



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03362XW

FORD RANGER PX XBAR SC



PRODUCT DETAILS:

Part Number:	03362XW	Maximum Towing Braked:	3500	kg
ECU Number:	WLE70003	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1800 mm	Maximum Static Ball Load:	350	kg
TBM/Lug Part Number:	21359			
Wiring Part Number:	WLL90003			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Hayman Reese SmartCODE Solution Required:	YES
Wiring Installation Time:	15 Mins.	RPA Disable/Other:	YES
Total Installation Time:	75 Mins.	Note:	
Bumper Cut Required:	No	• Electric Brake = Brake Prep Connector	

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



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

Hayman Reese (Cequent)
PO Box 4050, Dandenong South VIC 3164
Phone 1800 812 017 Email info@haymanreese.com.au

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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).

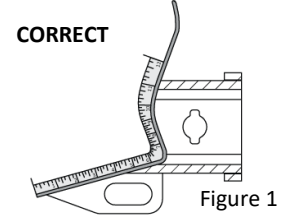


Figure 1

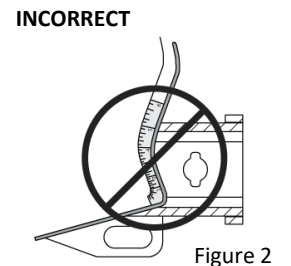


Figure 2

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

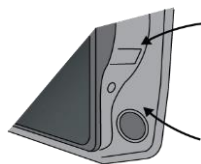
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

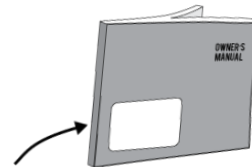
Product Labels

- 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 **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.

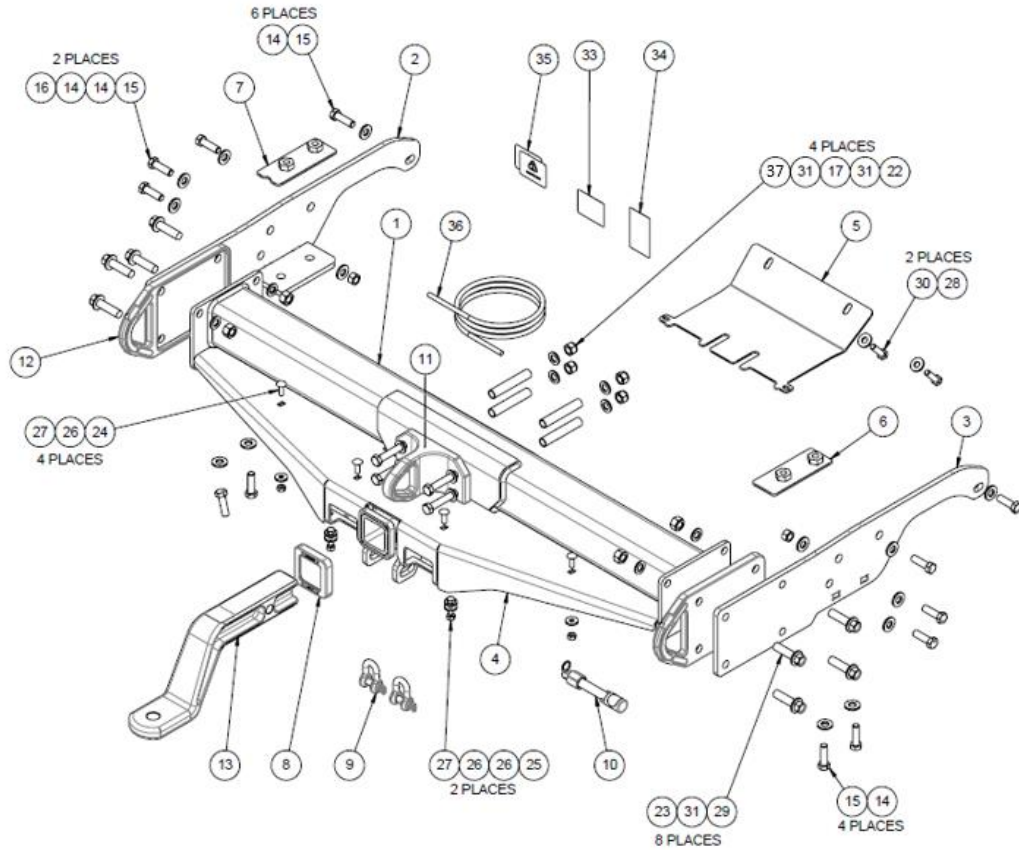


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i TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	XBAR WELDED ASSEMBLY	1
2	SIDE ARM ASSY LH	1
3	SIDE ARM ASSY RH	1
4	BOLT ON PLATE - MODEL A	1
5	BASH PLATE	1
6	NUT PLATE RH T6	1
7	NUT PLATE LH T6	1
8	HITCH BOX COLLAR COVER	1
9	"D" SHACKLE 10mm	2
10	SMART PIN GOLD	1
11	FORGED CENTRE RECOVERY MOUNT	1
12	FORGED SIDE RECOVERY PLATES	2
13	3.5T FORGED TBM EXTENDED DROP	1
14	WASHER PLAIN 1/2"	14
15	SET SCREW M12x40x1.75P	12
16	NUT HEX HD M12x1.75P	2
17	SPACER TUBE 90mm	4
18	SCREW PAN HD M3x20x0.7P	2
19	NUT NYLON LOCK HEX HD M4x0.7P	2

ITEM	DESCRIPTION	QTY
20	SCREW PAN HD M4x16x0.7P	2
21	NUT NYLON LOCK HEX HD M3x0.7P	2
22	SET SCREW HEX HD M12x150x10.9P	4
23	NUT HEX HD M14x10P	8
24	BOLT COACH M8x20x1.25P	4
25	SET SCREW HEX HD ³⁷ M8x25x1.25P	2
26	WASHER PLAIN M8x22x3	8
27	NUT HEX HD M8x1.25P	6
28	WASHER PLAIN M10x25.4x3	2
29	BOLT HEX FLANGE HD M14x50x2.0P	8
30	BOLT HEX HD M10x35x1.25P	2
31	WASHER PLAIN M12x28x3	16
32	XBAR DECAL STICKER	2
33	COMPLIANCE LABEL	1
34	LOAD RATING LABEL	1
35	CAN WARNING LABEL	2
36	WIRING LOOM	1
37	NUT HEX NYLON M12 X 1.75P PC10 BLK ZINI	4

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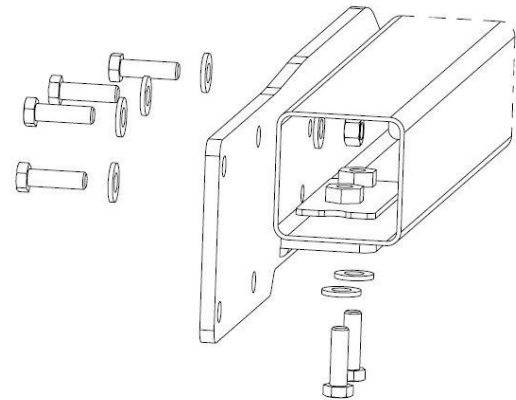
1. Lower spare wheel to allow better access for fitment

2. Insert nut plate into the LH side of the chassis rail and align with the holes on underside of rail.

Repeat for opposite side.

3. Loosely secure LH side arm to chassis rail via 4 x M12 bolts on the outboard side of chassis rail and 2 x M12 bolts on underside of chassis, complete with 1 x M12 washer per bolt (one bolt requires extra washer and nut on inside of chassis).

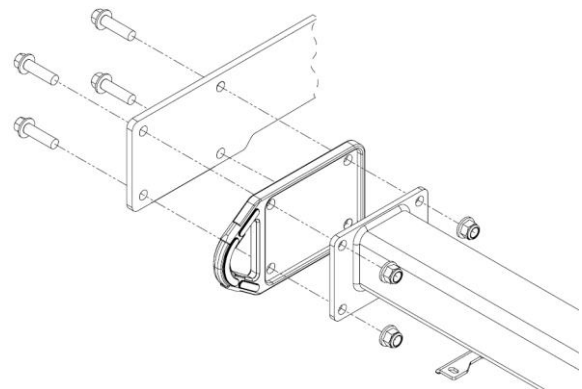
Repeat for opposite side.



4. Using two people, lift towbar up to side arms ensuring to sandwich red recovery side plate between side arms and cross tube.

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

Loosely secure towbar to side arms with 4 x M14 bolts per side complete with 1 x washers and 1 x nut per bolt.



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

-
6. Tighten all bolts to the torques listed below:

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

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. Repeat for centre section to side arms and finally torque all other fasteners.

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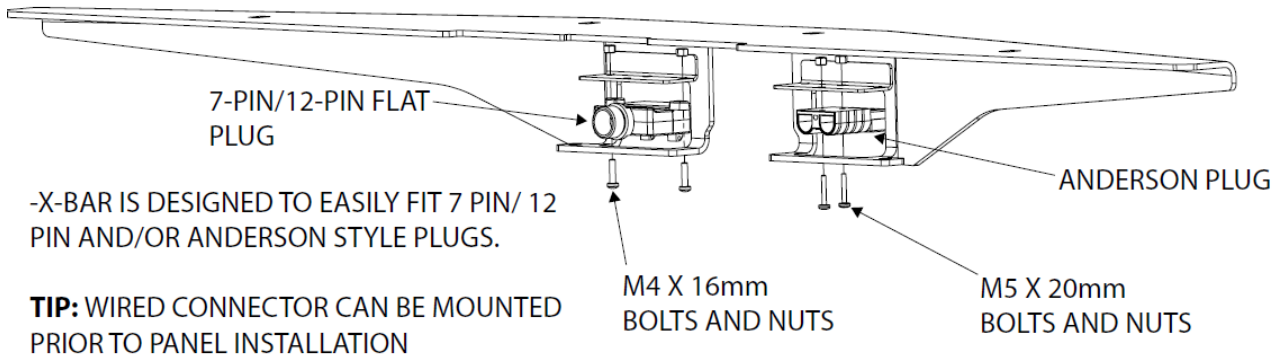


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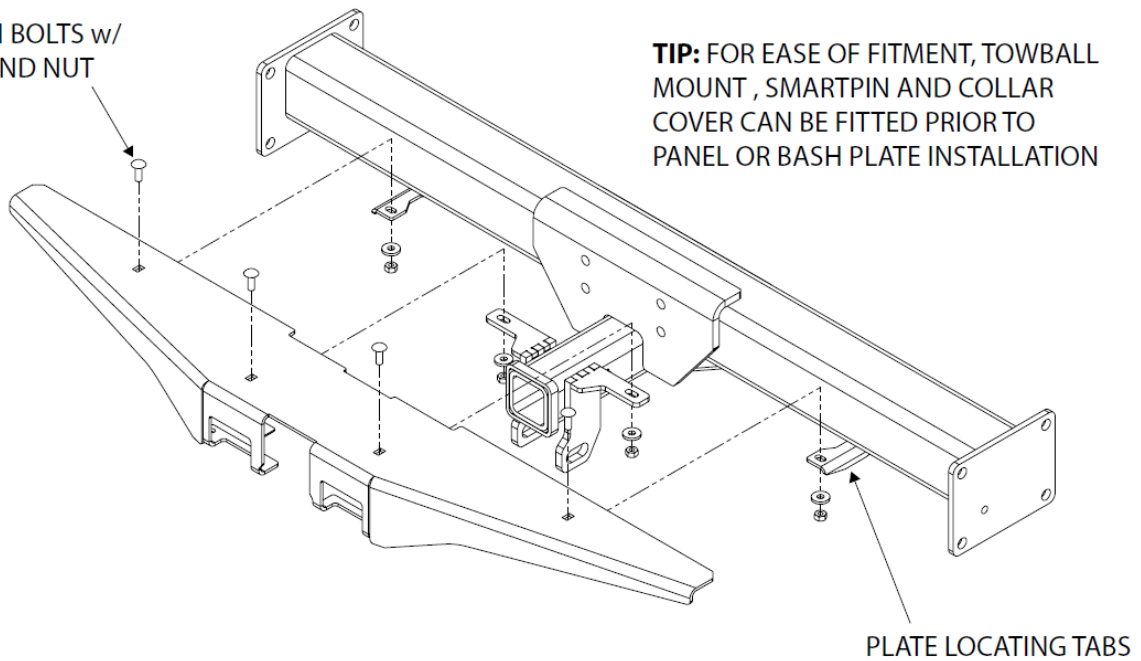
FORD RANGER PX XBAR SC

A. FIT PLUGS TO PLUG BRACKETS



B. BOLT COVER PLATE TO TOWBAR

M8 COACH BOLTS w/
WASHER AND NUT



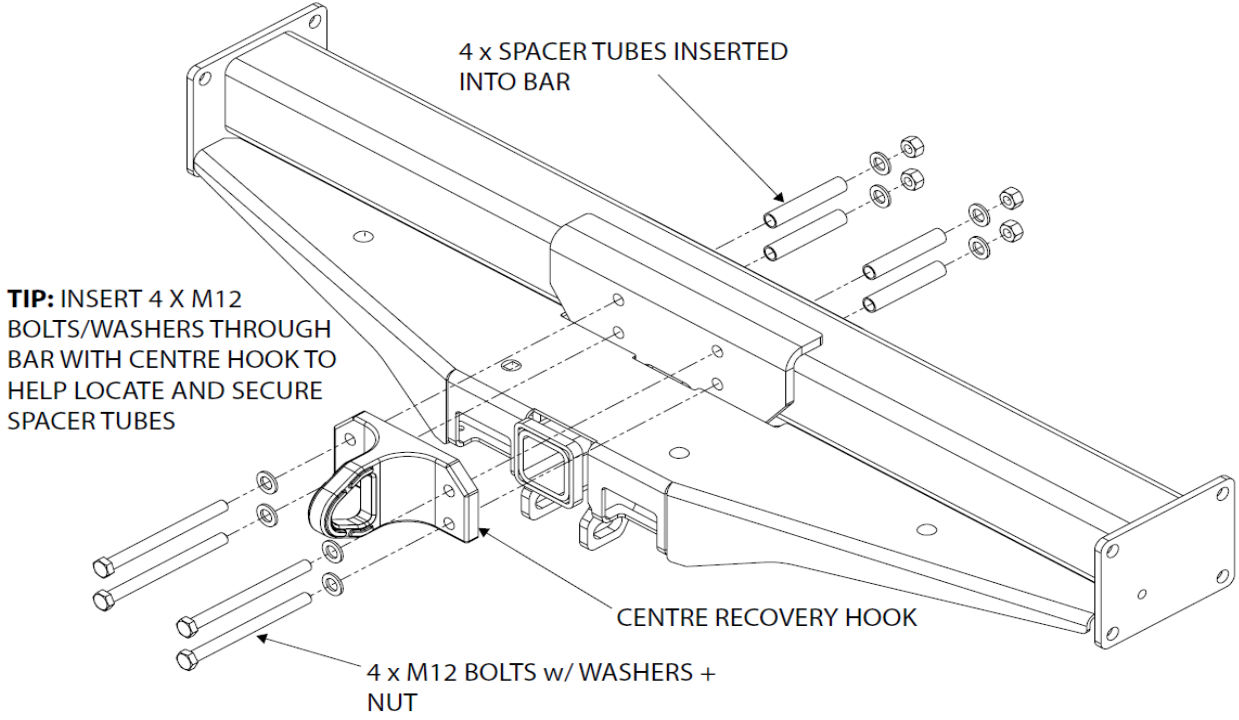
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Phone 1800 812 017 Email info@haymanreese.com.au

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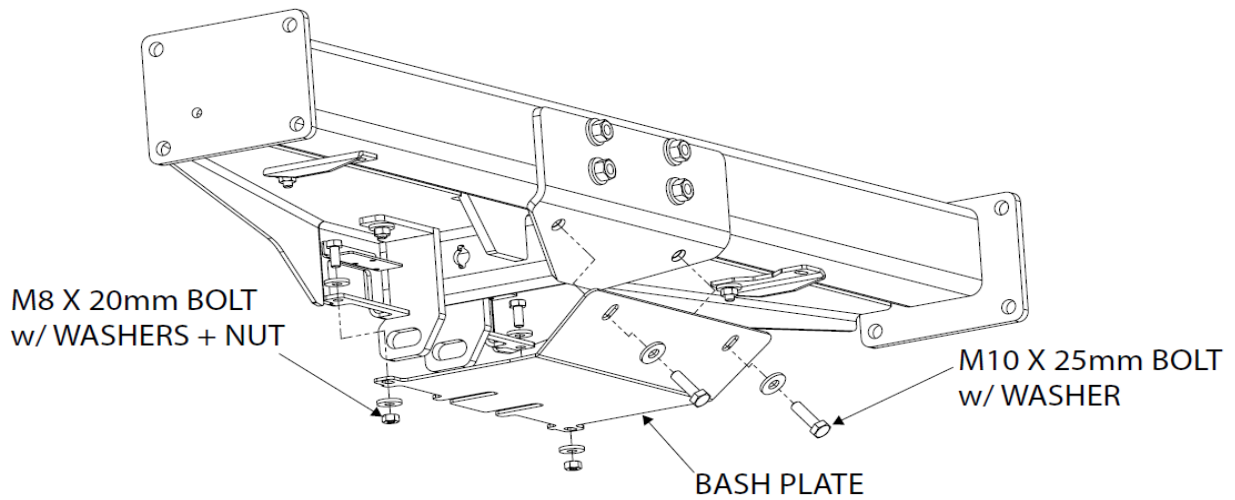




C. BOLT CENTRE RECOVERY HOOK TO TOWBAR



D. BOLT BASH PLATE TO TOWBAR



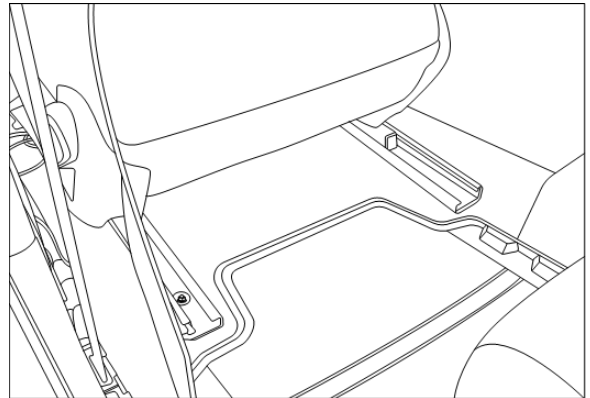
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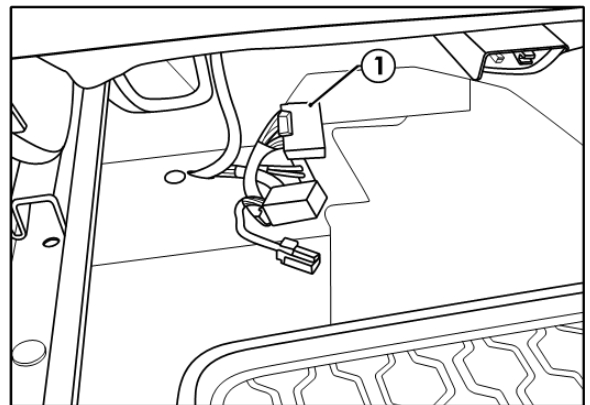
! IMPORTANT

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.

7. Underneath the front passenger seat, remove the plastic cover (if applicable).



8. Locate the vehicle CAN, Trailer, Power connectors (1) from underneath the floor carpet (bracket may or may not be present).



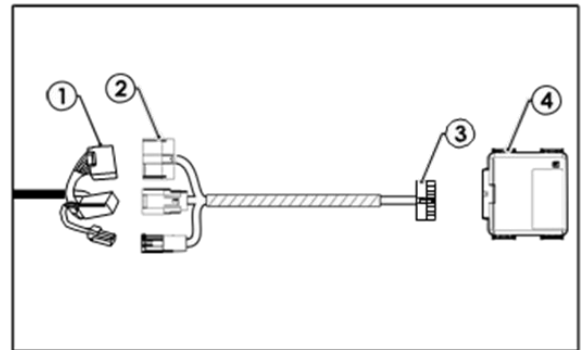


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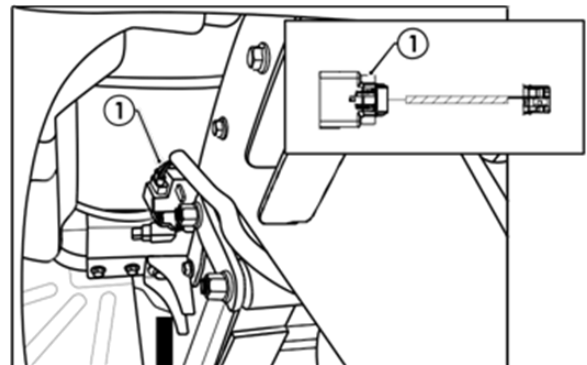
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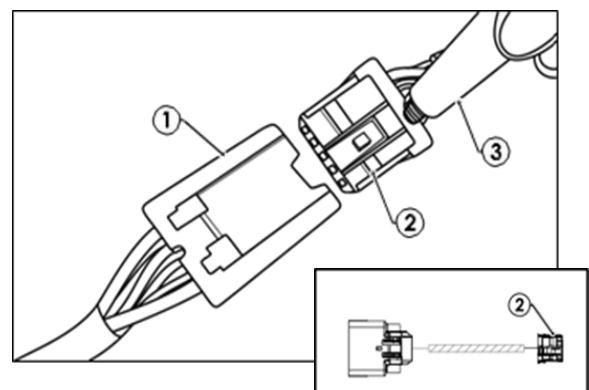
9. Connect the vehicle CAN, Trailer, Power connectors (1) to the harness patch mating connectors (2).
10. Connect the harness patch connector (3) to the ECU (4) (WLE70003).
11. Attach the supplied velcro tape to ECU and mount in a suitable location.



12. On the LHS rear under carriage, locate and disconnect the blanking connector from the vehicle 16-way connector.
13. Connect the patch harness 16-way connector (1) to the mating vehicle 16-way connector.



14. Connect the tail harness (1800mm) 8-way connector (1) to the trailer patch 8-way mating connector (2).
15. Waterproof the trailer patch 8-way connector (1) and the tail harness 8-way male connector (2) using silicone or grease (3).



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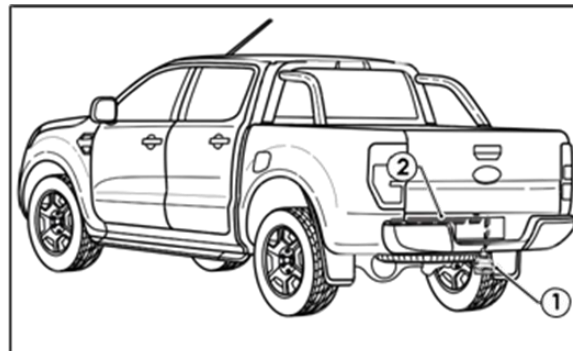


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16. Route the tail harness (tail length 1800mm) (2) from the towbar mounting (1), towards the trailer patch blue connector.



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17. Secure all harnesses using supplied cable ties (not supplied).
18. For Comfort and Safety features. To be enable this vehicle must be coded. Once coded the features of MS System Support OE functionality. Please read the Owner's Manual for proper operation and understanding.
19. Next step is coding of vehicle. Pay attention to the "SmartCode" instruction (Appendix).
20. Test the trailer wiring harness function using a light board
21. Place the fitting instructions in the glove box after fitment.
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PO Box 4050, Dandenong South VIC 3164
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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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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.

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

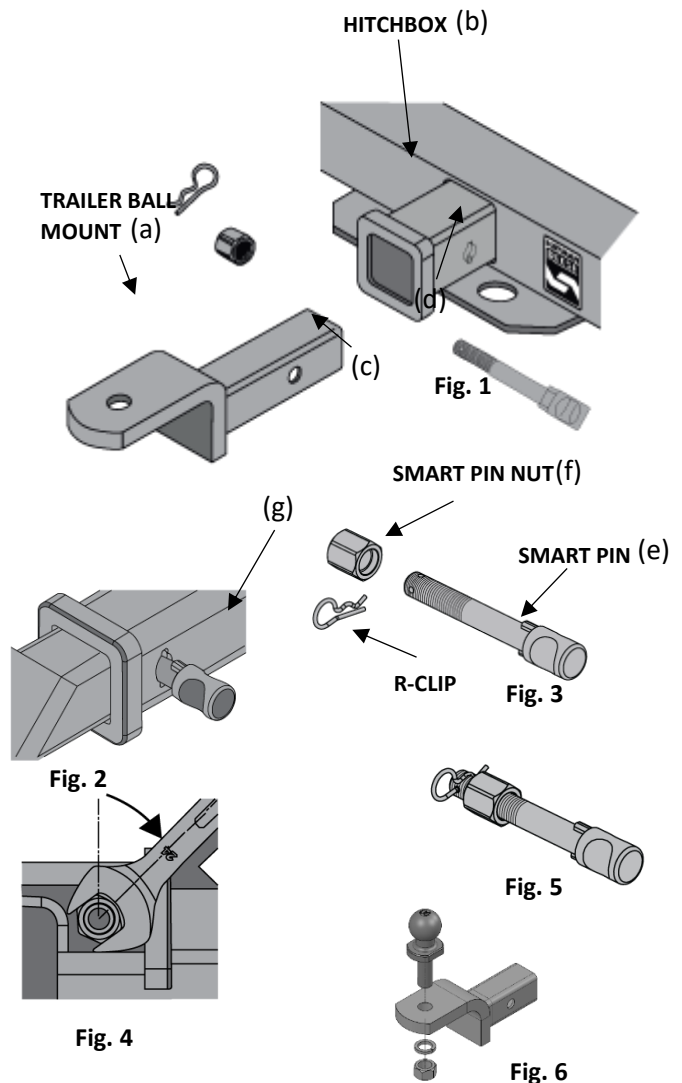
Tighten Smart Pin Nut by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig. 4).

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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Appendix



WARNING: This vehicle requires a system setting to ensure the trailer wiring and control module are correctly recognised. This process (referred to as 'coding') must be carried out to enable correct vehicle functionality when trailer is connected. Towing features enabled by correct control module and coding support OE functionality as set by OE manufacturer. Please read the vehicles owner's manual for proper operation and understanding.

Coding can be carried out using the Hayman Reese SmartCODE (HRSC) using the following steps. Note, if HRSC is unavailable, vehicle coding can be carried out by OE manufacturer as needed.

Before you start:

- **Ensure the HRSC software is up to date using the HAYMAN REESE SMARTCODE PC APP.**
 - **Ensure the vehicle battery is fully charged**
 - **Use of a battery support unit (BSU) is advised during the coding process.**
 - **Ensure towbar, wiring loom and ECU are correctly installed as per Hayman Reese fitting instructions.**
1. Locate the OBD2 port under the drivers footwell on the right-hand side and plug in the HRSC.
 2. Close all doors and turn the ignition on
 3. Follow the directions on the screen of the HRSC
 4. Once the vehicle has been coded successfully proceed to the "clear codes" tab
 5. Remove disconnect HRSC from OBD2 port.
 6. Check the dash to make sure there are no warning faults.
 7. Check the operation of trailer lights and ensure the Reverse Park Assist (RPA) is disabled and 'trailer on' icon is active where available.

For technical support and further information on Hayman Reese SmartCODE tool and coding process contact your nearest Hayman Reese stockist.

Australia: 1800 812 017

New Zealand: 0800 237 886