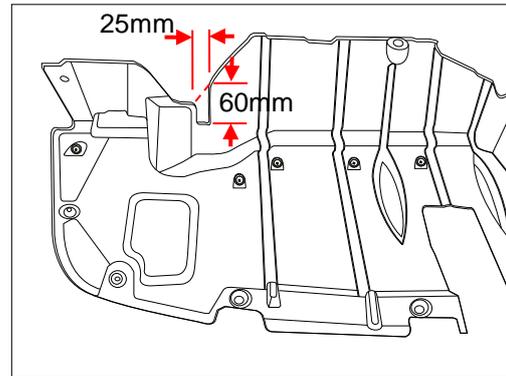
Be careful not to cut through captive plastic nut.



30. At forward edge of undercover, create cut  
starting from middle of rib shown, 60mm long x  
25mm wide toward the centre.

31. Reinstall undercovers in reverse order of steps 1  
to 4.

32. Secure trailer plug to the plug bracket on the  
towbar, using 2 x M4 screws provided, complete  
with 1 x flat washer and 1 x M4 nut per screw.



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