

# INSTALLATION INSTRUCTIONS



R2509W TO SUIT LAND ROVER FREELANDER 2 Oct 2007-ON  
ENSURE INSTRUCTIONS ARE UNDERSTOOD BEFORE INSTALLATION.

Rating Braked 2000 Kg  
Rating Unbraked 750 Kg  
Max Static Ball Load 250 Kg

## 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.

1. **General:** 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.

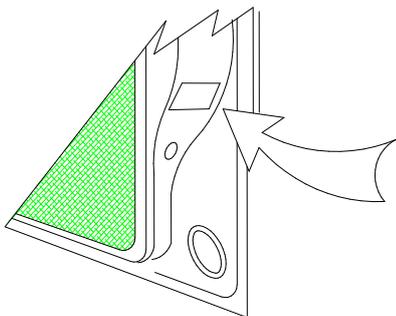
## Tow bar Maintenance and Care.

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

### 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
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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11. Remove bumper bar
  - a. Remove taillight assembly via 2 screws on both sides, refer figure 1.
  - b. Remove 2 screws under the mud guard on both sides.
  - c. Remove 1 torx screws in front of mud guard on both sides then remove mud guards.
  - d. Remove 2 torx screws behind plastic wheel guard on both sides, refer figure 2.
  - e. Remove 2 torx screws on top of the bumper, refer figure 3.
  - f. Remove plastic step to gain access to 5 plastic scrivets to be removed, refer figure 4.
  - g. Remove 4 screws under the bumper bar.
  - h. Disconnect any wiring attached to bumper bar before removing rear bumper.
  - i. Remove plastic guards via 4 screws (to be reused).
  
12. Remove impact beam
  - a. Remove 4 nuts from each side of rear impact beam, refer figure 5.
  - b. Remove M14 set screws attaching towing lug, the screws to be refit to opposite side.
  - c. Remove impact beam.
  
14. Fitment the towbar via
  - a. Position towbar against chassis rails, for driver side place tow bar between towing hook plate and chassis rail.
  - b. For driver side use two M14x110 bolts, spring washer, flat washer provided to secure towing hook plate and tow bar to the vehicle, refer figure 6
  - c. Attach passenger side tow bar using M14 set screw previously from towing lug attachment.
  - d. Torque all bolts to recommend torque refers page1.
  - d. Reinstall plastic guards and impact beam.
  
15. Bumper cut detail
  - a. Establish centre line of bumper bar then mark out as detailed in figure 7
  - b. Cut section of bumper with modified hacksaw or similar device.
  - c. Cut 75mm wide and 85mm high from bottom of the bumper.
  - d. Reinstall the bumper in reverse order in step 11.



Figs 1 remove taillight assembly.



Figs 2 remove torx screws



Figs 3 remove torx screws

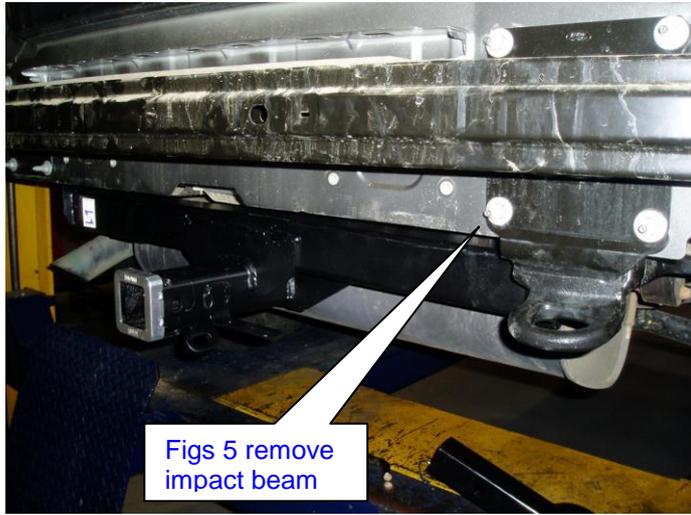
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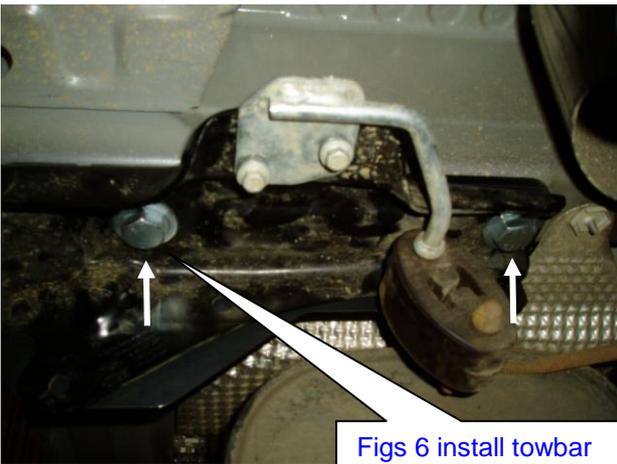
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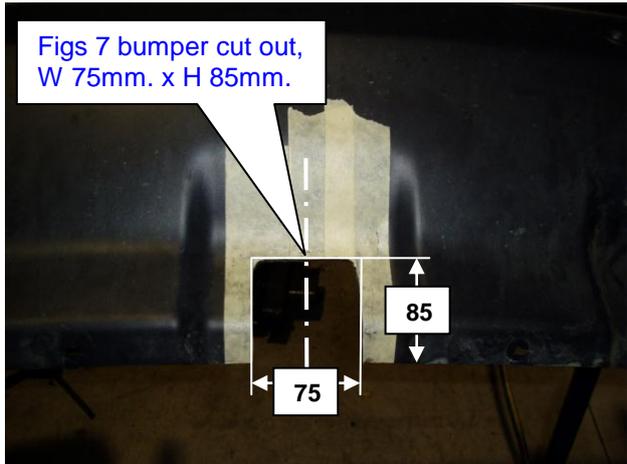
Figs 4 remove 5 plastic scrivenets



Figs 5 remove impact beam



Figs 6 install towbar between towing hook and chassis rail.



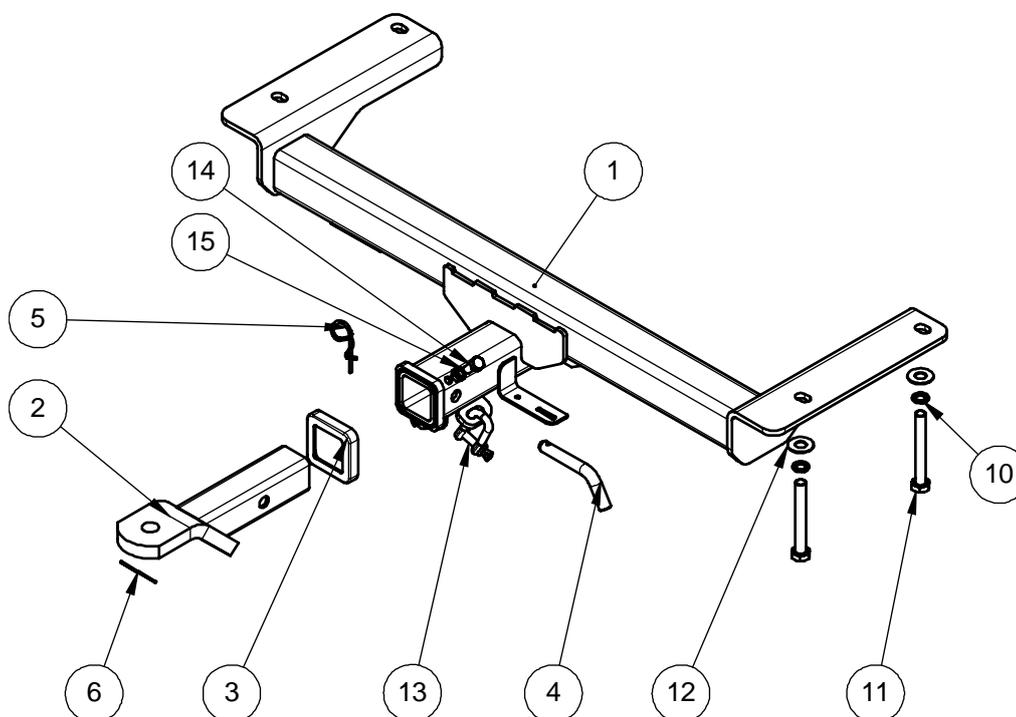
Figs 7 bumper cut out, W 75mm. x H 85mm.



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QTY.	DESCRIPTION	ITEM NO.
1	WELDED ASSEMBLY	1
1	T.B.MOUNT	2
1	HITCH BOX COLLAR COVER	3
1	PULL PIN	4
1	SPRING COTTER PIN	5
1	H.R.STICKER	6
1	FITTING INSTRUCTION	7
1	DOOR RATING STICKER	8
1	HR LIFETIME WARRANTY	9
2	CSM14 SPRING WASHER	10
2	M14 X 110 BOLT STD THREAD	11
2	M14 FLAT WASHER	12
2	'D' SHACKLE	13
1	M10 x 25 1.5P BOLT	14
1	NUT M10 x 1.5P	15

**HAYMAN REESE**  
**PART No: 100078-WL**  
**Land Rover Freelander 2**

**INSTALLATION INSTRUCTIONS**

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

**Wiring Loom Installation Instructions**

**Land Rover – Freelander 2**  
**Part No: 100078-WL**

**Tail Harness Length Required: 1200mm**

**ECU Required Part No: 04826**  
**RPA Override Switch Part No: 04848 (if fitted)**

**Wiring Loom Installation Time: Approx 35 Mins**

Issue Date 14-07-10

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Part No: 100078-WL

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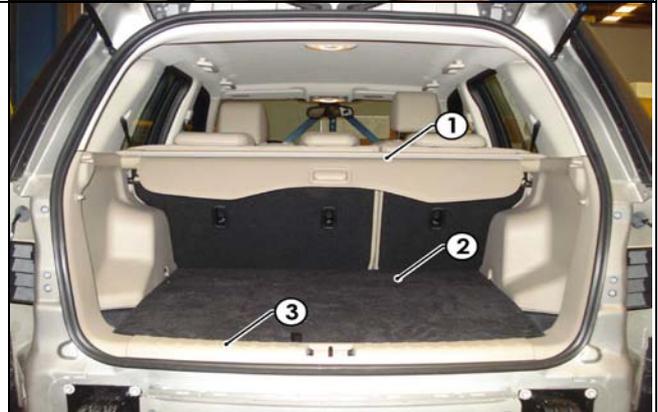
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1. Dislodge the LHS and RHS tail light assemblies (1) by removing the assembly fasteners. Disconnect and remove the tail light assembly (1).
2. On the LHS, push the tail light connector into the vehicle cavity area.
3. Remove the rear bumper fascia by removing all of its fasteners.



4. In the rear luggage compartment area, remove the rear sun shade (1), floor carpet (2) and vehicle rear trim (3).



5. On the rear of the vehicle LHS quarter, remove the LHS tool tray (1).



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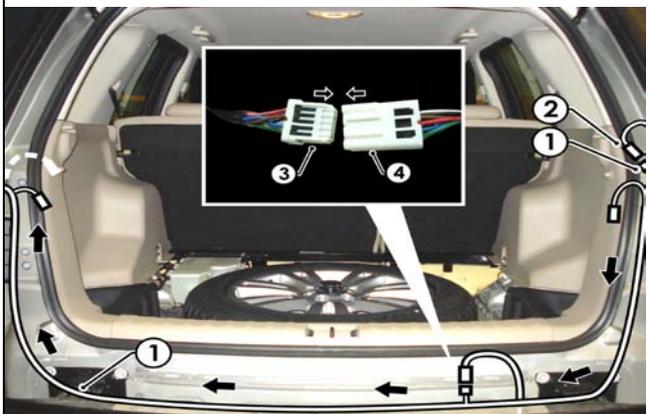
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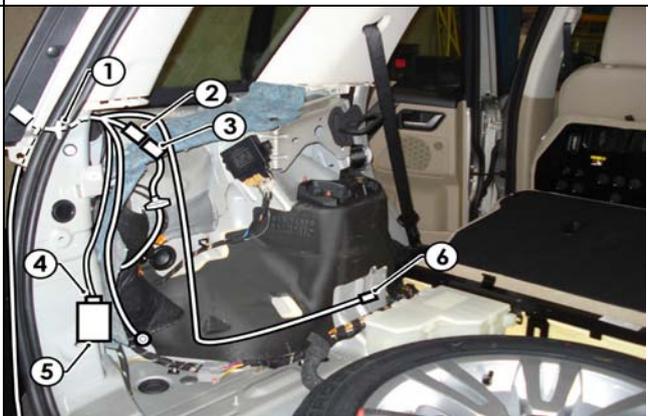
6. Dislodge the LHS luggage compartment trim (1) by removing the fasteners.
7. Disconnect the lamp connector and 12 volt aux connector.
8. Remove the fuse panel lid (2) next to the spare wheel.



9. From outside the rear of the vehicle, connect the trailer patch harness (P/No: 100078-WL) (1) connector to the vehicle harness tail light connector (2) (note that the RHS of the harness only has two connectors).
10. Route the trailer patch harness (1) along the towbar to the LHS and route the rest of the harness through the LHS tail light connector grommet hole and into the vehicle LHS cavity.
11. Secure the tail harness (tail length 1200mm) trailer socket to the towbar mounting bracket using M4 fasteners (not supplied).
12. Connect trailer harness tail connector (3) to tail harness connector (4).



13. Ensure the trailer patch harness grommet (1) is seated correctly into the tail light grommet hole.
14. Inside the vehicle on the LHS, connect the trailer harness connector (2) to the vehicle tail light connector (3).
15. Connect the trailer harness ECU connector (4) to the ECU (5).
16. Route the trailer harness 1-way power connector (6) towards the fuse panel box area.



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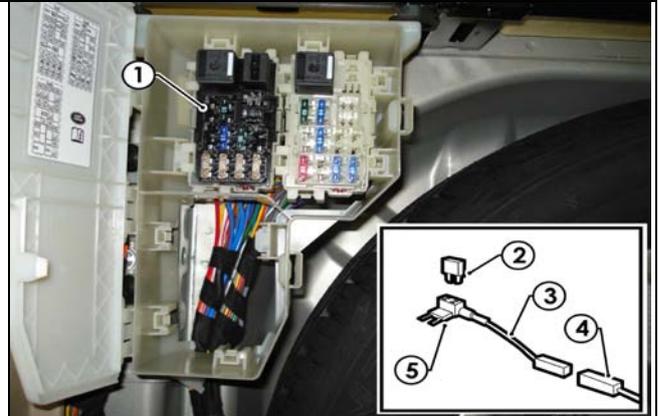
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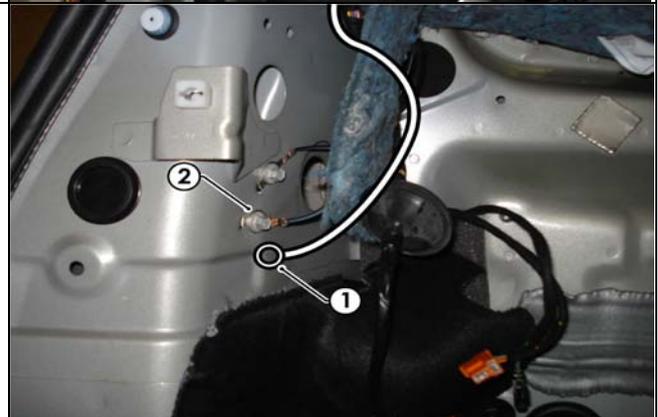
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17. Open the fuse box lid. Insert the supplied 25 amp fuse (2) into the add-a-fuse harness (3).
18. Connect the add-a-fuse harness (3) to the trailer patch harness (4).
19. Insert the other end of the add-a-fuse (5) into the FA9 slot (1).



20. Secure the trailer harness ground ring terminal (1) to the vehicle grounding point (2).



21. Mount the ECU (1) to the LHS rear quarter cavity area behind the black covering.



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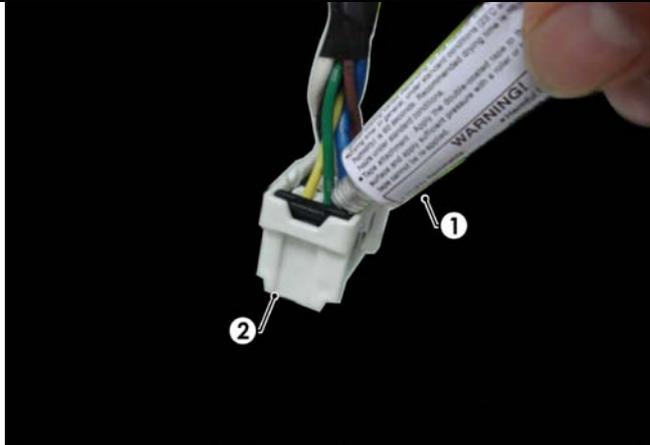


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22. Using electrical grease or silicone (1), water proof the back of the tail harness and trailer patch harness 8-way connectors (2).



23. Refit the rear bumper fascia.  
24. Refit the LHS and RHS tail light assemblies (1) by connecting the tail lights to the trailer patch harness connectors.  
25. Test the Tail Patch Harness function using a Light Board or multimeter.  
26. Secure the Trailer Patch Harness using cables ties (not supplied).  
27. Refit all removed parts and secure all fasteners ensuring there are no squeaks or rattles.  
28. Place instructions in glove box after fitment.



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