TOWBAR

INSTALLATION INSTRUCTIONS

PART NUMBER 03237RW

TOYOTA LANDCRUISER 79 XBAR



PRODUCT DETAILS:

Part Number:	03237RW	**Maximum Towing Braked:**	3500	kg
ECU Number:	NA	**Maximum Towing Unbraked:**	750	kg
Tail Harness Length Required:	1200 mm	**Maximum Static Ball Load:**	350	kg
TBM/Lug Part Number:	21359			
Wiring Part Number:	101350-WL			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	**Hayman Reese SmartCODE Solution Required:**	NO
Wiring Installation Time:	30 Mins.	**RPA Disable/Other:**	NO
Total Installation Time:	90 Mins.		
Bumper Cut Required:	No		

Note:
High torque requirements needed in installation. Correct requirements must be followed to ensure trouble free installation.

RECOVERY RATING:

CENTRE RECOVERY HOOK

CENTRE RECOVERY POINT LOADING MUST NOT EXCEED 8000kg. DESIGNED FOR USE WITH A SNATCH STRAP NOT EXCEEDING 8000kg MBS (MINIMUM BRAKING STRENGTH).

8000kg



SIDE RECOVERY HOOK (SINGLE)

SIDE RECOVERY POINT LOADING MUST NOT EXCEED 4000kg MBS (MINIMUM BRAKING STRENGTH).

4000kg



ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT.

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BEFORE YOU START:

Hayman Reese recommends that instructions are read completely prior to fitment.
Check all hardware items have been included refer to assembly diagram.
Please ensure this towbar is only fitted to vehicle models as per Hayman Reese application guide

(www.haymanreese.com.au).

CORRECT

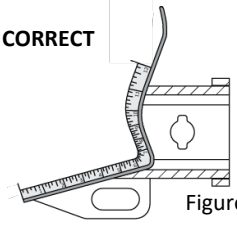


Figure 1

INCORRECT

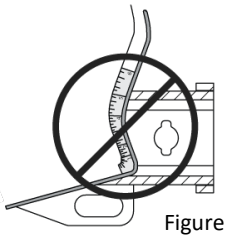


Figure 2

Bumper Cuts

Vehicle and bumper variations can and do occur during vehicle manufacture after initial towbar design. Fitment of towbar to vehicle and accuracy of bumper cut must be assessed prior to any bumper modifications made. Incorrect bumper cuts are not covered under Hayman Reese warranty.

NOTE: Bumper cuts need to be approached with care, refer to notes below.

- Bumper centreline – where the centreline of the bumper needs to be determined, the installer must assess centre point by measurement of bumper width or determining two symmetrical reference points to give centreline.
- Bumper edge – To assist with accurate bumper cut measurement, reference to the start of the bumper edge is now being commonly used.
    - Measure from bottom edge along bumper and around corner to the 70 mm point (Figure 1).
    - Do not measure from visible bumper front of corner, upwards (Figure 2).

Drilling

- For any required drilling during installation, ensure that the area is clear of fuel, electrical & other components that may be damaged.
- All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.

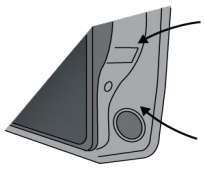
Bolts/Fasteners

- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.

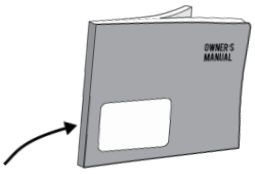
NOTE: Achieving correct torque is critical to proper installation and responsibility of the installer. Towbar failures attributed to tension issues from over tightening or under tightening are not covered by Hayman Reese warranty.

Product Labels

a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.
b. Powertrain Control Module (PCM)/Body Control Module (BCM) upgrade warning label will be provided in towbar kit for vehicles as required. Affix warning label in door and owner's handbook.



Place **Load Rating sticker** inside driver's door here



Place V**ehicle PCM/ BCM upgrade warning label** in door AND on front cover of owner's service handbook

WARNING:

Do not, drill, cut, weld or otherwise modify the towbar.
FOR TOWING PURPOSES ONLY - This towbar is designed and tested by Hayman Reese to adhere to ADR 62/02 which provides only for the expected load demands of towing.

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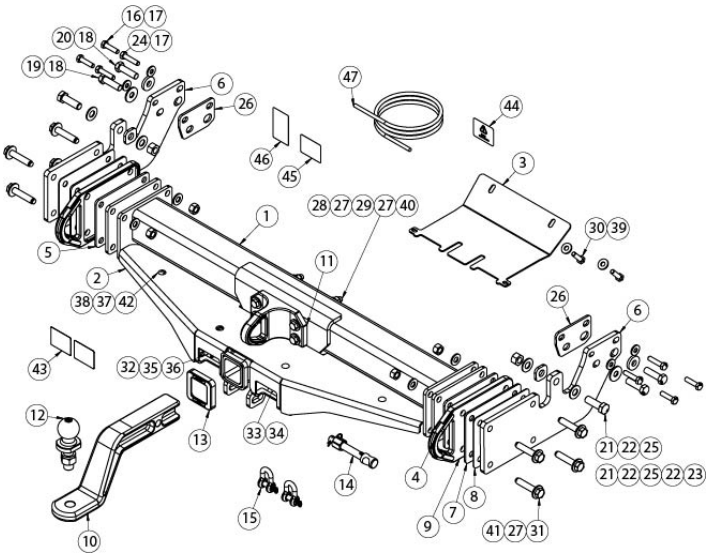
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TOWBAR ASSEMBLY DIAGRAM



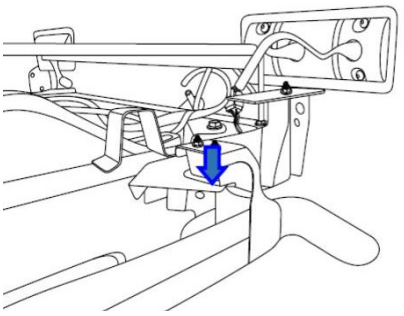
ITEM	DESCRIPTION	QTY
1	XBAR MODEL C	1
2	BOLT ON PLATE - MODEL C	1
3	BASH PLATE	1
4	SPACER PLATE 8mm	2
5	SPACER PLATE 5mm	2
6	SIDE ARM ASSEMBLY	2
7	SPACER PLATE 4mm	2
8	SPACER PLATE 2mm	2
9	FORGED SIDE RECOVERY PLATES	2
10	FORGED TBM EXTENDED DROP 3.5T	1
11	FORGED CENTRE RECOVERY MOUNT	1
12	TOWBALL 50mm	1
13	HITCH BOX COLLAR COVER	1
14	SMART PIN GOLD	1
15	“D” SHACKLE 10mm	2
16	BOLT HEX HD M10x40x1.25P	4
17	WASHER PLAIN M10x25x3mm	4
18	SET SCREW HEX HD M14xx50x1.5P	4
19	WASHER PLAIN M14x37x3mm	2
20	SPACER	2
21	SET SCREW HEX HD M16x50x1.5P	2
22	WASHER PLAIN M16x33.5x2.5mm	4
23	NUT HEX HD M16x1.5P	2
24	SET SCREW HEX HD M10x45x1.5P	4

ITEM	DESCRIPTION	QTY
25	REAR SPACER PLATE	2
26	FORWARD SPACER PLATE	2
27	WASHER PLAIN M12x28x3mm	24
28	NUT NYLOC HEX HD M12x1.75P	4
29	SPACER TUBE 90MM 16X1.6	4
30	BOLT HEX HD M10x35x1.25P	2
31	BOLT HEX HD M14x70x2.0P	8
32	SCREW PAN HD M3x20x0.7P	2
33	NUT NYLOC HEX HD M4x0.7P	2
34	SCREW PAN HD M4x16x0.7P	2
35	NUT NYLOC HEX HD M3x0.7P	2
36	SET SCREW HEX HD M8x25x1.25P	2
37	WASHER PLAIN M8x22x3mm	8
38	NUT HEX HD M8x1.25P	6
39	WASHER PLAIN M10x25.4x3mm	2
40	BOLT HEX HD M12x150x1.75P	4
41	NUT HEX HD M14x2.0P	8
42	BOLT COACH M8x20x1.25P	4
43	XBAR DECAL STICKER	2
44	XBAR TORQUE RATING WARNING LABEL	1
45	COMPLIANCE LABEL	1
46	LOAD RATING LABEL	1
47	WIRING LOOM	1

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1. Remove and retain 2 x screws securing rear section of exhaust to exhaust mount.

   This is to allow for greater tool access for installation of towbar.

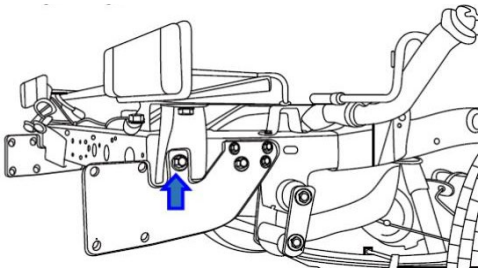


FOR DUAL CAB MODEL:

2. Using the side arm as a template for the rear chassis mount, mark off and drill a Ø16.5mm hole in the chassis.

3. Spray with rust inhibitor.

   Repeat steps 2-3 for opposite side of vehicle

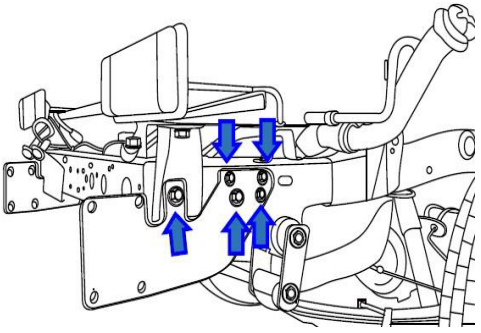


4. Loosely secure side-arm and forward spacer plate to upper holes on outside face of chassis rail using **2 x M10 x 1.25 bolts (Single Cab)** or **2 x M10 x 1.5 (Dual Cab)**, complete with 1 x flat washer per bolt.

5. Loosely secure side arm and forward spacer plate to lower holes on outside face of chassis rail using 2 x M14 bolts, complete with 1 x flat washer per bolts.

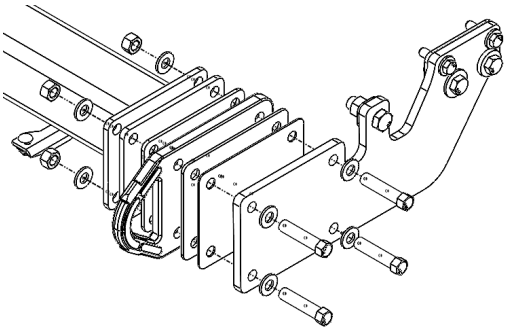
6. Loosely secure side arm and rear spacer plate to tray mounting point using 1 x M16 screw, complete with 1 x flat washer. For **Dual Cab**, complete the fitment with the addition of 1 x flat washer and 1 x M16 nut.

   Repeat Steps 4-6 for opposite side of vehicle.



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7. Complete Step C prior to attaching towbar to side arms.



Using two people, lift towbar up to side arms ensuring to sandwich red recovery side plate between side arms and cross tube, with 8mm and 5mm spacer plate in recess of red plate.

Use 4mm and 2mm Spacer plates per side after recovery side plate if required to take up any chassis variation.

Note: Red recovery side plates must have recess facing inwards.

Loosely secure towbar to side arms with 4 x

8. Refer to sequence A, B, C, and D over page for final assembly instructions.

IMPORTANT:

- Ensure all bolts are secured to correct torques using a calibrated torque wrench.
- Tighten side arms to chassis rail first in an even pattern/sequence.
- Tighten centre section to side arms in an even pattern.
- Tighten all other fasteners.

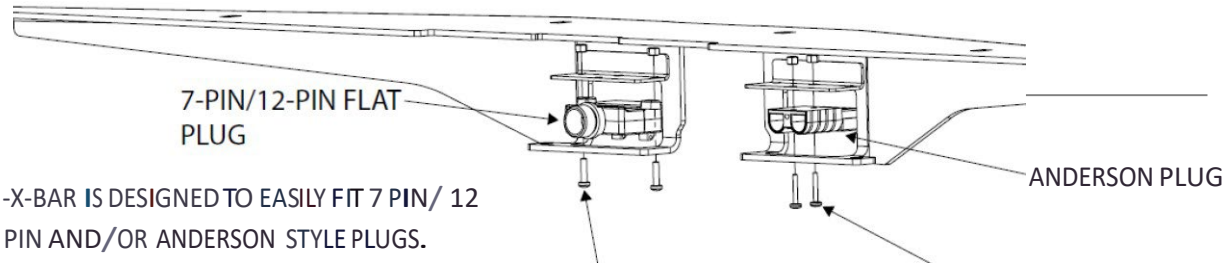
TORQUE SPECIFICATION:

- **M8: 22 N.m**
- **M10: 48 N.m**
- **M12: 140 N.m**
- **M14: 175 N.m**

WARNING: Correct tension for M14 centre section to side arms **MUST** be followed.

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A. FIT PLUGS TO PLUG BRACKETS

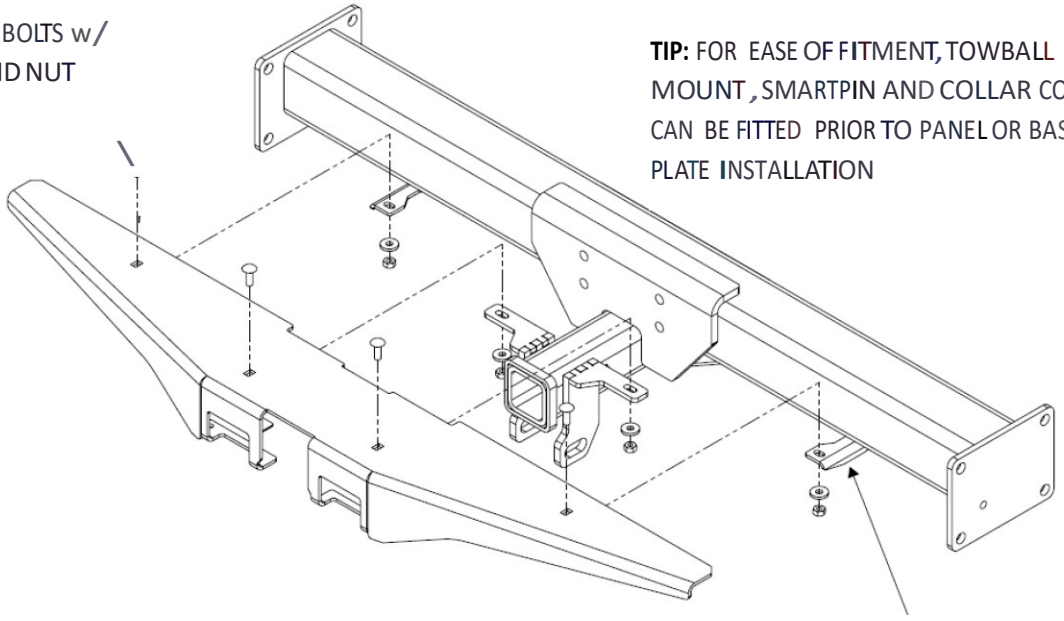


-X-BAR IS DESIGNED TO EASILY FIT 7 PIN/ 12 PIN AND/OR ANDERSON STYLE PLUGS.

TIP: WIRED CONNECTOR CAN BE MOUNTED PRIOR TO PANEL INSTALLATION

B. BOLT COVER PLATE TO TOWBAR

M8 COACH BOLTS w/ WASHER AND NUT

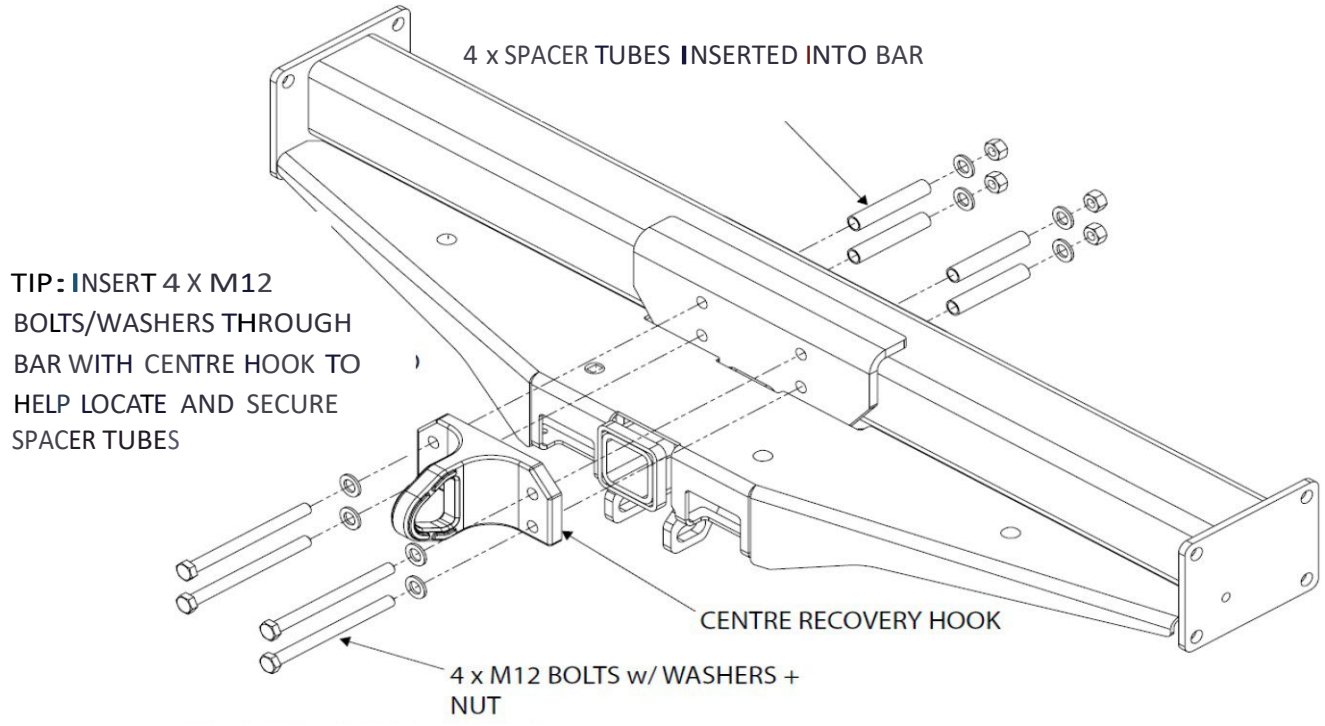


TIP: FOR EASE OF FITMENT, TOWBALL MOUNT , SMARTPIN AND COLLAR COVER CAN BE FITTED PRIOR TO PANEL OR BASH PLATE INSTALLATION

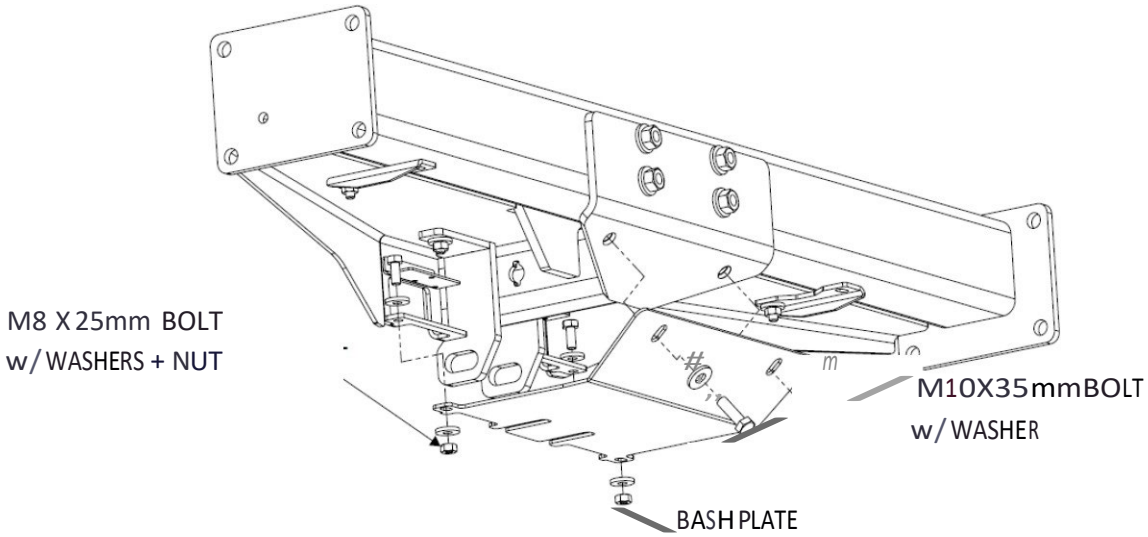
PLATE LOCATING TABS

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C. BOLT CENTRE RECOVERY HOOK TO TOWBAR



D. BOLT BASH PLATE TO TOWBAR



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IMPORTANT

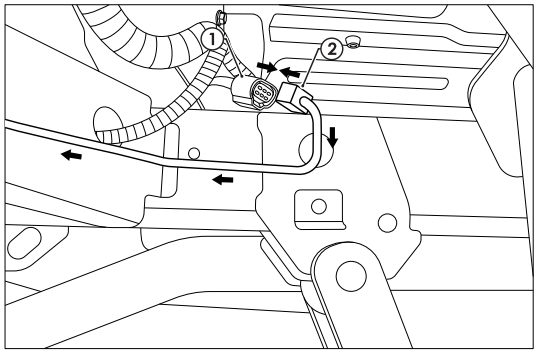
Due to possible vehicle variations, always confirm any noted vehicle colour wires with a multi-meter to ensure the correct function is identified before soldering or scotch locking. For vehicle wires denoted with two colours (example; RED/GREEN) the first colour will always be the main wire colour while the second colour is the thinner trace colour on the wire.

9. On the rear of the LHS chassis rail, locate the 8- way vehicle breakout connector **(1)**.

10. Remove the blanking plug from the vehicle breakout connector **(1)**.

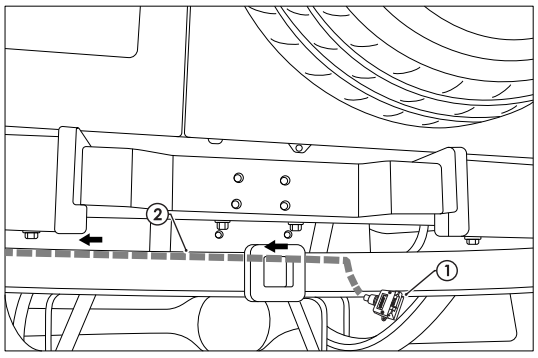
11. Connect the Trailer Harness (P/No: 100038- WL) 8-way connector **(2)** to the vehicle 8-way breakout connector **(1)**.

    For MY19 and on, breakout connector will be located in the centre, between the chassis rails.



12. Mount the trailer socket **(1)** to the towbar mounting bracket using M4 fasteners (not supplied).

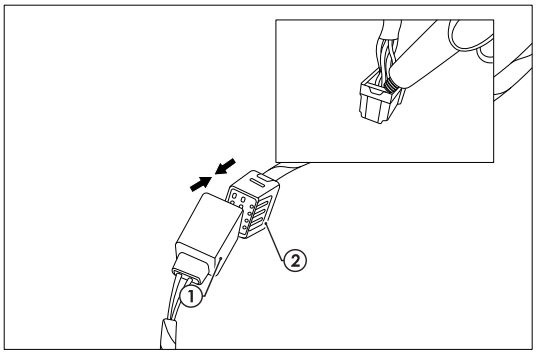
13. Route the Tail Harness (tail length 1200mm) **(2)** across the towbar and towards the LHS of the vehicle.



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14. Connect the Tail Harness 8-way connector **(1)** to the Trailer Harness mating 8-way connector **(2)**.

15. Waterproof the connectors by applying electrical grease or silicone **(3)** to the back of each connector.



16. Test the trailer harness function using a light board or multimeter.

17. Secure all harnesses using cables ties (not supplied).

18. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.

19. Place instructions in glove box after fitment.

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CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE
VEHICLE'S GLOVEBOX AFTER INSTALLATION

THANK YOU FOR PURCHASING HAYMAN REESE.
WITH CORRECT MAINTENANCE AND CARE THIS PRODUCT WILL PROVIDE A LIFETIME OF TROUBLE-FREE OPERATION.

TOWBAR MAINTENANCE AND CARE:

1. Hayman Reese recommend that the towbar LUG or TBM (tow ball Mount) Pull Pin and R-clip are removed and stored when not in use. Removal of LUG or TBM (tow ball mount) is advisable when not in use to assist with any of the following.
    - Ensure rear number plate is not obscured.
    - Allow maximum available departure angle and prevent any potential interference.
    - Prevent possible interference with vehicles reverse sensors or camera detecting a tow ball mount as an obstruction during reversing.
    - Removes towball mount as an obstruction for when moving around the rear of the vehicle.
2. Hayman Reese recommends routine inspection of your towbar to ensure trouble free towing.
    - Bolt security and tension should be regularly inspected and checked for correct tension. Replace any worn or defective parts with suitable grade & class fasteners. Inspection should be requested to coincide with vehicle major services.
3. It is the owner's responsibility to ensure towing and down ball weight capacities of the towing vehicle are not exceeded.
    - Towing and down ball weights allowable may differ according to model variations. Please refer to owner's manual or vehicle dealer to confirm exact rating for your vehicle model variant.
    - It is not uncommon for the vehicle tow rating to differ from the towbar rating. When this occurs, the lesser rating must be adhered to.
    - For vehicles fitted with enhanced vehicle functions that may be altered/changed when towing i.e Trailer sway mitigation, blind spot detection, adaptive cruise control etc. Please consult owner's manual to understand changes enabled when towing and after towing.

WARRANTY INFORMATION:

Hayman Reese Towbars are covered by a Lifetime Warranty.
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
For further details please visit www.haymanreese.com.au/warranty or contact customer service on 1800 812 017 or info@haymanreese.com.au.

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CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION

HAYMAN REESE SMART PIN

Your Hayman Reese towbar is equipped with Smart Pin technology to help reduce towbar tongue rattle in most driving conditions. Please ensure below instructions are understood and routine maintenance is carried out to ensure best towing experience.

Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- Before towing, ensure R-Clip is properly installed and Smart pin nut is installed and tensioned. Replacement parts are available from your Hayman Reese Distributor.

TOWBALL MOUNT REMOVAL/INSTALLATION

STEP 1

Insert Trailer Ball Mount (TBM) (a) into towbar hitchbox (b), aligning hole in TBM shank (c) with hole in hitchbox (d) (Fig. 1)

STEP 2

Insert Smart Pin (e) through hole in hitchbox and hole in TBM shank (g); ensure the locators are inserted into the notches in the hitchbox (Fig. 2)

STEP 3

Screw Smart Pin Nut (f) onto Smart Pin (g); tighten Smart Pin Nut until finger tight, ensuring TBM is restrained from up and down movement.

STEP 4

Tighten Smart Pin Nut by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig. 4).

STEP 5

Install Smart Pin R-Clip through the hole that provides best clearance or easiest access. (Fig. 5)

STEP 6

Install towball onto TBM and tighten to **350 Nm** using a calibrated torque wrench (Fig. 6).

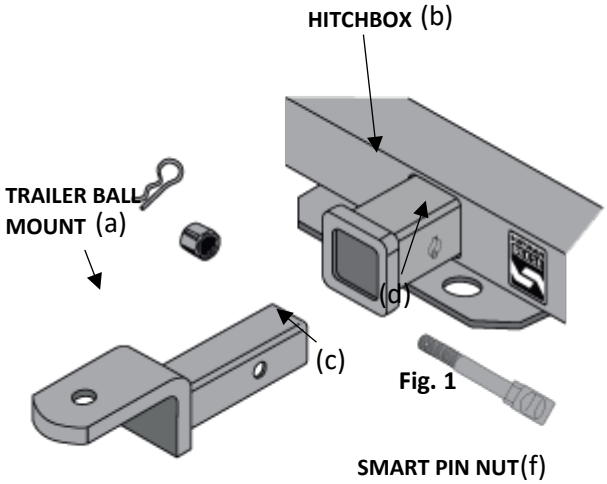


Fig. 1

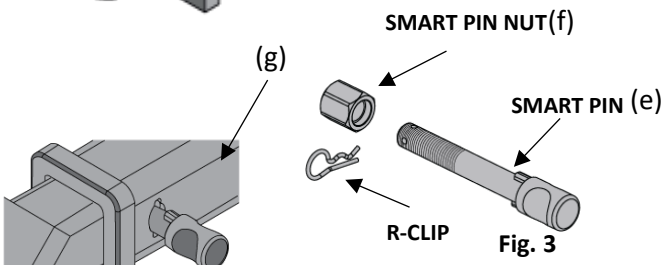
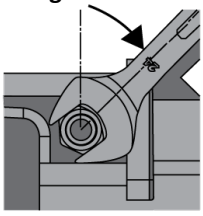
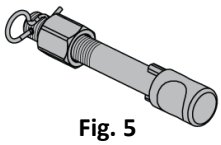
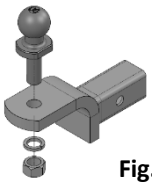


Fig. 3

Fig. 2


Fig. 4


Fig. 5


Fig. 6

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