

HAYMAN REESE
PART No: 02852RW
TOYOTA HILUX 4x4 & 2x4 with REAR STEP

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT



Installation Time: Approx 30 Mins

Towbar Installation Instructions
TOYOTA HILUX 4x4 & 2x4 with REAR STEP

Part Number 02852RW

Towbar Capacity

04 / 2005 – 08 / 2011

Max Towing Braked 2250 kg
Max Static Ball Load 225 kg

09 / 2011 onwards

Max Towing Braked 2500 kg
Max Static Ball Load 250 kg

Hayman Reese (Cequent)
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CAUTION TWO PERSON LIFT REQUIRED TO FIT THIS PRODUCT

Warning:

Do not, drill, cut, weld or otherwise modify the towbar.

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 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.

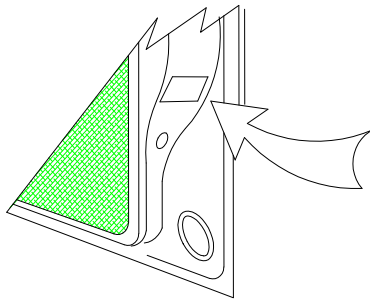
Tow bar Maintenance and Care.

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 (Gr 10.9 = 120 Nm)	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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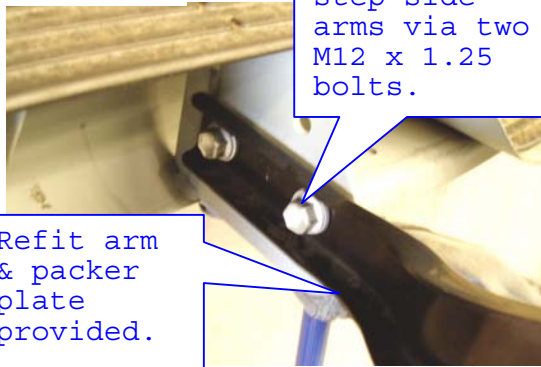


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1. Ensure all hardware items have been included.
2. Remove rear step from vehicle place step on suitable stands to support.
3. Remove side arms that support step as shown in figure 1.
4. Refit arms with 8mm packers provided as shown in fig 2.
5. Offer towbar to chassis rails aligning holes in side plates with captive nuts in chassis rails.
6. Fit 2 M12 x 1.25 bolt to front most forward mount on the side plate loosely.
7. Feed bolts on wire up chassis rails 2 per side then feed through existing holes as shown in figure 3.
8. Refit step sliding step forward to align holes in brackets with holes in side plates of towbar then fasten as shown in fig 4.
9. Fasten all bolts & nuts to torque listing below.
10. Trim excess wire off bolts on wire that have been fed down the chassis rails.
11. **Note tbn 21177 to be in the down position for 4x4 and up position for 4x2 models.**
12. Towbar rating sticker to be conspicuously located on inside rear end of the driver's door.
(See diagram below)

Fig 1



Driver side is shown repeat process for passenger side.

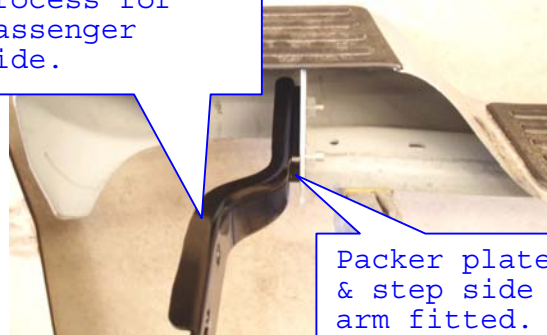


Fig 3

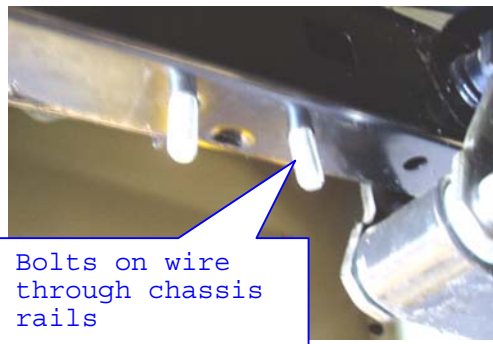
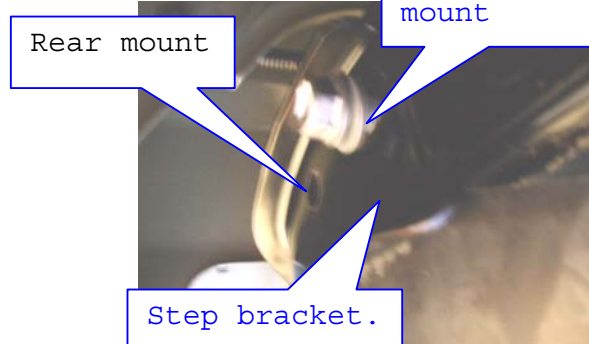
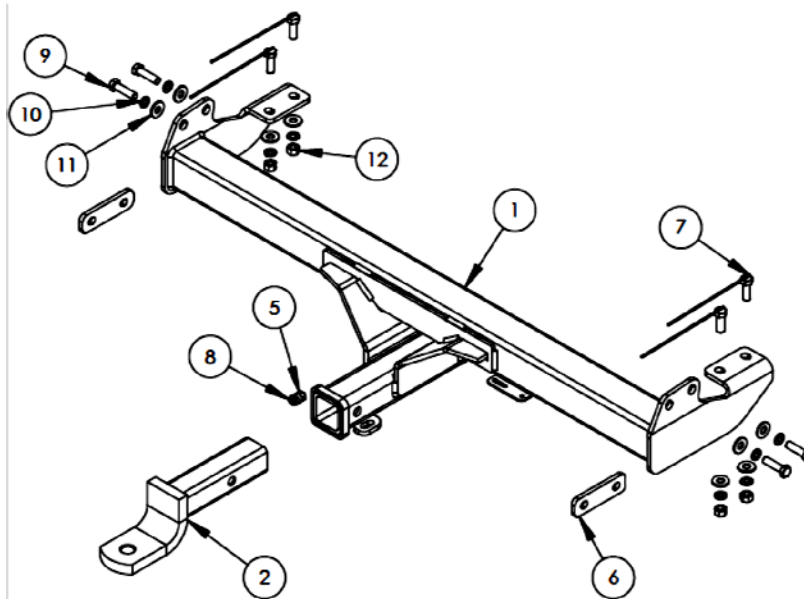


Fig 2
Fig 4

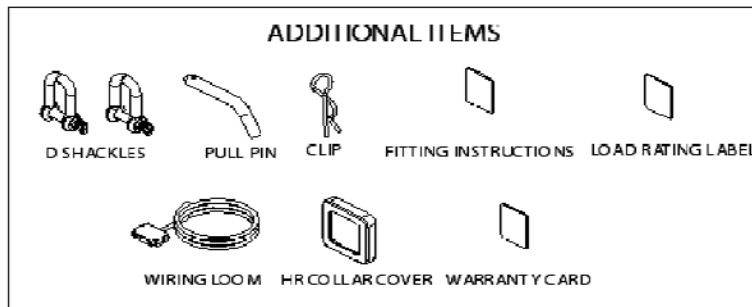


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QTY.	DESCRIPTION	ITEM NO.
1	WELDED ASSEMBLY	1
1	TRAILER BALL MOUNT	2
1	BOLT PACK	3
1	Plastic Sheet Bag	4
1	M10x1.5 HEX NUT PCB	5
2	LOOSE PLATE	6
4	BOLT & WIRE ASSEMBLY	7
1	BOLT M10-1.50 x 25	8
4	SET SCREW M12-1.25x45mm GR 10.9 Z/P	9
8	Wshr spring ft sec M12x4.0x2.5mm z/p	10
8	WASHER M12x28.8x3mm	11
4	M12x1.75 HEX NUT PCB	12



NOTE: Hayman Reese recommends that you check your tow ball to ensure it complies with Australian Design Rules

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Wiring Loom Installation Instructions

TOYOTA HILUX
Part No: 100002-WL

Tail Harness Length Require: 1800mm

Wiring Loom Installation Time: Approx 20 Mins

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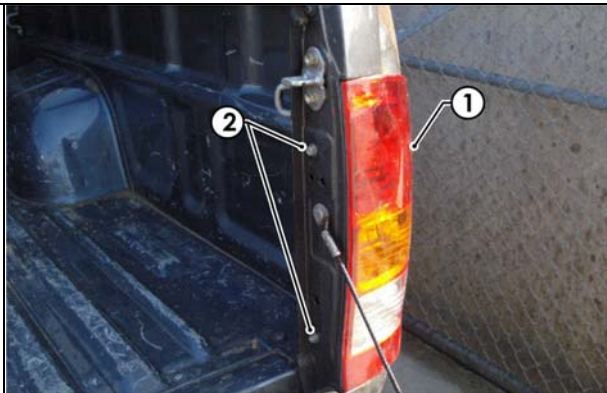
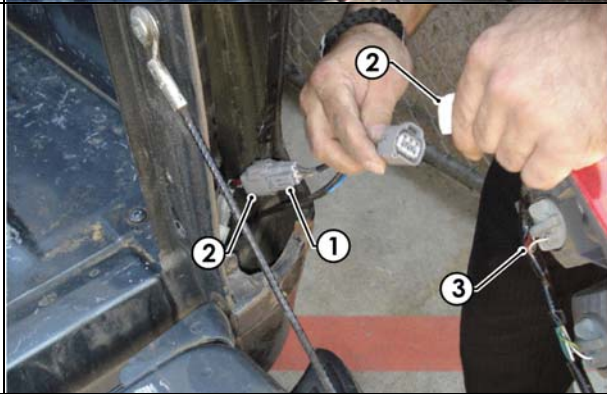
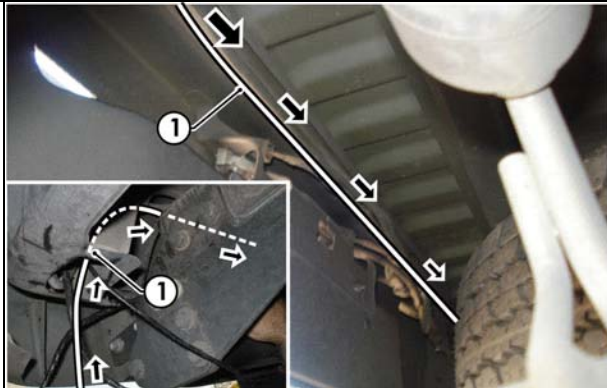
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<p>1. Disconnect and remove the tail light (1) on both sides of the vehicle by removing the two fasteners (2).</p>	
<p>2. From underneath the vehicle, route the Trailer Patch Harness (P/No: 100002-WL) connectors (1) up the RHS tail light cavity.</p> <p>Patch the Trailer Patch Harness RHS connectors (1) in between the tail light connectors (2).</p> <p>Refit the RHS tail light assembly (3).</p>	
<p>3. Underneath the vehicle, route the Trailer Patch Harness (1) over the support bar and along the vehicle harness towards the LHS tail light cavity.</p>	

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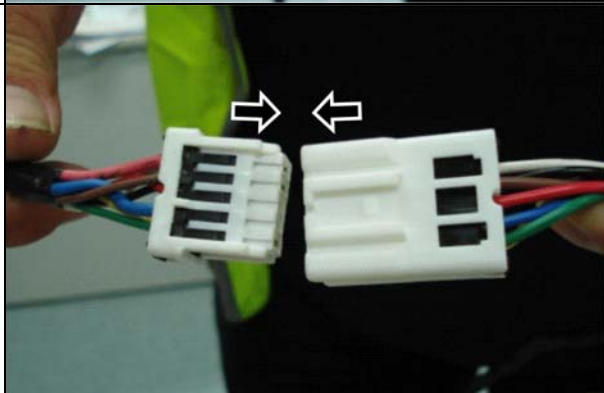
4. Retrieve the Trailer Patch Harness connectors (1).



5. On the Tail Harness (length 1800mm) and mating connector, apply electrical grease or silicon on to the back of the connectors to make them water proof.



6. Connect the Trailer Patch Harness tail connector and the Tail Harness connector together.
7. Reconnect the LHS tail lights and refit the tail light assembly.



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- 8. Mount the Tail Harness socket (1) to the towbar mounting plate using M4 fasteners.
- 9. Test Trailer Harness function using trailer light board or multimeter.
- 10. Refit all removed parts and secure all fasteners ensuring there are no squeaks or rattles.
- 11. Please place the fitting instructions in the glove box after installation.



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