

INSTALLATION INSTRUCTIONS



RL2497-TO SUIT KIA UN RONDO APRIL 2008 PRODUCTION ONWARDS
ENSURE INSTRUCTIONS ARE UNDERSTOOD BEFORE INSTALLATION.

Warning:

Rating Unbraked 700Kg

Rating Braked Manual 1500Kg Automatic 1100Kg

Max Static Ball Load Manual 150Kg Automatic 110Kg

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.

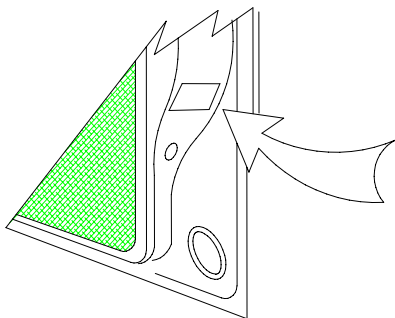
Tow bar Maintenance and Care.

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 rear bumper bar skin via

- Remove x 2 plastic scrivets from the underside of the bumper bar skin see fig 1.
- Remove x 2 plastic scrivets from underside of guard see fig 2.
- Remove mudflaps via removing x 2 self tappers one each side see fig 2.
- Remove x 2 screws inside each wheel arch & one 10mm screw on the inside see figs 3 & 4.

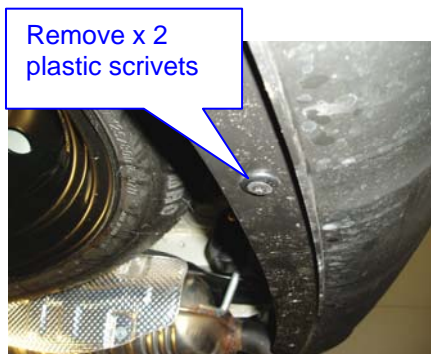


Fig 1



Fig 2



Fig 3



Fig 4



Fig 5



Fig 6

12. Remove rear tail lights via

- Remove x 3 screws from tailgate cavity retaining tail light assemblies see fig 6.
- Pull tail light assemblies rearward towards the back of the car some force may be required to remove.
- Then unplug looms before removing tail light assemblies completely see fig 7.
- Remove x 2 screws from taillight cavity each side of the vehicle see fig 7.
- Remove x 2 plastic scrivets from tail light cavity each side of the vehicle see fig 7.
- Unclip retaining clip from strip attached to the bumper bar skin see fig 8.



Fig 7

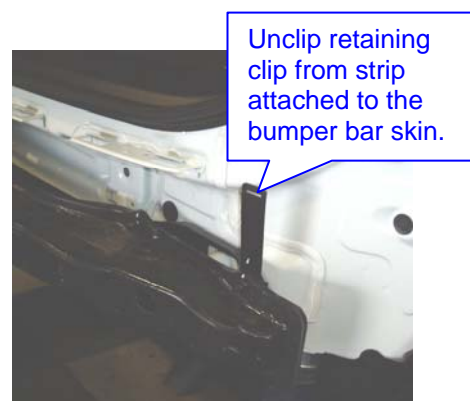


Fig 8

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13. Remove rear impact beam via

- Remove x 3 bolts each side of the vehicle holding the impact beam discard the bolts see fig 9 drivers side shown passenger side is mirror image.
- Remove foam insert on top of impact beam & discard see fig 10.
- Remove the impact beam by pulling rearward some forces may be required then discard impact beam.
- Flex the bumper bar out at the sides then pull rearward some force may be required to remove **Caution** two person lift required.
- Store bumper bar in safe location so not to damage.



Fig 9



Fig 10

14. Lower rear most exhaust & remove heat shield via

- Lower the three rear most exhaust rubber hangers see fig 11 rubber hangers can be sprayed with crc spray to make the rubber hangers more pliable.
- Let the muffler hang down.
- Remove 4x screws from the heat shield see fig 12.



Fig 11

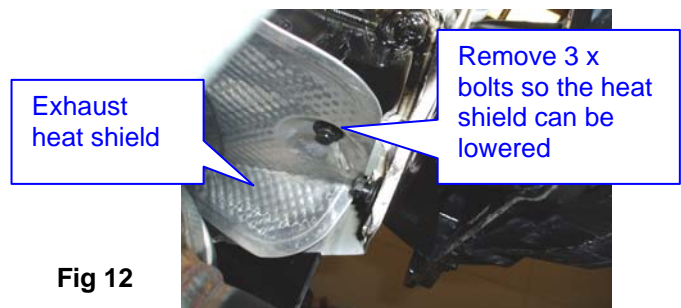
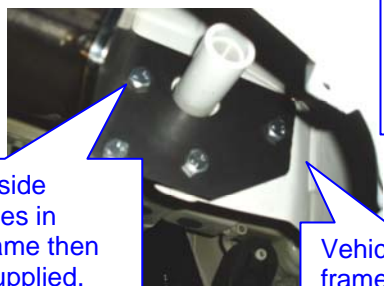


Fig 12

15. Fitment of towbar to the vehicle sub frame via

- Offer the tow bar to the vehicle sub frame so that holes in side plates line up with existing holes in the vehicle see fig 13 then fit hardware loosely see assembly diagram for correct orientation of components.
- Fit loose arms to inside of chassis rails as shown see fig 14 ensure that loose plate & washer are fitted between towbar & loose arm.
- Tighten all hardware to torque listing.

Fig 13



Align holes in side plates with holes in vehicle sub frame then fit hardware supplied.

Vehicle sub frame

Ensure that loose plate is fitted in between towbar & loose arm.

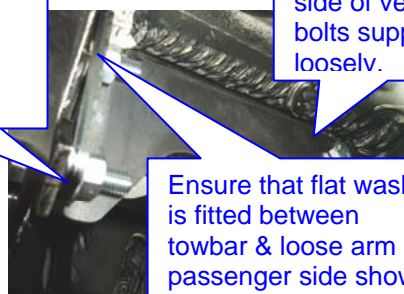


Fig 14

Fit loose arm each side of vehicle with bolts supplied loosely.

Ensure that flat washer is fitted between towbar & loose arm passenger side shown drivers side is fitted as a mirror image.

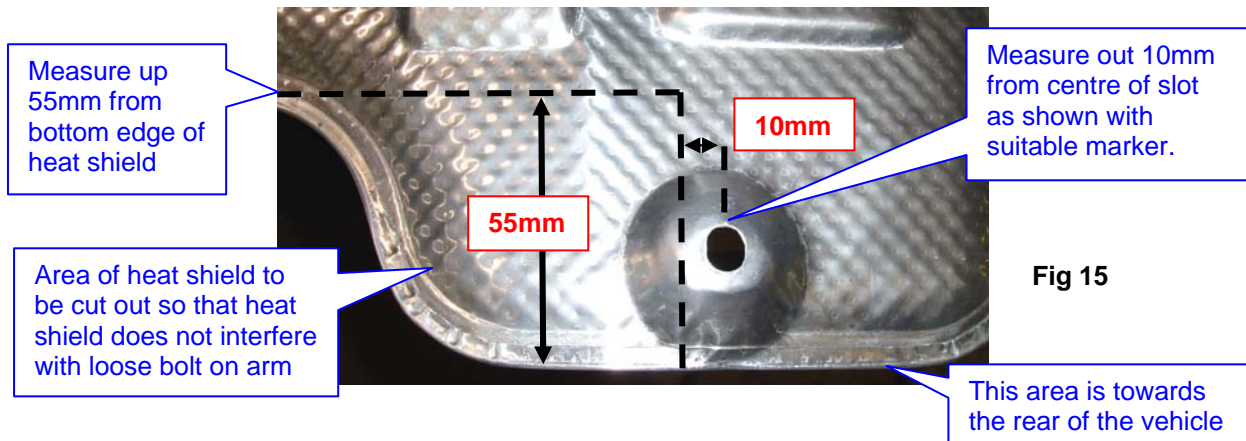
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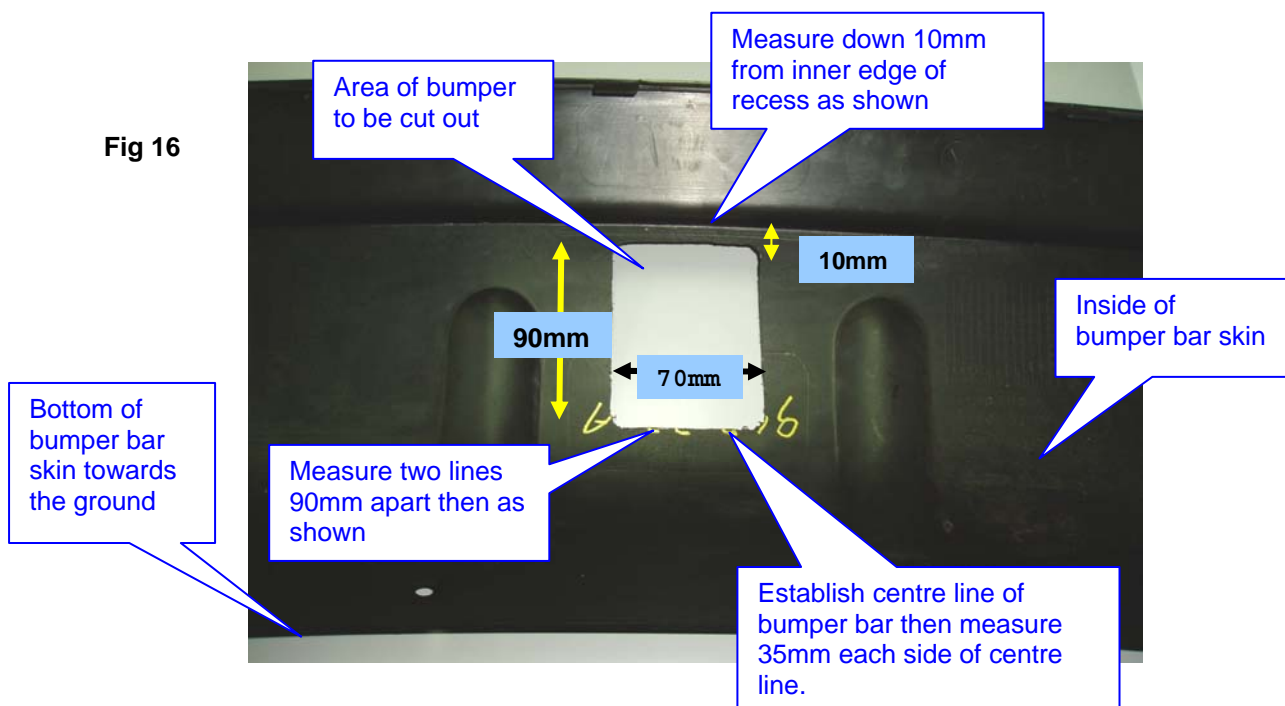
16. Remove a section of heat shield

- Mark out section as shown in fig 15 then cut with suitable tin snips or similar device ensure that all raw edges are clean.



17. Remove a section of rear bumper bar skin

- Place masking tape over section of bumper bar skin that is to be cut out then mark out as shown in fig 16.
- Ensure that the cut is burr free & that all edges are filed clean.



18. Refit the bumper bar, heat shield & muffler

- Refit the bumper bar & heat shield with rear muffler in the reverse of steps 16a through to 11a discard the impact beam & foam support.

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