



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03585XW

FOTON V7 & V9 XBAR



PRODUCT DETAILS:

Part Number:	03585XW	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:	21352			
Wiring Part Number:	107221-WL			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Hayman Reese SmartCODE Solution Required:	NO
Wiring Installation Time:	20 Mins.	RPA Disable/Other:	YES
Total Installation Time:	80 Mins.	Note:	
Bumper Cut Required:	No		

- "Trailer Mode" must be enable via infotainment for Trailer light functionality.
- Please refer vehicles owner's manual for proper operation and understanding of towing features.

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).



SIDE RECOVERY HOOK (SINGLE)

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



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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).

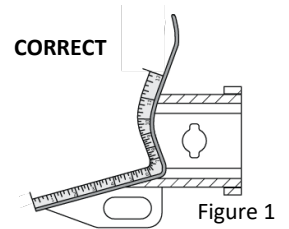


Figure 1

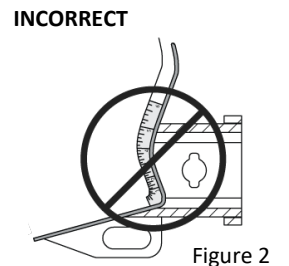


Figure 2

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

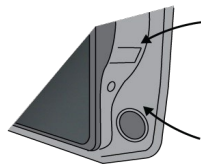
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

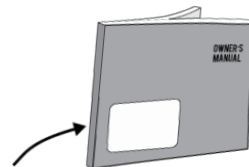
Product Labels

- 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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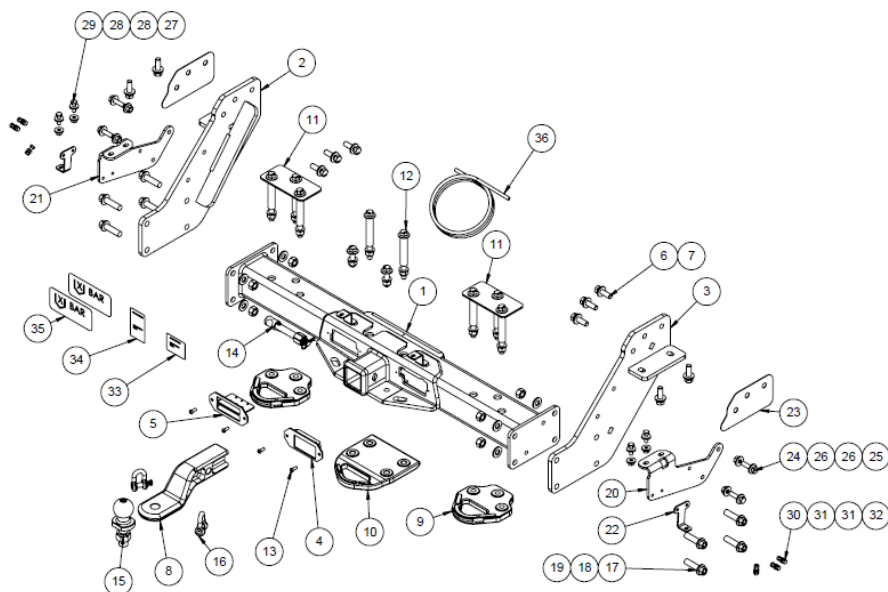


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TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	FOTON TUNLAND V9 XBAR WELDED	1
2	SIDE ARM - LHS	1
3	SIDE ARM - RHS	1
4	7/12 PIN PLUG BRACKET ASSEMBLY	1
5	ANDERSON BRACKET ASSEMBLY	1
6	SCREW HEX HD M12x40x1.25P G8.8	10
7	WASHER PLAIN M12x27x3.0mm	10
8	TRAILER BALL MOUNT	1
9	FORGED SIDE RECOVERY HOOK	2
10	FORGED CENTRE RECOVERY HOOK	1
11	SIDE RECOVERY HOOK BOLT KIT	2
12	XBARFORGED CENTRE HOOK KIT	1
13	SCREW BUTTON M6x16x1.0P G10.9	4
14	SMART PIN GOLD	1
15	TOWBALL 50mm	1
16	D-SHACKLE 10mm	2
17	BOLT HEX FLANGE M14x50x2.0P G10.9	8
18	WASHER PLAIN M14.4x28.6x3mm	8

ITEM	DESCRIPTION	QTY
19	NUT HEX HD M14x2.0P G10	8
20	STEP BRK RHS	1
21	STEP BRK LHS	1
22	BUMPER TAB	2
23	SPACER	2
24	BOLT HEX HD M10x40x1.5P G8.8	4
25	NUT HEX HD M10x1.5P G8	4
26	WASHER PLAIN M10x25x3.0mm	8
27	NUT HEX HD M8x1.25P G8	4
28	WASHER PLAIN M8x22x3.0mm	8
29	SCREW HEX HD M8x25x1.25P G8.8	4
30	SCREW HEX HD M6x20x1.0P GR 8.8 Z/P	6
31	WASHER PLAIN M6x12.5x1.2mm	12
32	NUT HEX HD M6x1.0P G8	6
33	COMPLIANCE LABEL	1
34	LOAD RATING LABEL	1
35	X-BAR DECAL STICKER MKII	2
36	WIRING LOOM	1

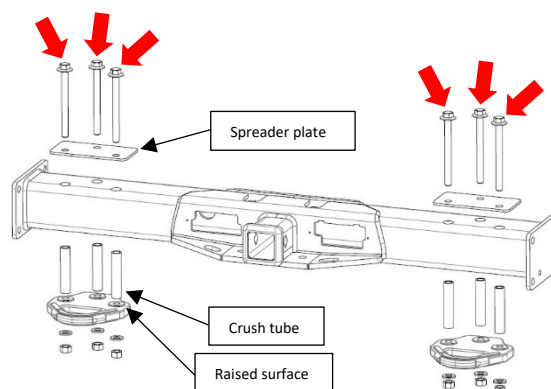
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1. Assemble recovery hooks on the cross tube.
Fit each side recovery hook with 3 x M12 flanged bolts complete with 1 x crush tube, 1 x washer and 1 x nut per bolt.
Ensure that the spreader plate is fitted above the cross tube.

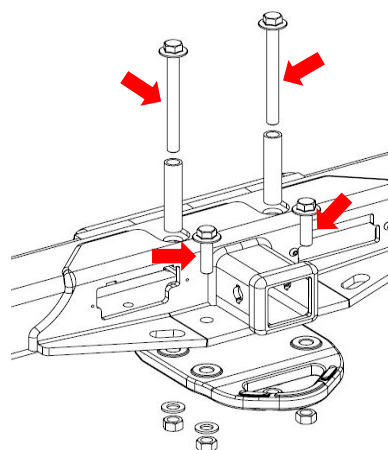
Torque the fasteners to 100Nm



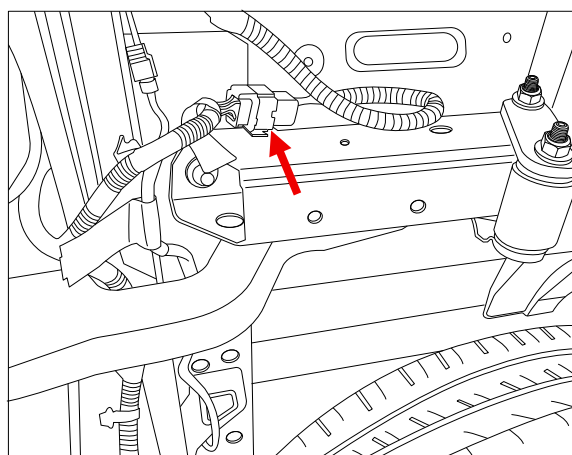
2. Insert the 2 x crush tubes into the cross tube and loosely install the centre recovery hook with 4 x M12 flanged bolts complete with 1 x washer and 1 x nut per bolt.

Torque the fasteners to 100Nm

NOTE: The recovery hook must bend downwards.



3. Raise the vehicle to working height.
On the driver side, disconnect the bumper harness.





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4. On the driver side, remove and discard 5x bolts.

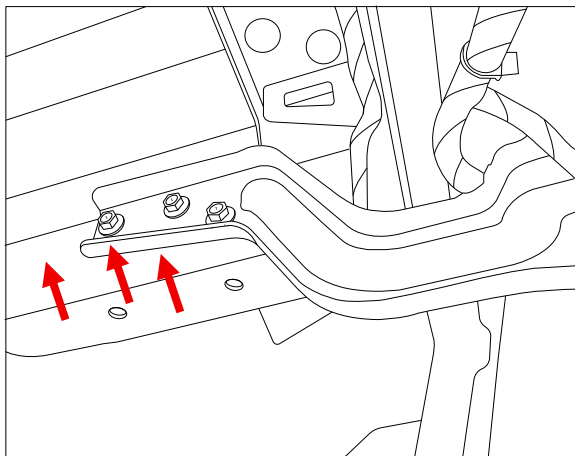
Repeat for the other side.

Tools Used:

Ratchet.

15mm socket.

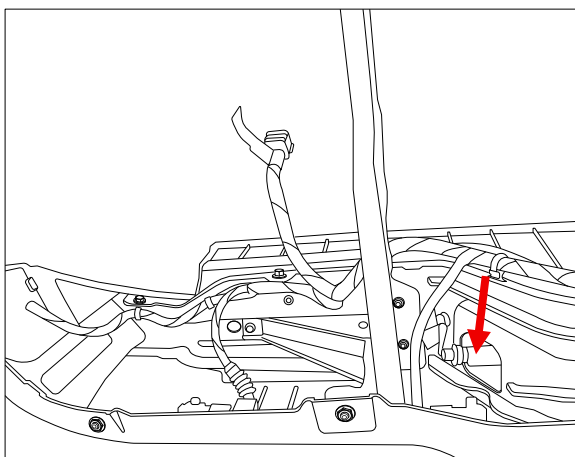
NOTE: Removing the bumper requires two people.



5. Remove the bumper from the vehicle and place it on a stand.

Remove the light socket from the housing.

Repeat for the other side.

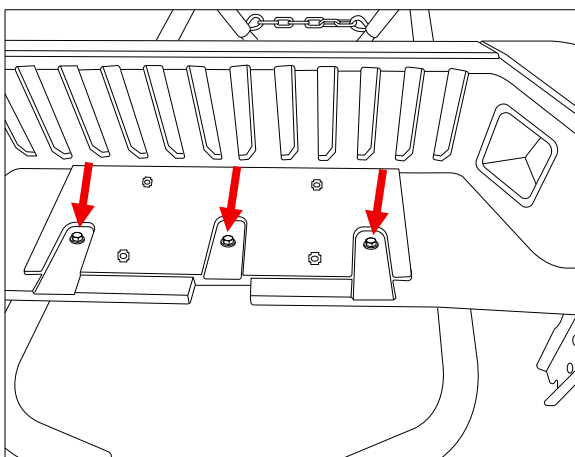


6. Remove and retain 3x screws

Tools Used:

Ratchet.

8mm socket.



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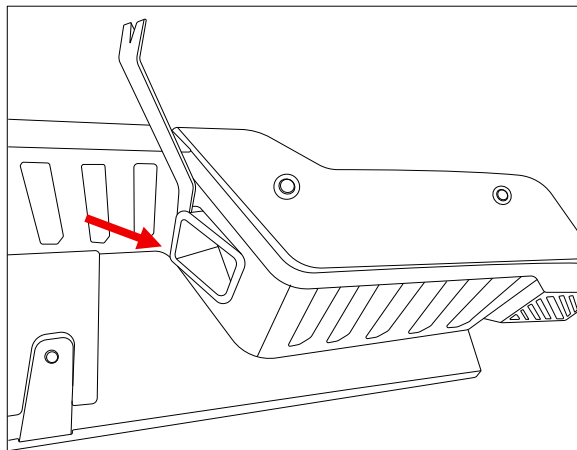
FOTON V7 & V9 XBAR

7. Remove the light house from the bumper.

Repeat for the other side.

Tools Used:

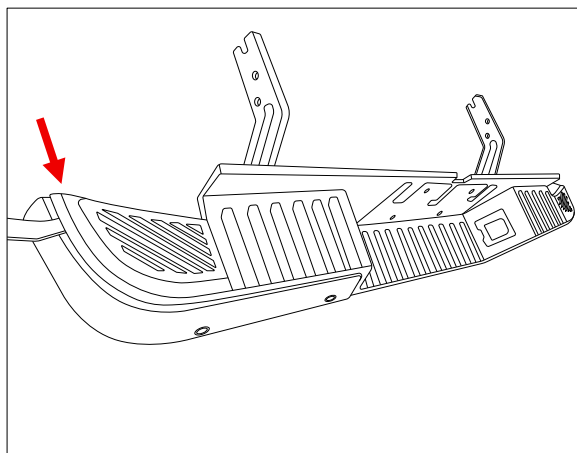
Trim tool.



8. Unclip the plastic step cover from the bumper.

Tools Used:

Trim tool.

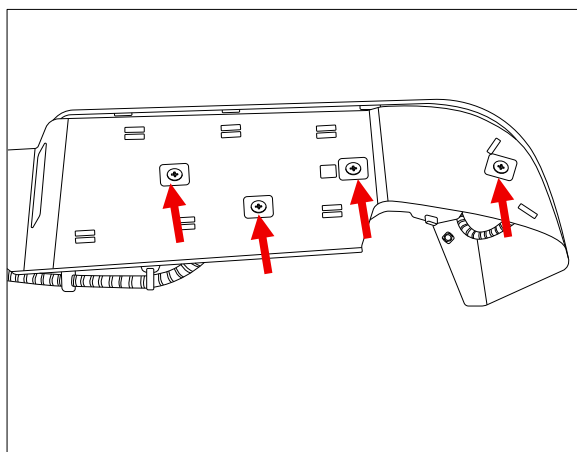


9. Remove and retain 4x screws from the side bumper.

Repeat for the other side.

Tools Used:

PH3 screwdriver.



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TOWBAR INSTALLATION INSTRUCTIONS

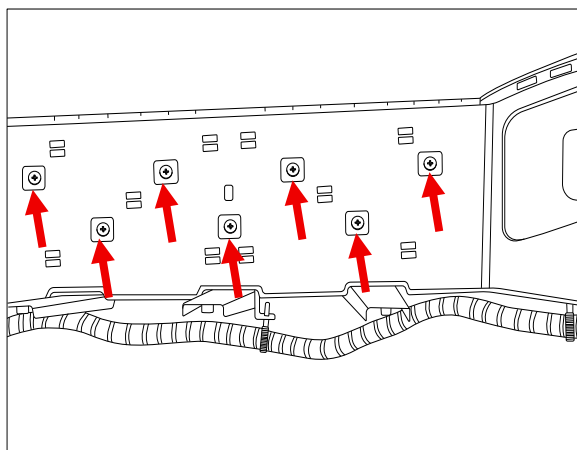
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10. Remove and retain 7x screws from the middle of the bumper.

Tools Used:

PH3 screwdriver.



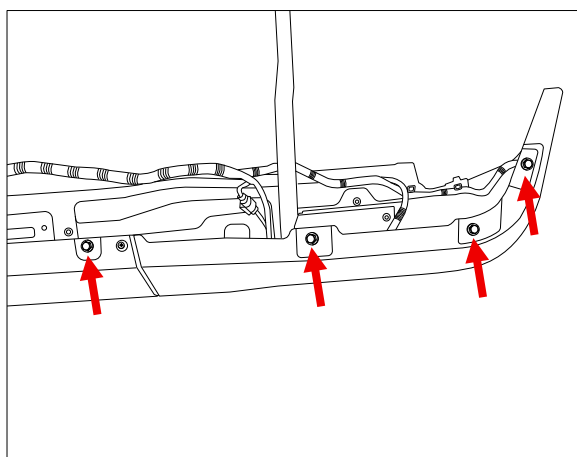
11. Remove and retain 4x screws.

Repeat for the other side.

Tools Used:

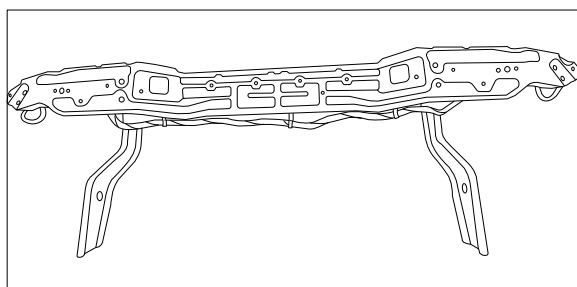
Ratchet.

8mm socket.



12. Unclip all the parking sensors from the plastic bumper.

Remove the plastic bumper from the bumper frame.



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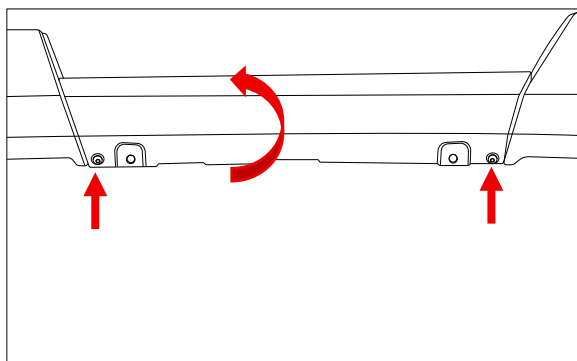


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13. Remove and discard 2x screws.
Unclip and discard the bumper center cover.



14. Remove 3x screws from the bumper frame and discard the bumper bracket.

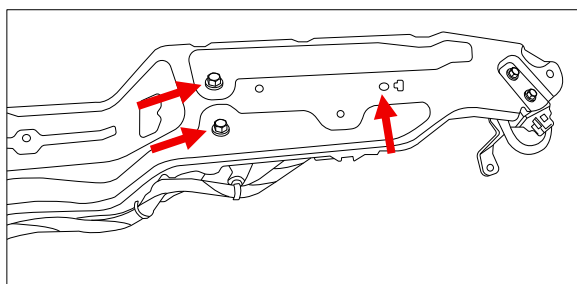
Repeat for the other side.

Tools Used:

Ratchet.

10mm socket.

PH3 screwdriver.



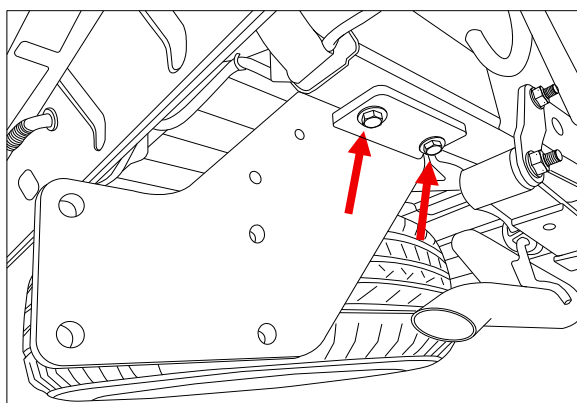
15. Fit the side arm to vehicle chassis.
Loosely secure it with 2x M12x1.25 and 2x washers.

Repeat for the other side.

Tools Used:

Ratchet.

18mm socket.



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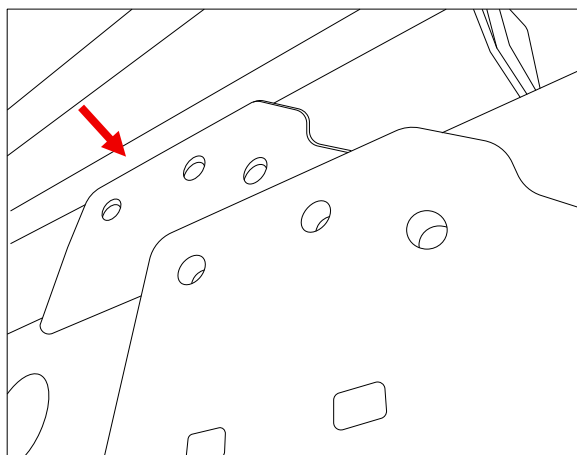
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16. Insert a shim plate between the side arm and the vehicle chassis. **If needed.**

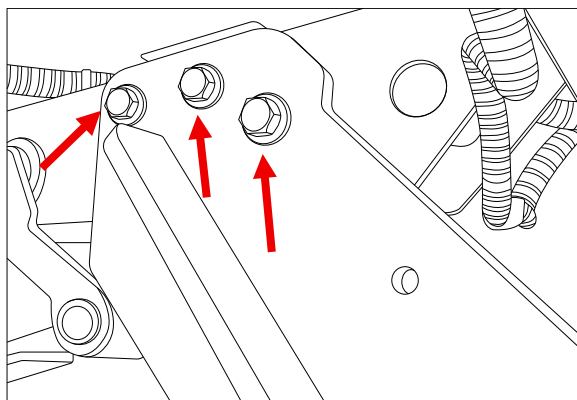
Repeat for the other side.



17. Loosely secure it with 3x M12x1.25 and 3x washers.

Repeat for the other side.

Tools Used:
Ratchet.
18mm socket.

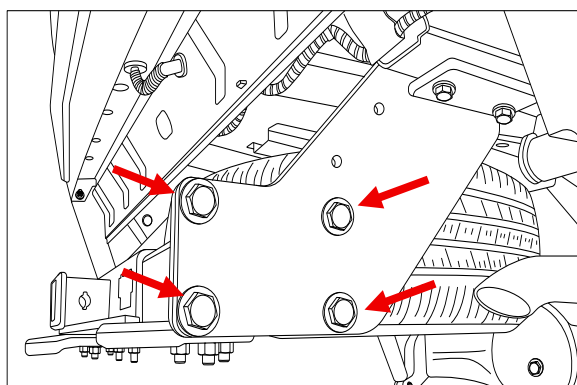


18. Fit the cross tube between the side arms.
Loosely secure it with 4x M14 flange bolts, 4x washers and 4x nut.

Repeat for the other side.

NOTE:

Lifting the tow bar to the vehicle requires two people.



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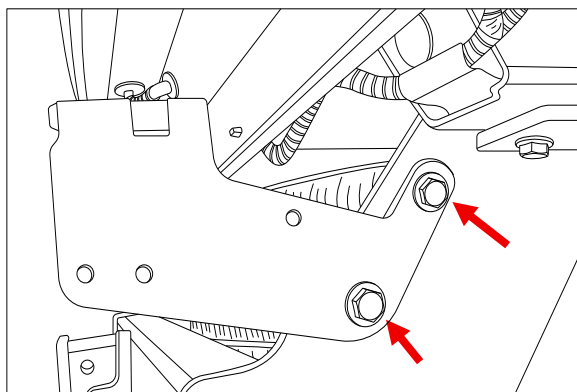
19. Fit the step bracket to tow bar and loosely secure it with 2x M10x 1.5, 4x washers and 2x nuts.

Repeat for the other side.

Tools Used:

Ratchet.

16mm socket.



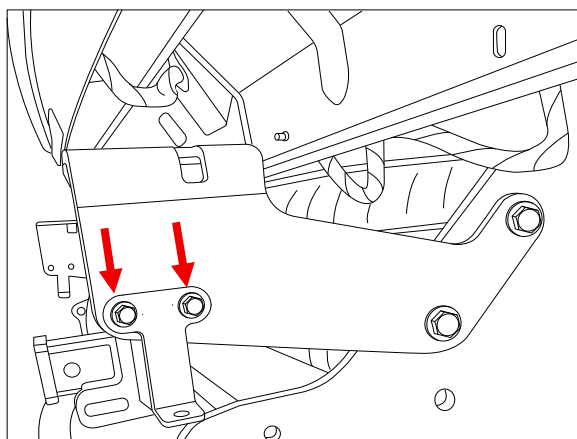
20. Fit the bumper tab bracket to the step bracket and loosely secure it with 2x M6x1.0, 4x washer and 2x nuts.

Repeat for the other side.

Tools Used:

Ratchet.

10mm socket.



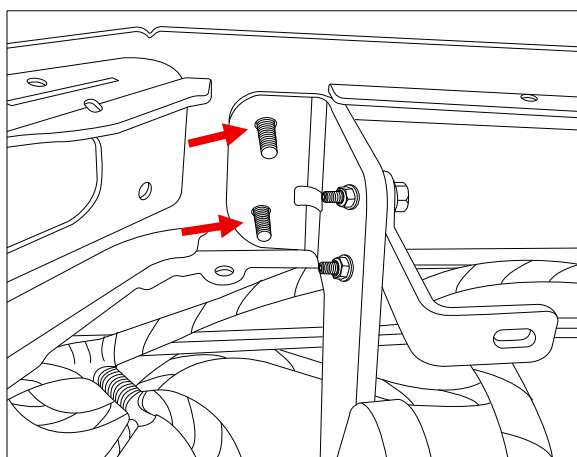
21. Place the bumper frame on top of the step bracket.
Loosely secure it with 2x M8x1.25, 4x washers and 2x M8 nuts.

Repeat for it the other side.

Tools Used:

Ratchet.

13mm socket.



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22. Adjust and centralise the frame to the vehicle.
Loosely secure the bumper support frame with 2x M6x1.0, 4x washers and 2x nuts.

Torque all fastener as below:

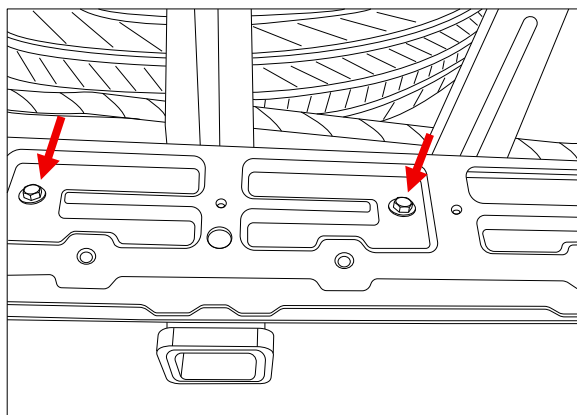
M14 x 2.0P x 10.9 – 100 Nm

M12 x 1.25P x 10.9 - 125 Nm

M10 x 1.5P x 8.8 - 44 Nm

M8 x 1.25P x 8.8 - 22 Nm

M6 x 1.0P x 8.8 - 9 Nm



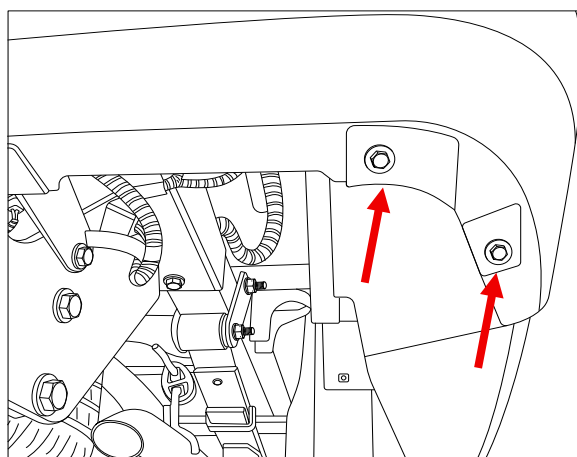
23. Re-assemble the plastic bumper to the bumper frame.
Secure the plastic bumper to the frame with 2x screws retained in **Step 11**.

Repeat for the other side.

Tools Used:

Ratchet.

8mm socket.



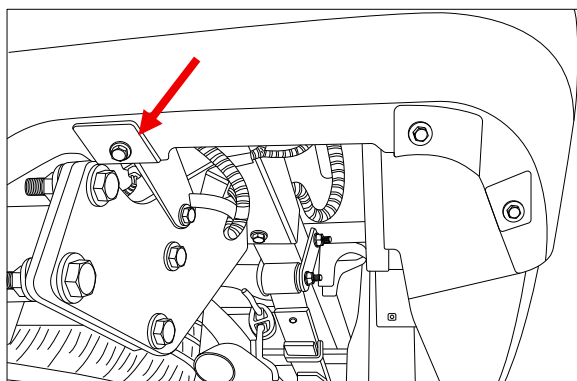
24. Secure the plastic bumper to the frame with 1x M6x1.0P, 2x washer and 1x nut.

Repeat for the other side.

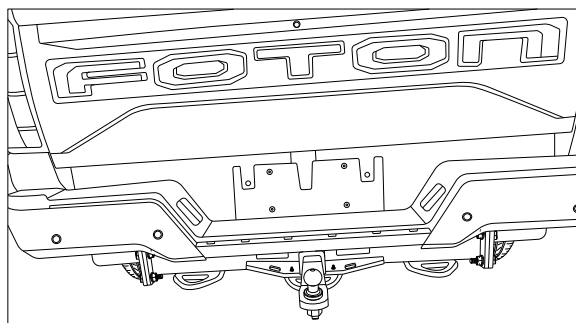
Tools Used:

Ratchet.

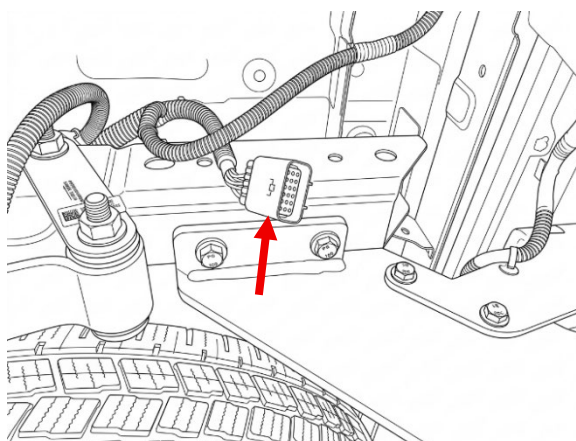
10mm socket.



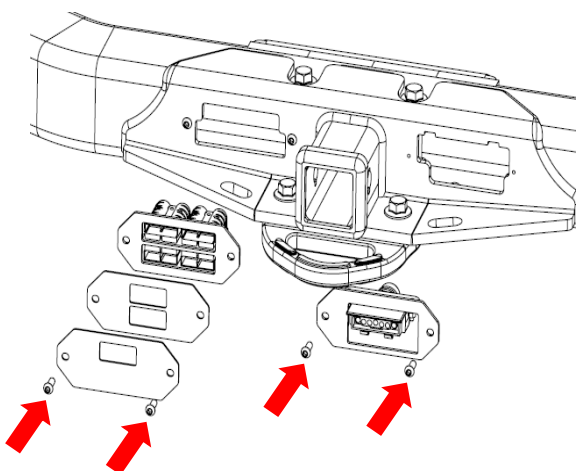
25. Re-assemble all the removed parts, from **Step 3** to **Step 12**, in the reverse order of removal.



26. On the LHS rear of chassis locate the vehicle trailer 16-way pre-wire connector.
27. Remove the blanking plug and discard.



28. Route the wiring through the back of the towbar and use the provided brackets to mount up to 4 x Anderson plugs and 1 x (7 or 12) pin plug.
If fitting a 12pin plug, use the provide M5 washers as spacers to ensure the plug is at the same angle as the mounting plate. This allows the cover to be opened when installed.
Secure each plate to the towbar with 2 x M6 screws.



NOTE: If only 1 or 2 Anderson plugs are used, mount to the centre position on the bracket and fit the appropriate cover plate.



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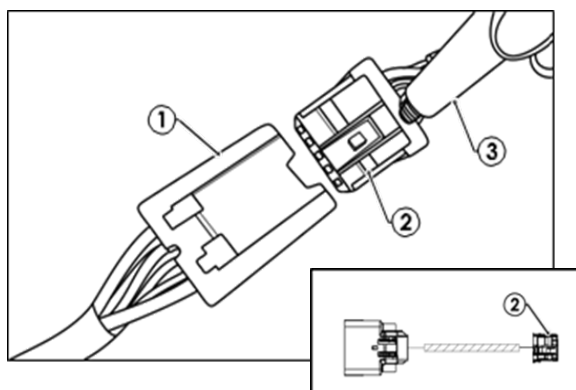
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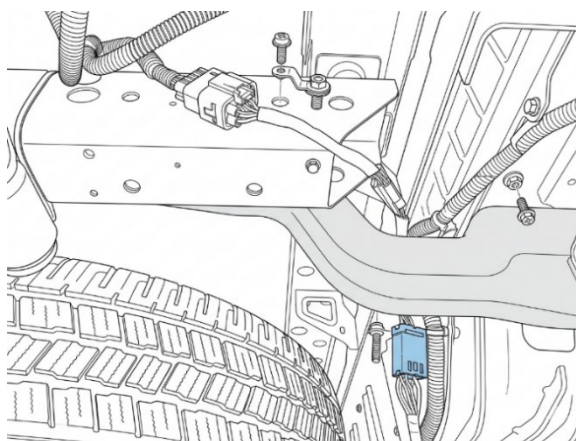
29. Connect the tail harness (1200mm) 8-way connector (1) to the trailer patch 8-way mating connector (2).

Waterproof the trailer patch 8-way connector (1) and the tail harness 8-way male connector (2) using Die-Electric Grease (3).

Plug the trailer patch to vehicle 16-way pre-wire connector.

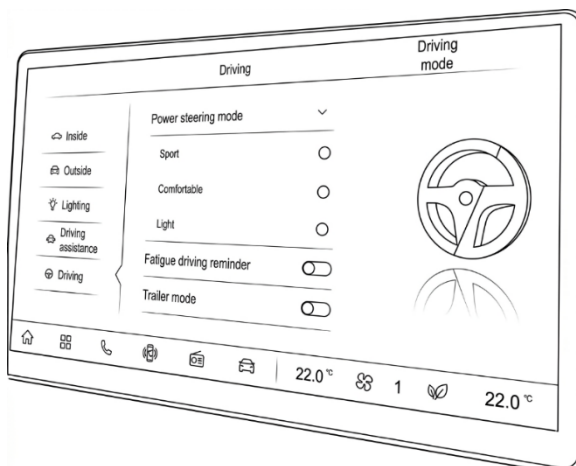


30. Plug the trailer patch to vehicle 16-way pre-wire connector.
31. Secure harness using cable ties (not supplied).
32. Test operation of the Trailer Wiring Harness using test board to ensure correct operation.
33. Place fitting instructions in glovebox when finished.



NOTE:

1. **"Trailer mode" must be enabled for trailer light output.**
2. **Turn Ignition on.**
3. **Access the "Driving menu".**
4. **Scroll down to "Trailer mode" and swipe the slider towards the left.**



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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

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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

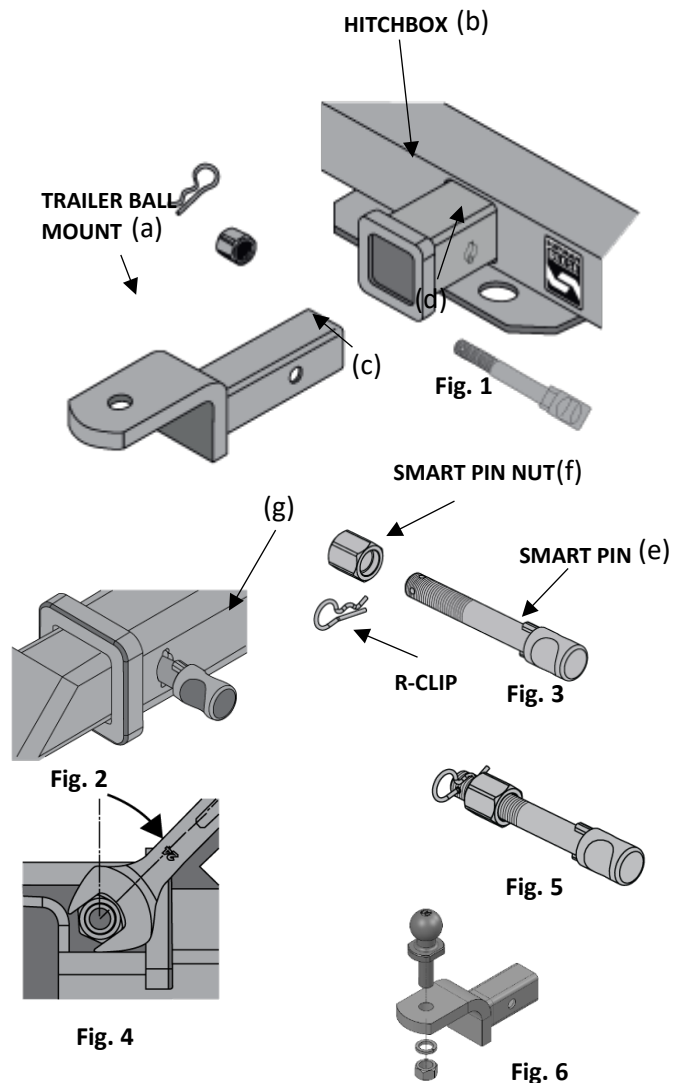
Tighten Smart Pin Nut by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig. 4).

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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