



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03392RW

BMW X5 F15 TOWBAR



PRODUCT DETAILS:

Part Number:	03392RW	Maximum Towing Braked:	2700	kg
ECU Number:	WLE70007	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1800 mm	Maximum Static Ball Load:	270	kg
TBM/Lug Part Number:	21161			
Wiring Part Number:	WLL90007			

FITTING DETAILS:

Towbar Installation Time:	90 Mins.	Hayman Reese SmartCODE Solution Required:	NO
Wiring Installation Time:	40 Mins.	RPA Disable/Other:	YES
Total Installation Time:	130 Mins.		
Bumper Cut Required:	Yes		

Note:

- The Hayman Reese wiring solution supports OE functionality refer to owner's manual for more information.
- Electric Brake = Blue wire taped back next to the blue connector.



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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).

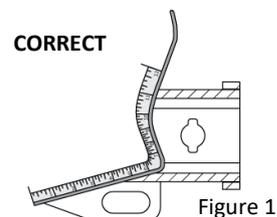


Figure 1

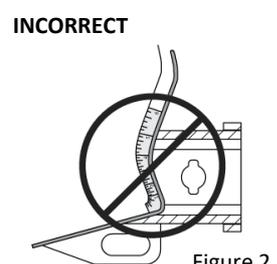


Figure 2

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

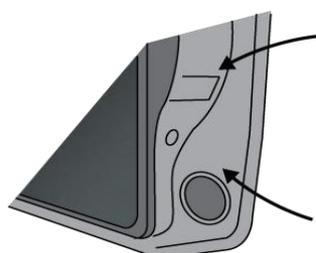
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

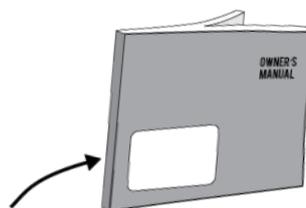
Product Labels

- 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.

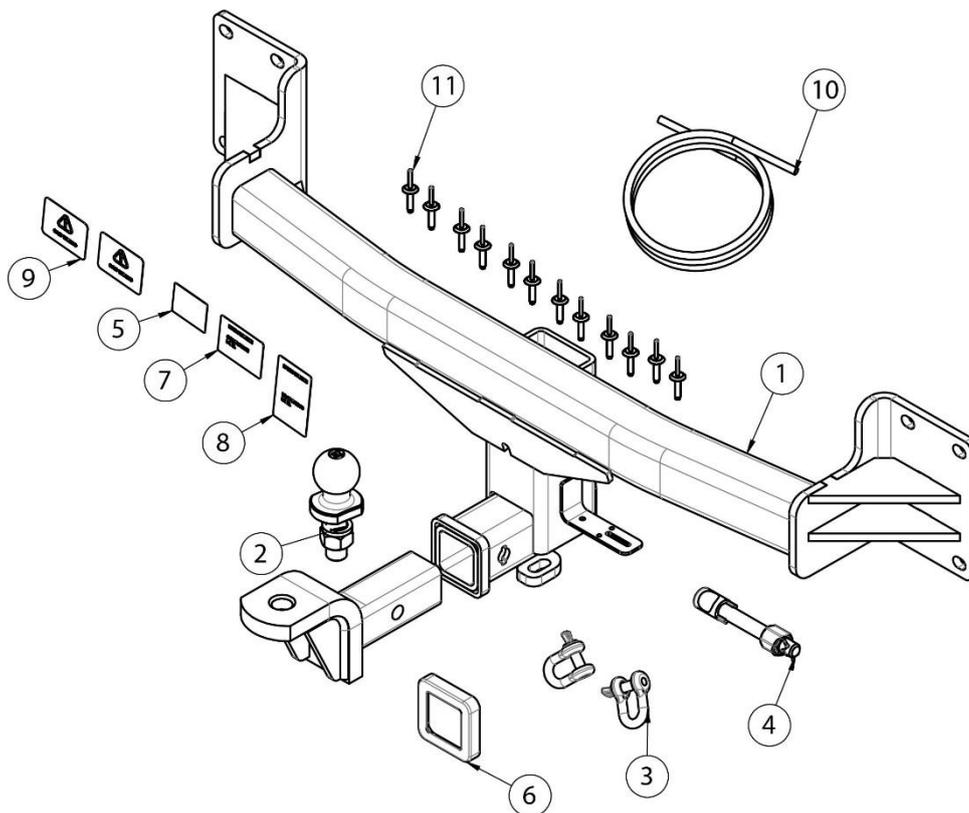


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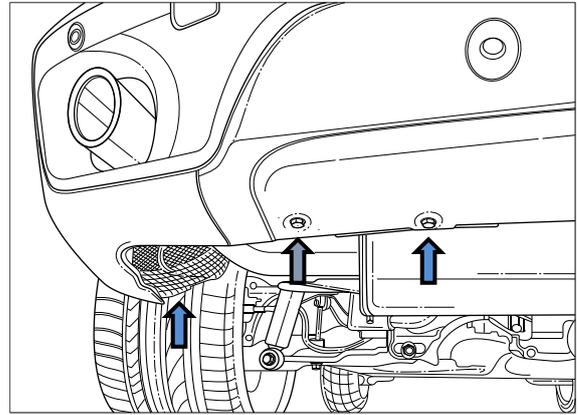
i TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	BMW X5/X6 MY14 TOWBAR	1
2	TOWBALL 50mm	1
3	"D" SHACKLE 10mm	2
4	SMART PIN GOLD	1
5	HAYMAN REESE LOGO STICKER	1
6	HITCH BOX COLLAR COVER	1
7	COMPLIANCE LABEL	1
8	LOAD RATING LABEL	1
9	CAN MODULE WARNING LABEL	2
10	WIRING LOOM	1
11	POP RIVET K	12

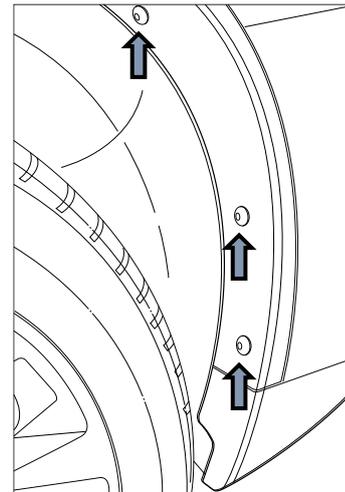
1. Remove 3 screws from under the RHS of the bumper.

Repeat for LHS.



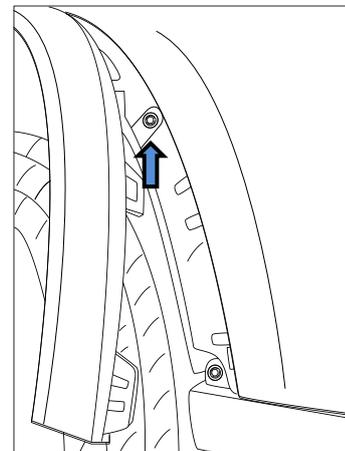
2. Remove 3 plastic rivets under rear wheel arch on the RHS by pushing in the centre pin.

Repeat for LHS.



3. Lift open wheel flare guard then remove 1 screw holding the bumper behind the flare guard.

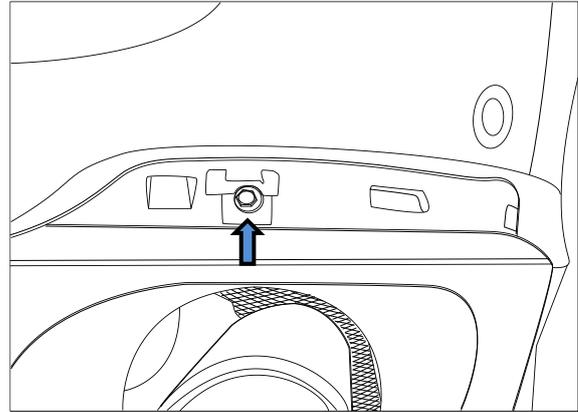
Repeat for LHS.



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4. Remove rear reflector on the bumper fascia on the RHS to expose the Screw.

Remove the Screw.

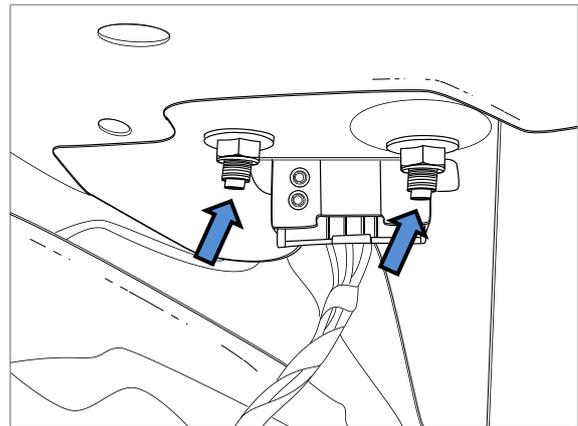
Repeat for LHS.



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5. Open tailgate and remove from inside of the vehicle 2 flange nuts securing the RHS taillight to the vehicle.

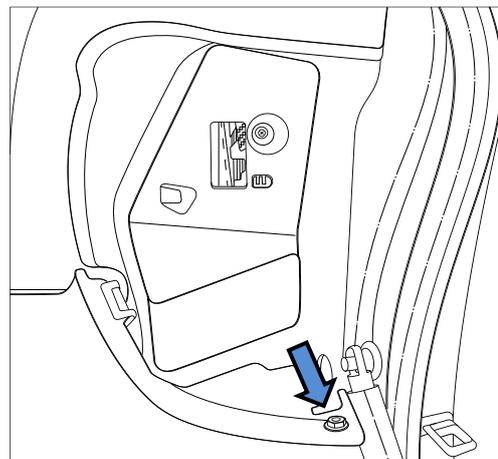
Disconnect the connector and remove the taillight assembly.

Repeat for LHS.



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6. Remove Screw located in taillight bumper cavity.

Repeat for LHS.





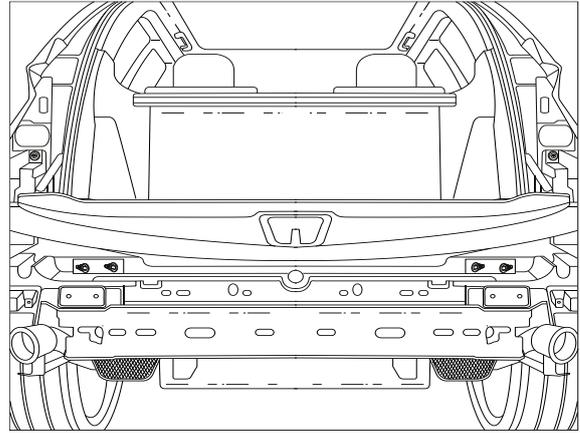
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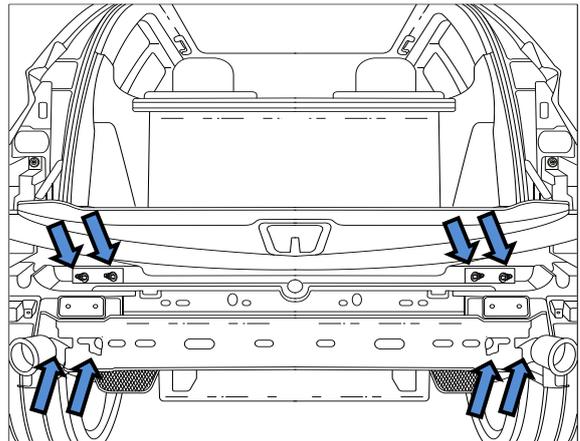
7. Remove bumper from the car.

Ensure any wiring is disconnected.



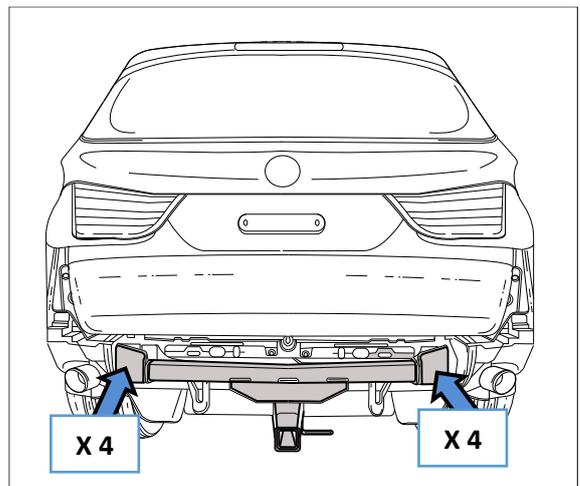
8. Remove 8 Nuts holding impact beam and retain nuts for reuse.

Remove and discard impact beam.



9. Fit Towbar into impact beam mounting points, secure with nuts retained from impact beam.

Torque all nuts to specifications:
M12 x 1.25 – 125 Nm





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10. Refit bumper and wheel flares using plastic rivet provided.

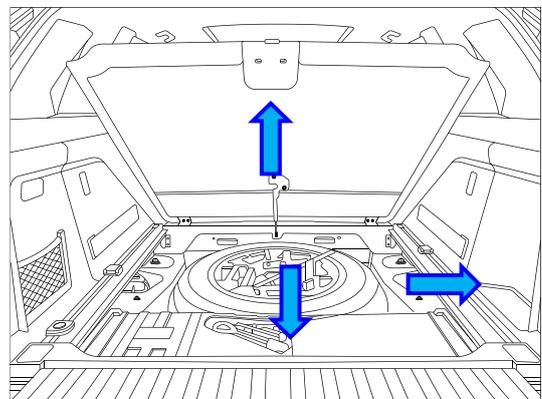


IMPORTANT

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.

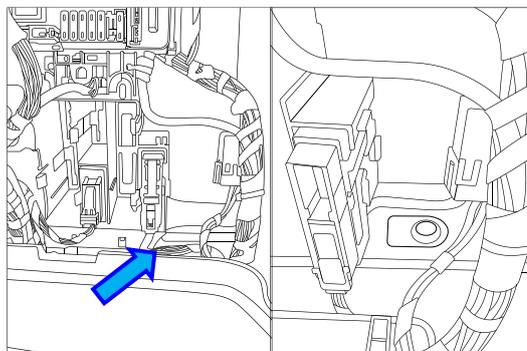
11. Open the tailgate and remove the keys.
12. Lift the floor access panel.
13. Remove the battery cover to access the battery and disconnect the negative battery terminal.
14. Remove the rear RHS fuse access panel.

Note: Battery must be disconnected to avoid damage to vehicle CAN network system.

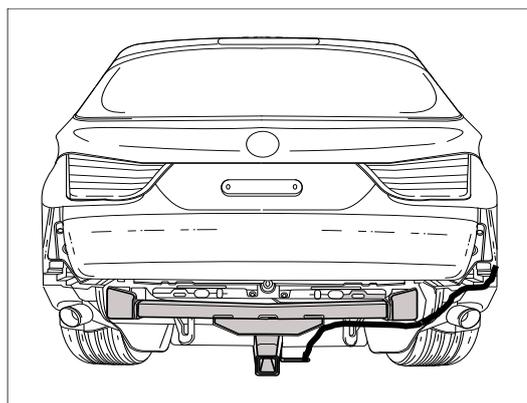


15. Locate the vehicle \varnothing 25mm blanking grommet by lifting the interior underlay.
16. Drill out the hole to \varnothing 30mm.

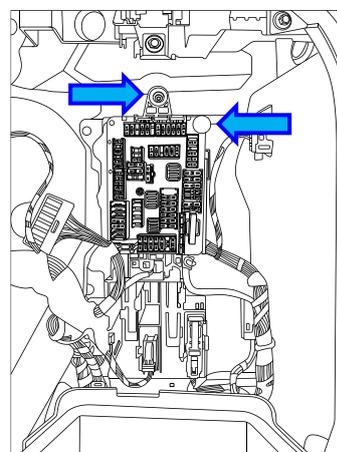
Note: Remove all sharp edges and spray rust inhibitor.



17. From outside mount the tail harness (1800mm) trailer socket to the plug bracket.
18. Route and secure the tail harness along the towbar towards the previously drilled hole.
19. Slide the grommet to desired location and secure the grommet to the tail harness using supplied cable tie. Feed the connector through the previously drilled hole **ensure the grommet is seated properly.**



20. Remove the bolt securing the fuse box.
21. Unclip the petrol emergency release cable.
22. Slide the fuse box up and tilt forward to access the rear side.



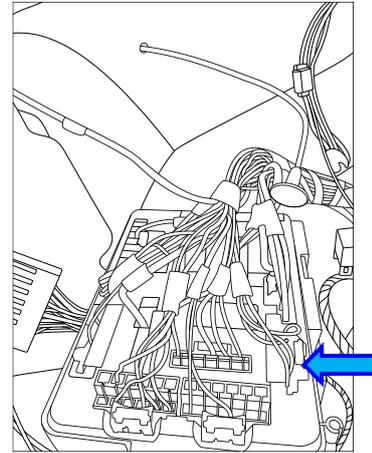


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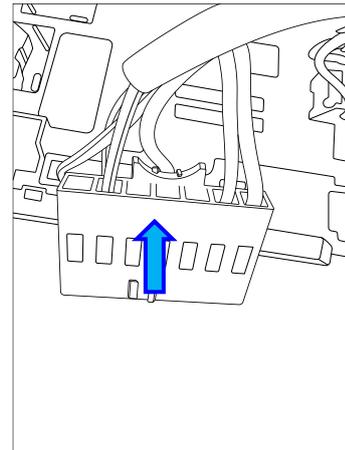
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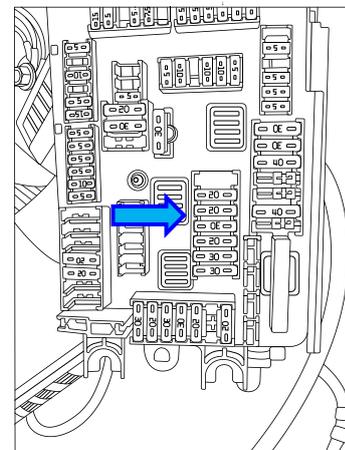
23. Locate the 7- way burgundy connector and remove by releasing the red TAB first.



24. Locate the trailer patch (WLL90007) red/blue wire position H and insert into cavity 6.
25. Re-insert the connector back into the fuse box and place the fuse box into its original position.



26. If there is 30amp fuse in cavity 113 take it out and discard it.
27. Insert 20amp supplied fuse in its place.



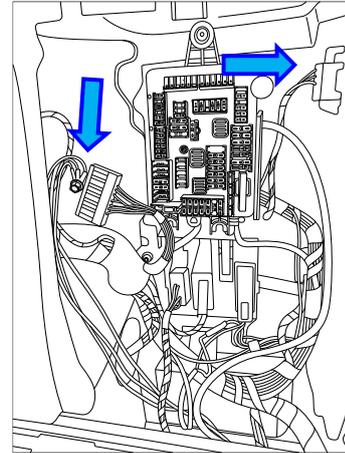


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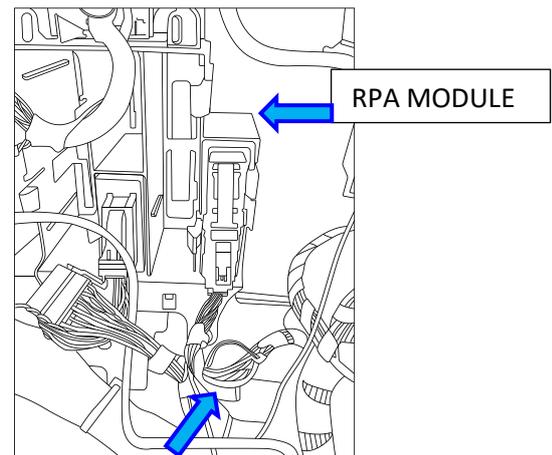
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28. Locate the trailer patch harness (WLL90007) ground ring terminals position F and secure to vehicle ground point.
29. Locate the trailer patch harness (WLL90007) black/yellow wire position D and run it towards the rear taillight connector, connect this wire using the supplied wiretap (item 5) to the vehicle brake wire black/blue cavity 2.

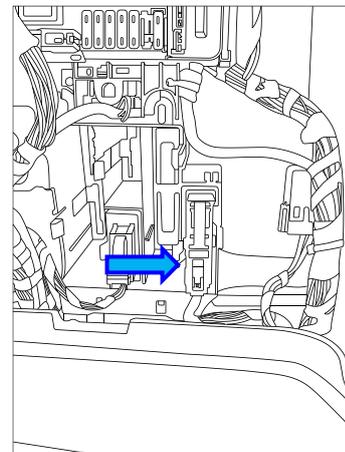


30. Locate the trailer patch harness (WLL90007) orange wire position E and run it towards the vehicle Rear Park Assist (RPA) module locate the green/white ignition wire connect this wire using the supplied wiretap (item 5).



31. Locate the 18-way black RPA module connector and remove from the ECU by pushing in the TAB to release the lever.
32. Locate the 3-way female connector position C1 that is taped to the trailer patch harness (WLL90007).

Note: This will be used in step 34.



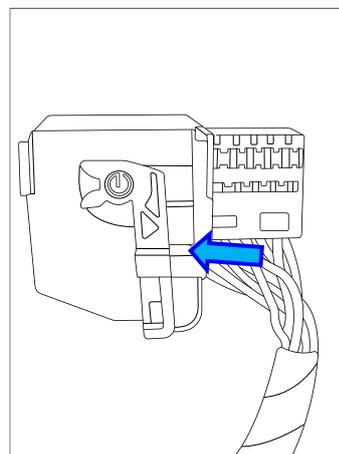


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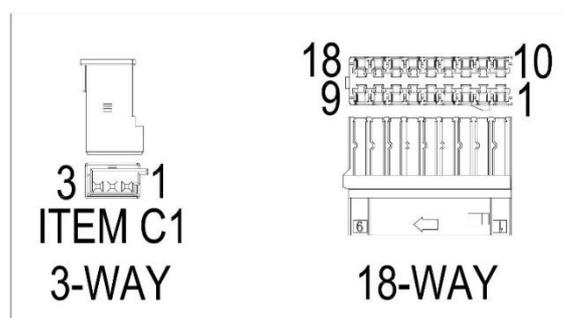
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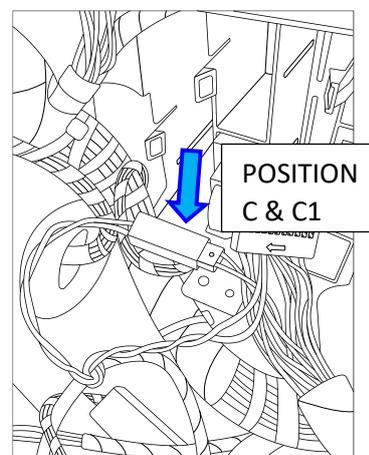
33. Using a jeweller's screw driver release the tab to remove the outer shell of the 18-way connector.



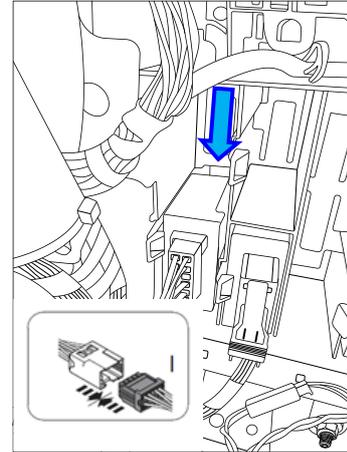
34. Using a jeweller's screw driver un-house yellow/brown (CAN LOW) wire from terminal 6 (by pressing down on the terminal tab) and insert it in the supplied 3-way female connector (item C1) cavity 1.
35. Using a jeweller's screw driver un-house yellow/red (CAN HIGH) wire from terminal 15 (by pressing down on the terminal tab) and insert it in the supplied 3-way female connector (item C1) cavity 3.



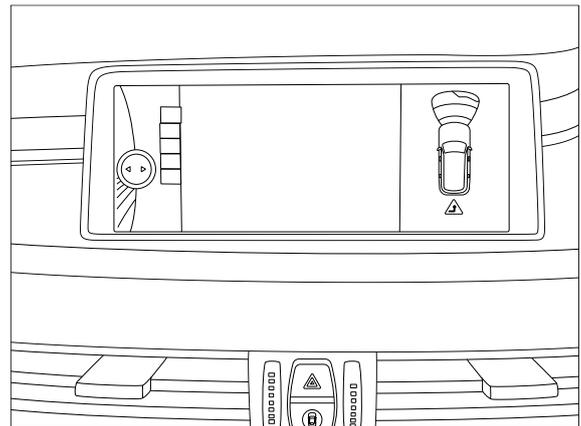
36. Locate the trailer patch harness WLL90007 green wire position B and insert into the vehicle 18-way connector cavity 6.
37. Locate the trailer patch harness WLL90007 red/white wire position B and insert into the vehicle 18-way connector cavity 15.
38. Slide the female connector back into its previously removed shell and insert back into the vehicles RPA module.
39. Locate the trailer patch harness WLL90007 3-way male connector position C and mate it to the 3-way female connector position C1.



40. Locate the trailer ECU item 4 (WLL70007) plug it into the trailer patch harness (WLL90007) 14-way connector position A.
41. Place the ECU into vehicle ecu cavity.
42. Locate the previously fed tail harness 8-way male connector and plug into the trailer patch harness (WLL90007) position G.



43. Secure the harness using cables ties and refit all parts.
44. Refit the bumper fascia.
45. Reconnect the battery.
46. Test the vehicle using a trailer board tester.
47. **Ensure that all trailer lights function, the vehicle (*RPA disables, and the towbar symbol is displayed on the screen when trailer plug is connected).**





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.



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.

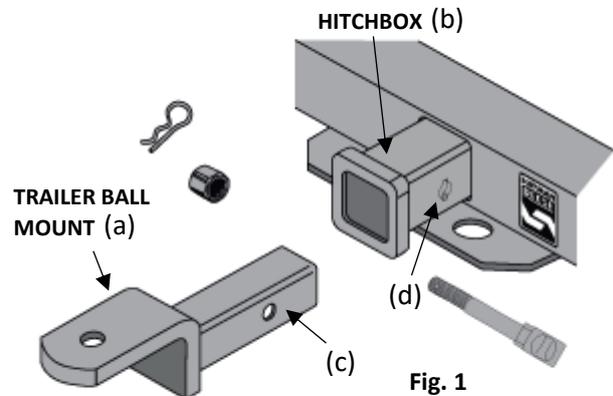
i Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- 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

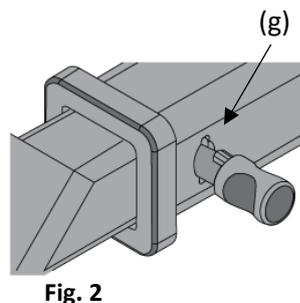
STEP 1

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



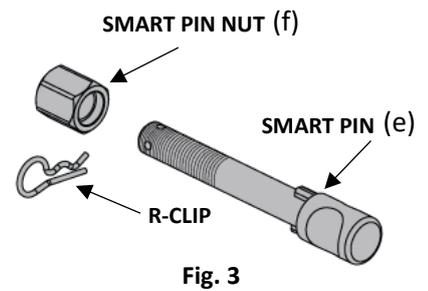
STEP 2

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)



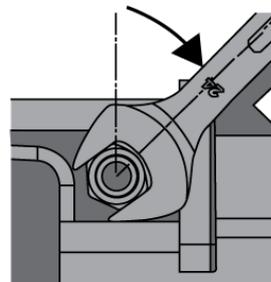
STEP 3

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.



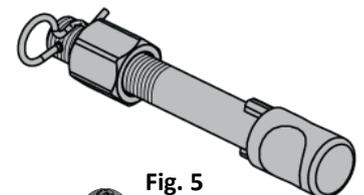
STEP 4

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).

