



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03562XW

FORD RANGER MY25.25 X-BAR UTE CL4



PRODUCT DETAILS:

Part Number:	03562XW	Maximum Towing Braked:	3500	kg
ECU Number:	N/A	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200 mm	Maximum Static Ball Load:	350	kg
TBM/Lug Part Number:	21366			
Wiring Part Number:	102975-WL			

FITTING DETAILS:

Towbar Installation Time:	70 Mins.	Hayman Reese SmartCODE Solution Required:	NO
Wiring Installation Time:	15 Mins.	RPA Disable/Other:	NO
Total Installation Time:	85 Mins.	Bumper Cut Required:	No

Note:

- Please refer vehicles owner’s manual for proper operation and understand of towing features.
- For vehicle with factory fitted towbar only.

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



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

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ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT.

i 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).

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).

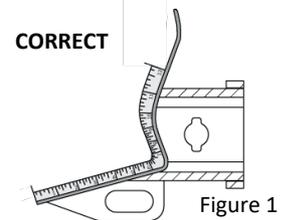


Figure 1

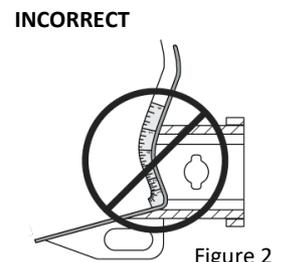


Figure 2

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

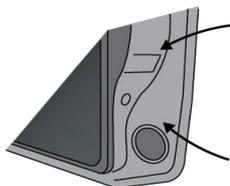
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

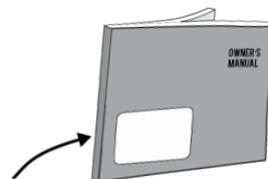
Product Labels

- Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.
- 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 **Vehicle 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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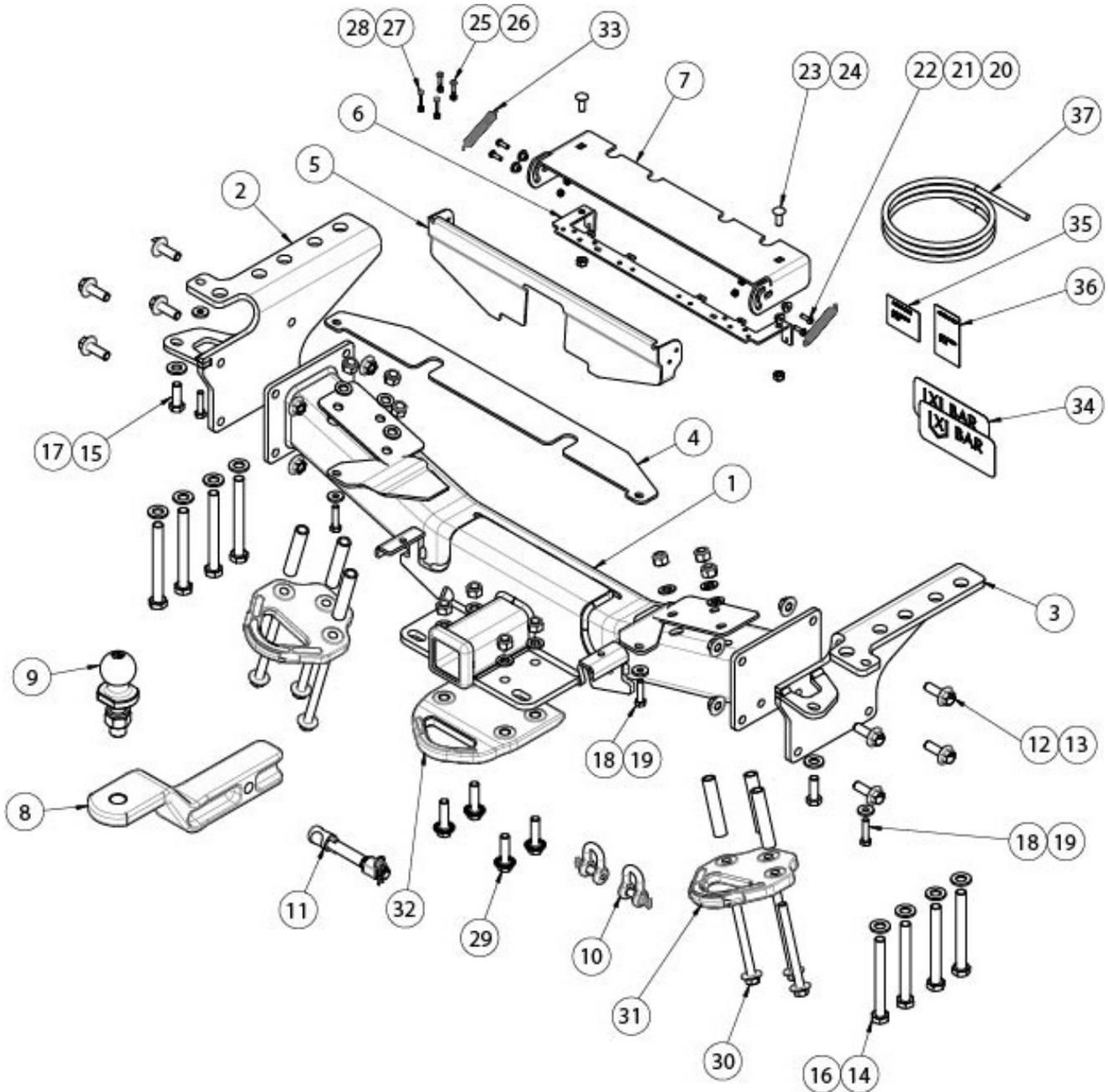


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TOWBAR ASSEMBLY DIAGRAM



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ITEM	DESCRIPTION	QTY
1	FORD RANGER TUB- WELDED ASSEMBLY	1
2	SIDE ARM ASSY, LH	1
3	SIDE ARM ASSY, RH	1
4	STEP PLATE	1
5	XBAR REAR COVER	1
6	PLUG PLATE	1
7	WIRING HOUSING	1
8	FORGED TBM 65MM DROP 3.5T	1
9	TOWBALL 50mm	1
10	"D" SHACKLE 10mm	2
11	SMART PIN GOLD	1
12	SET SCREW FLANGE HEX HD M12x35x1.25P	8
13	NUT FLANGE HEX HD M12x1.25P	8
14	BOLT HEX HD M14x130x2.0P	8
15	BOLT HEX HD M12x35x1.75P	2
16	WASHER PLAIN M12x37x3mm	8
17	WASHER PLAIN ½"	2
18	BOLT HEX HD M8x35x1.25P	4
19	WASHER PLAIN M8x22x3	4
20	NUT NYLON INS LOCK HEX HD M5x0.8P	4
21	BUSH 15ODx8Lx5ID	4
22	SET SCREW HEX HD M5x16x0.8P	4
23	BOLT COACH M8x20x1.25P	2
24	NUT NYLOC HEX HD M8x1.25P	2
25	SCREW PAN HD M4x16x0.7P	2
26	NUT NYLOC HEX HD M4x0.7P	2
27	SCREW PAN HD M3x20x0.7P	2
28	NUT NYLOC HEX HD M3x0.7P	2
29	CENTRE RECOVERY HOOK BOLT KIT	1
30	SIDE RECOVERY HOOK BOLT KIT	2
31	FORGED SIDE RECOVERY HOOK (XBAR TUB)	2
32	FORGED CENTRE RECOVERY HOOK (XBAR TUB)	1
33	XBAR COVER SPRING 60Lx100Dx1P	2
34	COMPLIANCE LABEL	1
35	LOAD RATING LABEL	1
36	X-BAR DECAL STICKER MKII	2
37	WIRING LOOM	1

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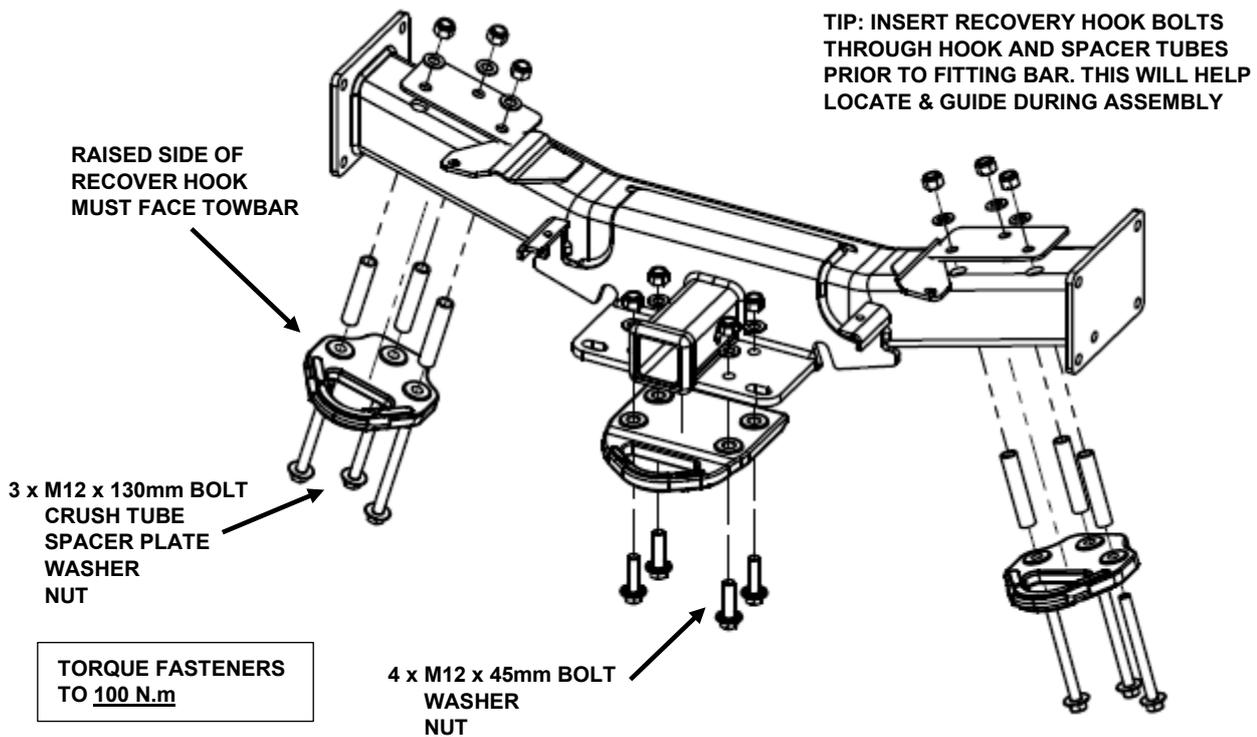
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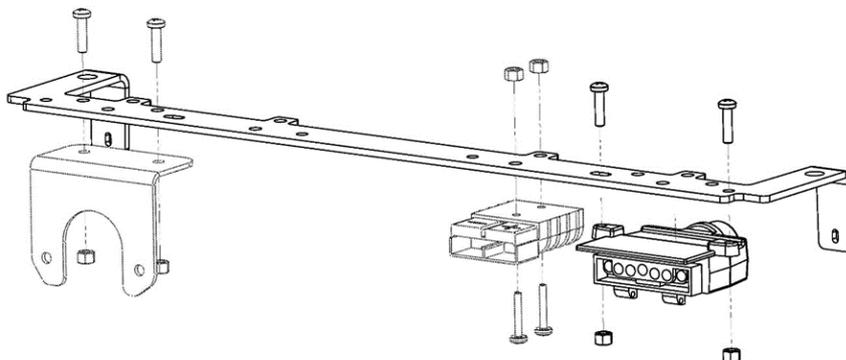
NOTE: Pre-assembly of X-Bar centre section can assist for vehicles with difficult access.

A. BOLT RECOVERY HOOKS TO TOWBAR



B. MOUNT PLUGS TO BRACKET

AFTER CHOOSING YOUR DESIRED PLUG CONFIGURATION, INSTALL PLUGS TO PLUG BRACKET USING FASTENERS PROVIDED



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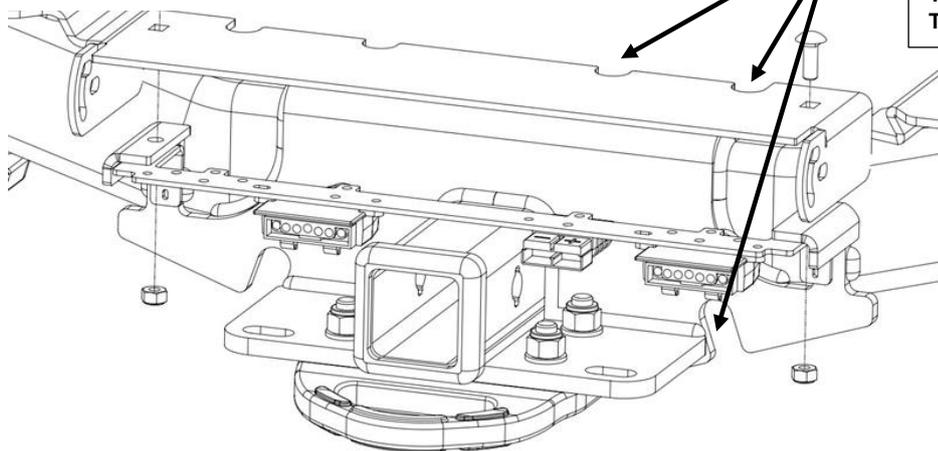
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C. INSTALL WIRING HOUSING

USING 2 x M8 COACH BOLTS COMPLETE WITH 1 x NYLOC NUT PER BOLT, SECURE THE WIRING HOUSING AND PLUG BRACKET TO THE MAIN TOWBAR ASSEMBLY THROUGH THE TAB HOLES AS SHOWN.

ROUTE TAIL HARNESS THROUGH EXIT POINT BEST SUITED TO VEHICLE

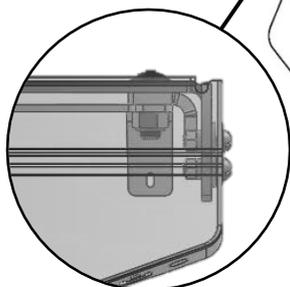
TORQUE FASTENERS TO 22 N.m



D. ATTACH COVER TO HOUSING

STEP IV: USE 1 x SPRING PER SIDE TO ATTACH HOUSING TO COVER PLATE

4 x M5 BOLT
NYLON BUSH
NYLOC NUT



STEPS I, II & III

- I. INSERT BUSHES INTO SLOTS
- II. THEN PLACE COVER OVER HOUSING, LINING UP BUSHES WITH SCREW HOLES
- III. FINALLY FASTEN COVER TO HOUSING BY PUSHING SCREWS THROUGH BUSHES AND SECURING WITH NUTS

NOTE: DO NOT OVERTIGHTEN FASTENERS TO ENSURE COVER ASSEMBLY CAN ROTATE FREELY & TO PREVENT DAMAGE TO BUSHES

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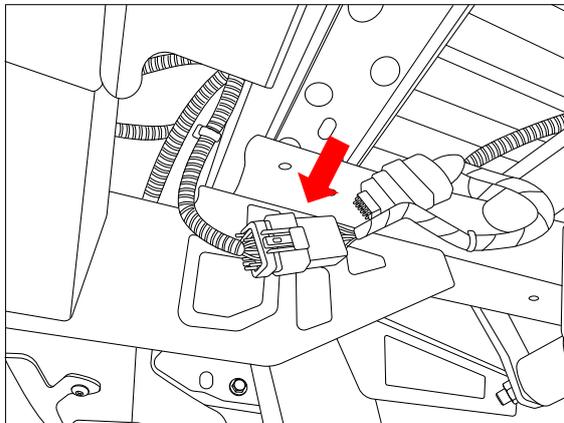


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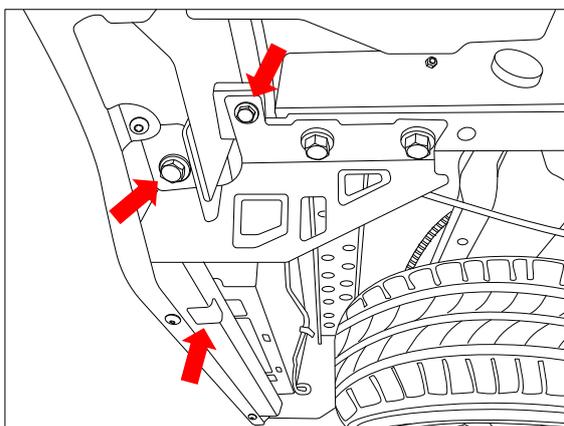
1. On the LHS, under the chassis, locate the vehicle rear step harness connector and disconnect.



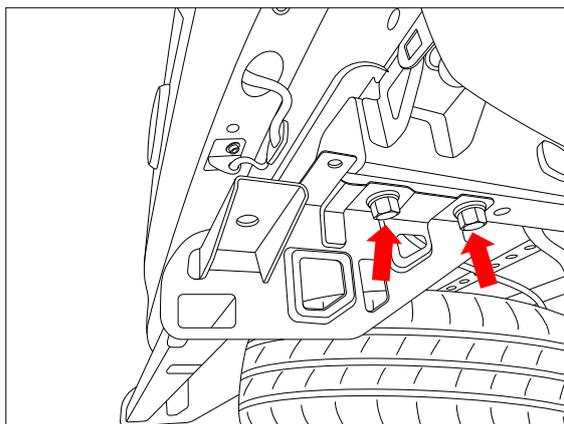
2. On the RHS, under the carriage on the step support, remove the 2x M8 and 1x M12 fasteners.

Repeat for the other side.

Remove the rear step (pull rearwards) and store in a safe place.



3. From under the chassis, remove and discard the rear step support bracket secured with 2x M14 bolts per side.



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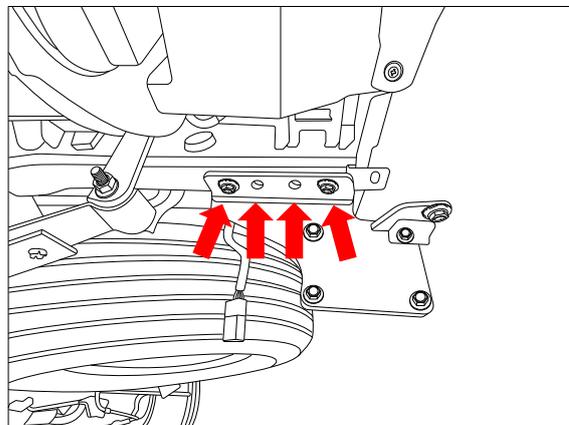
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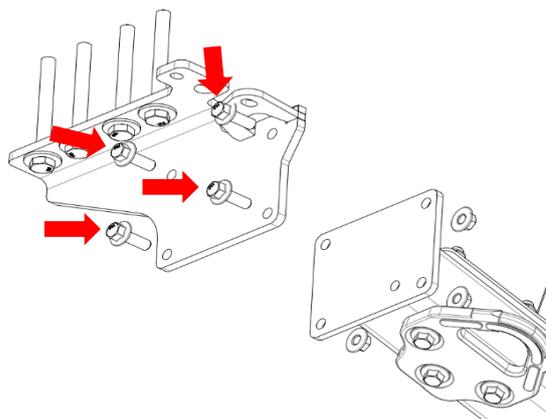
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4. Position the side arm to the chassis rail and loosely secure with 4x M14 bolts complete with 1 x washer per bolt.

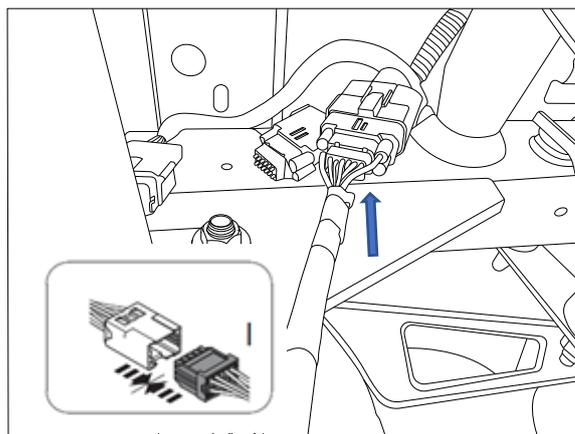
Repeat for the other side



5. If not already done, complete the pre-assembly of crosstube following steps A, B, C & D (Refer pages 5 and 6).
6. With assistance raise crosstube assembly up to the side arms and loosely secure each side with 4 x M12 flange bolts complete with 1 x flange nut per bolt.
7. Tighten all the fasteners to the following torque:
M12x1.25 Gr10.9 (flanged bolts) : 140Nm
M14 x 2 Gr10.9 : 175Nm.



8. Connect the trailer patch (102975-WL) to the vehicle mating connector.
9. Mount the trailer socket to plug bracket, route the tail blue connector towards trailer patch mating connector.
10. Connect and waterproof the blue connector using die electric grease.



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11. Test the functionality of trailer socket ensuring all lights and brake controller output function correctly.
 12. Place fitting instructions in glovebox when finished.
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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.**

i 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.

i 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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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.

i 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

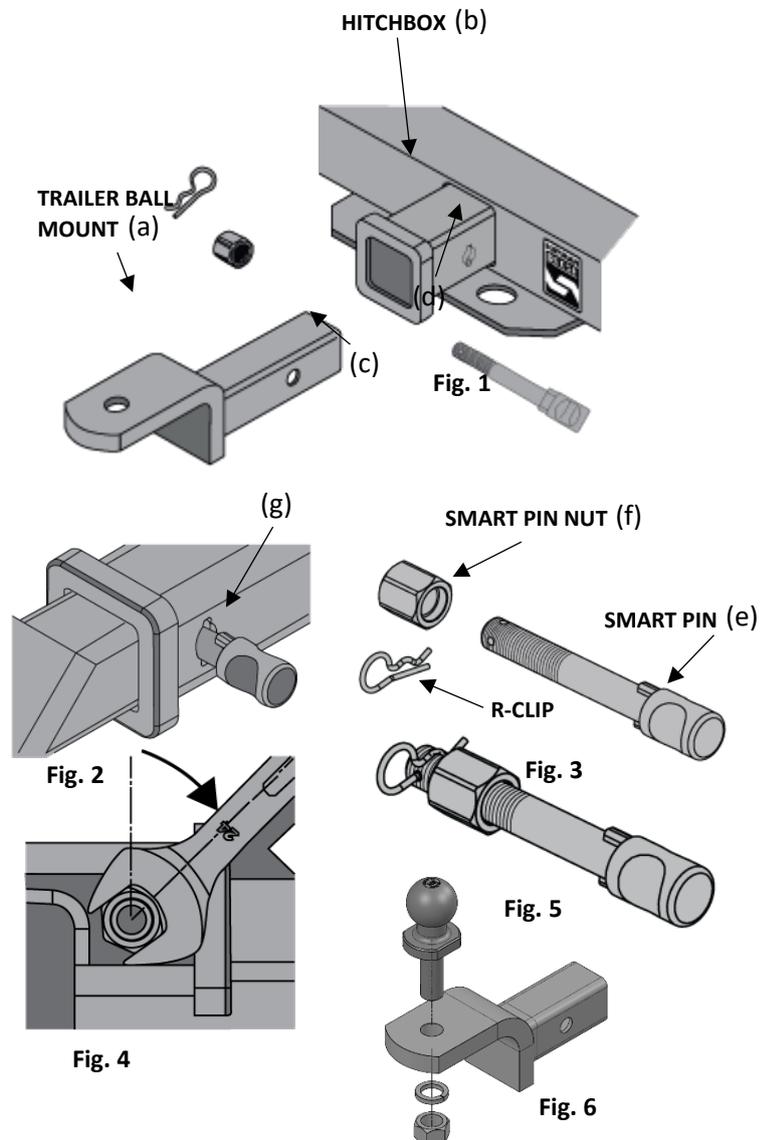
Tighten Smart Pin Nut by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig. 4).

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).



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