



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03522RW

GMW TANK 500



PRODUCT DETAILS:

Part Number:	03522RW	Maximum Towing Braked:	3000	kg
ECU Number:	N/A	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	SEE NOTE	Maximum Static Ball Load:	300	kg
TBM/Lug Part Number:	21386			
Wiring Part Number:	107093-WL			

FITTING DETAILS:

Towbar Installation Time:	90 Mins.	Hayman Reese SmartCODE Solution Required:	NO
Wiring Installation Time:	10 Mins.	RPA Disable/Other:	YES
Total Installation Time:	100 Mins.	Note:	
Bumper Cut Required:	Yes		

- Please refer vehicles owner's manual for proper operation and understanding of towing features.
- 04943 N.O Tail Harness must be used for correct operation.



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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).

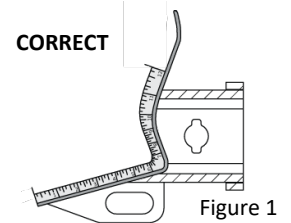


Figure 1

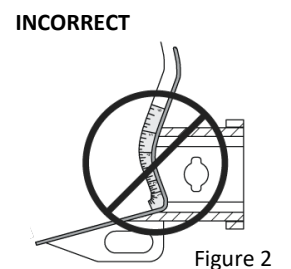


Figure 2

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

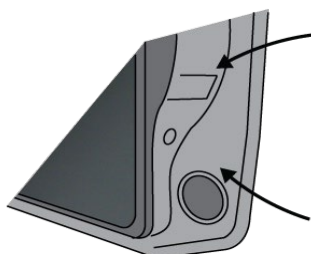
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

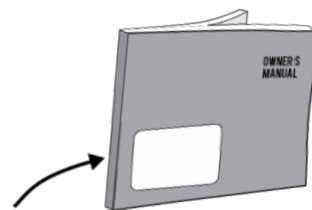
Product Labels

- 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.

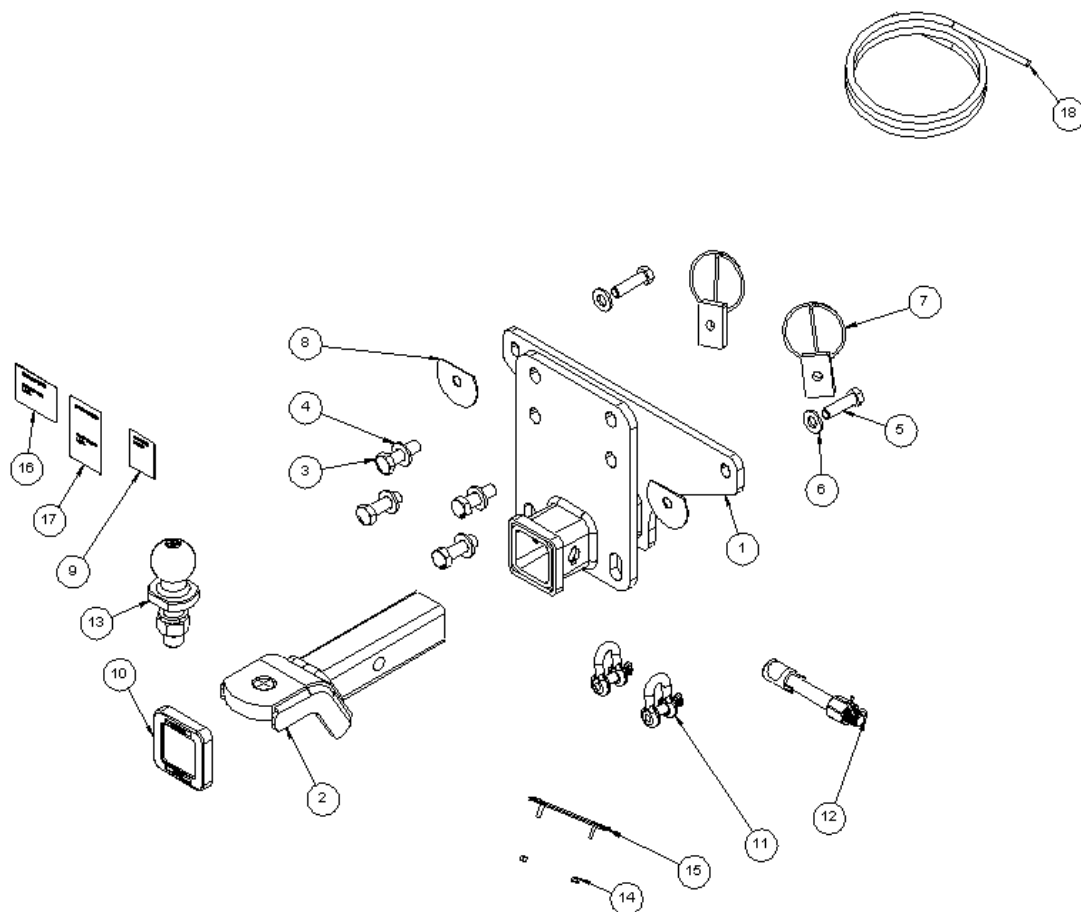


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i TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	GWM TANK 500 WELDED ASSEMBLY	1
2	TRAILER BALL MOUNT	1
3	SCREW HEX HD M14x45x1.5P G10.9	4
4	WASHER PLAIN M14x28x3.0mm	4
5	BOLT HEX HD M12x45x1.25P G8.8	2
6	WASHER PLAIN M12x27x3.0mm	2
7	NUT PLATE WIRE M12x1.25P	2
8	SPACER 1.6mm	2
9	HAYMAN REESE LOGO STICKER	1

ITEM	DESCRIPTION	QTY
10	HITCH BOX COLLAR COVER	1
11	D-SHACKLE 10mm	2
12	SMART PIN GOLD	1
13	TOWBALL 50mm	1
14	NUT NYLOC HEX HD M4x0.7P G8	2
15	PLUG BRACKET	1
16	COMPLIANCE LABEL	1
17	LOAD RATING LABEL	1
18	WIRE LOOM	1



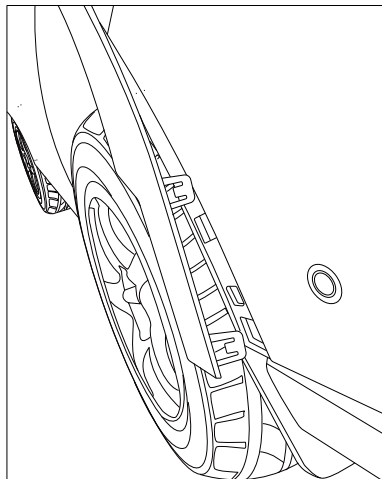
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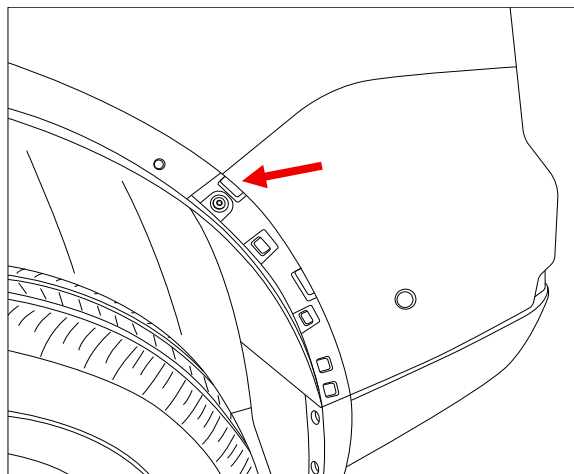
1. Carefully unclip the wheel arch.

Repeat for the other side.



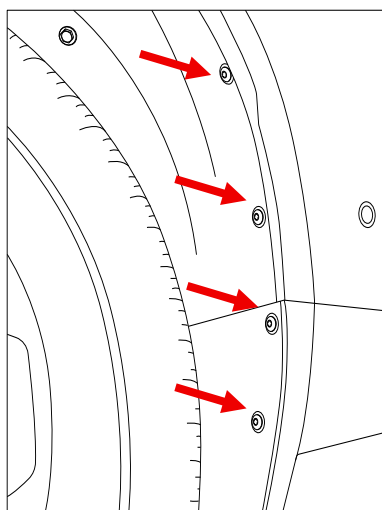
2. Remove and retain 1x screw on the bumper.

Repeat for the other side.



3. Remove and retain 4x screws.

Repeat for the other side.





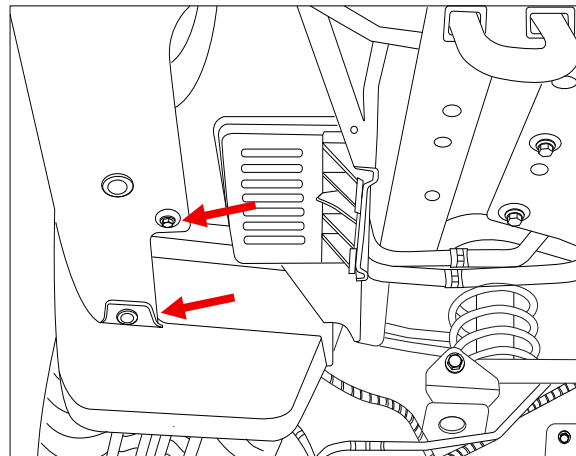
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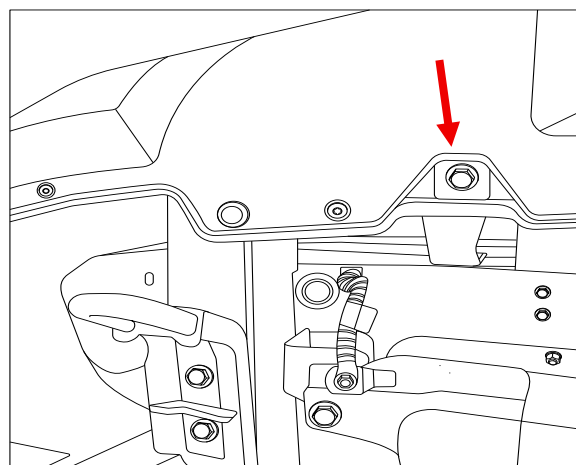
4. Remove and retain 1x scrivet and 1x screw behind the mud guard.

Repeat for the other side.

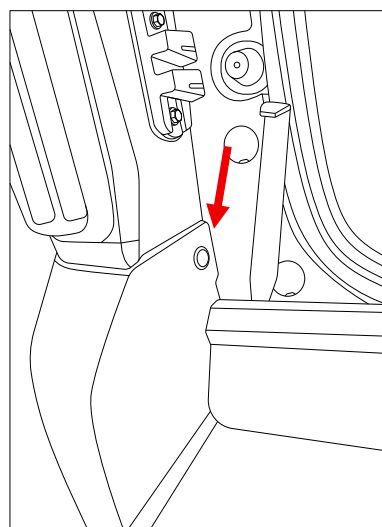


5. Remove and retain 1x screw under the bumper.

Repeat for the other side



6. Open the tail gate.
Remove the bumper cover.
Remove and retain 1x scrivet.



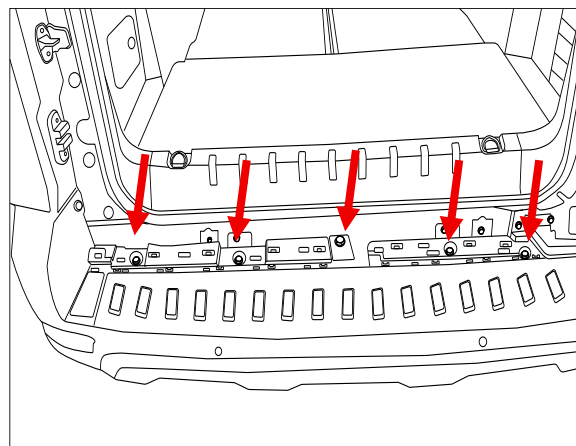


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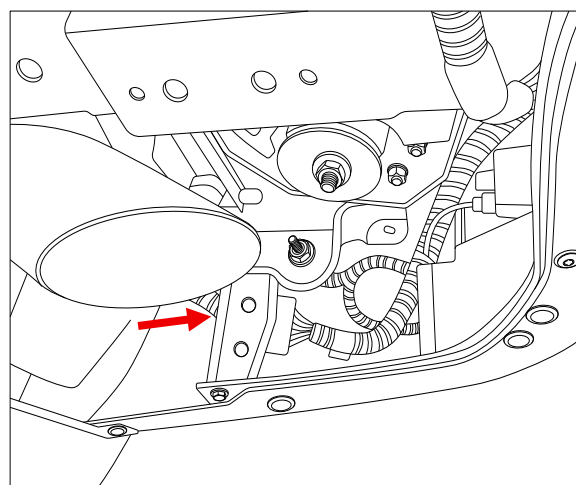
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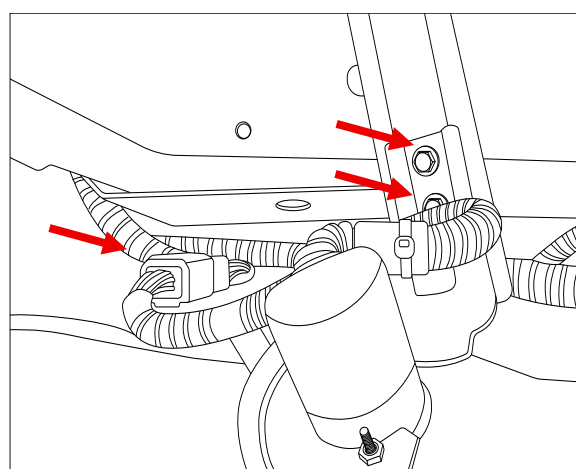
7. Remove and retain 5x screws



8. On the rear RHS locate and disconnect the bumper harness.



9. Disconnect factory Trailer Socket 16-way connector.
10. Remove and discard the factory plug bracket 2x screws and socket.



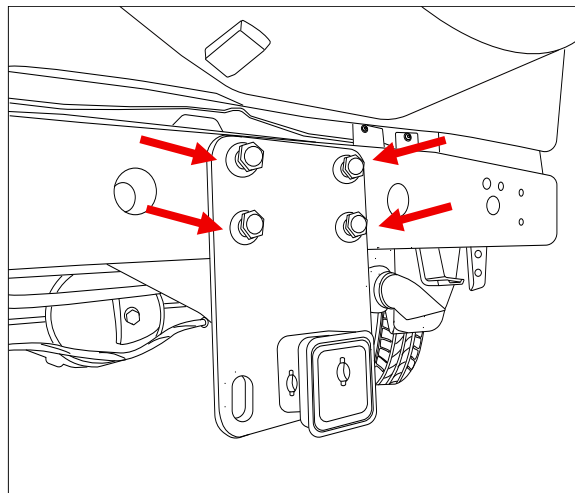


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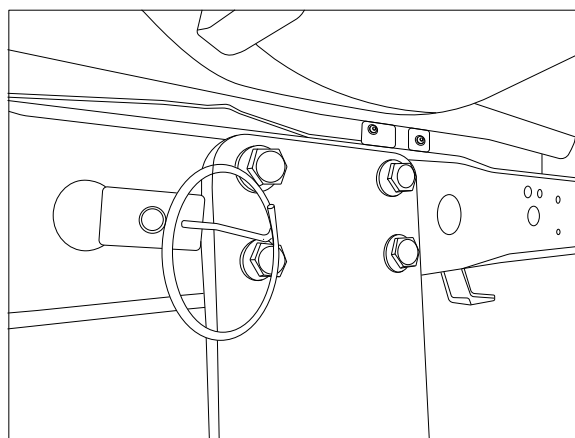
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11. Fit tow bar to the vehicle cross beam.
Loosely secure it with 4x M14x10.9 bolts and
4x washers.



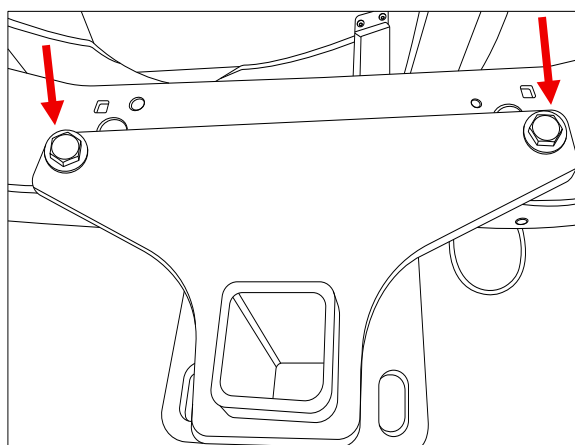
12. Insert 1x M12 nut plate in the hole.

Repeat it for the other side.



13. Insert 2x M12x8.8 bolts and 2x washers into
towbar.
Tighten them with the 2x M12 nut plates.

Torque the fasteners as follows:
M14 x 1.5P x CL10.9 = 196 Nm
M12 x 1.25P x CL8.8 = 89 Nm





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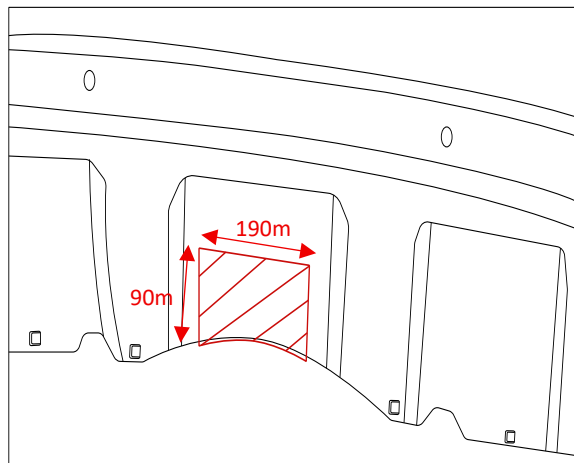
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- Place masking tape on the bumper outer skin. Mark and cut out an area, 190mm x 90mm, from the center of the bumper.



NOTE:

Remove any wiring in the cut-out area.

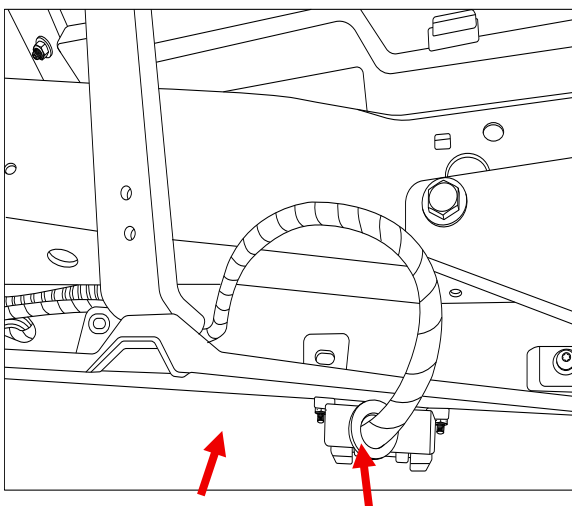


- Re-assemble all the removed parts, from Step 1 to 8, in the reverse order of removal.

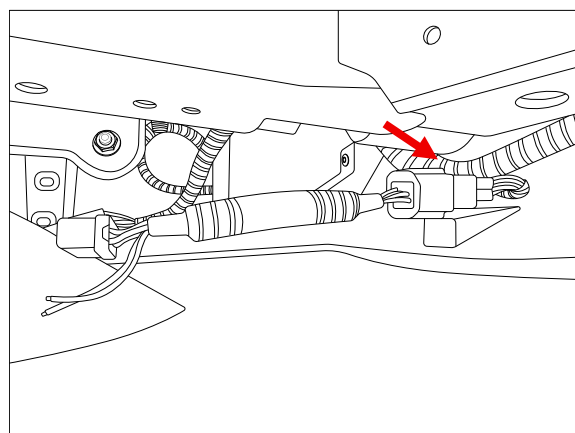
Locate the plug bracket and ensure the harness cable length is long enough
Drill 2x \varnothing 5mm holes 69mm apart.

Fit the plug bracket in the holes between the bumper inner and outer skin.

Secure the trailer socket (1200mm) to the plug bracket.



- Connect the trailer patch harness to the vehicle 16-way connector.





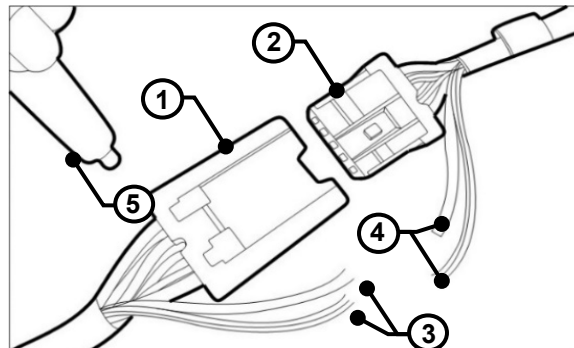
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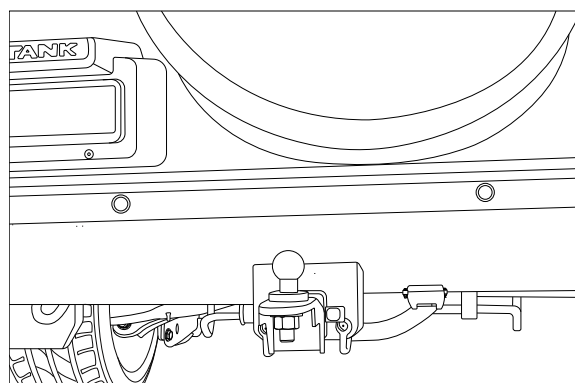
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17. Connect the tail harness 8-way connector (1) to the trailer patch 8-way mating connector (2).
18. Crimp the tail harness GREY and GREY/BLACK wires (3) to the trailer patch matching GREY and GREY/BLACK wires (4).

Apply silicone grease (not supplied) (5) to waterproof the connectors.



19. Test the trailer patch function using a light board.
Secure harness and ensure to keep away from exhaust using cable tie (not supplied).
Place fitting instructions in glovebox after fitment.





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**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.

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.

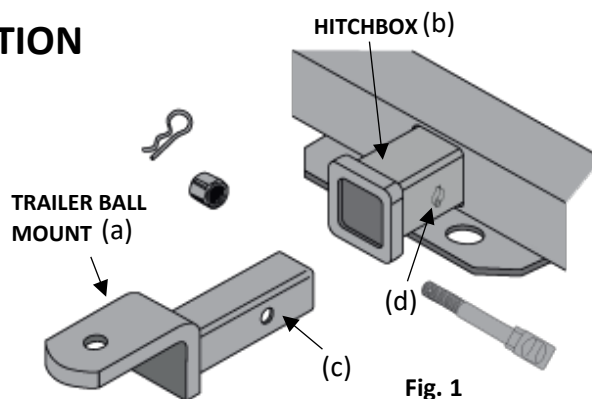
i Regularly inspect for wear and check the tightness of the Silent Anti-Rattle Hitch Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- Before towing, ensure R-Clip is properly installed and Silent Anti-Rattle Hitch Pin Nut is installed and tensioned. Replacement parts are available from your Hayman Reese Distributor.

TOWBALL MOUNT REMOVAL/INSTALLATION

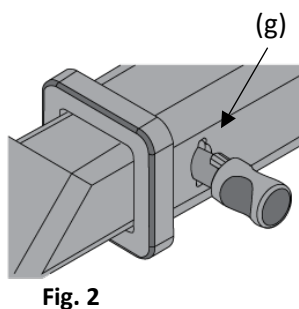
STEP 1

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



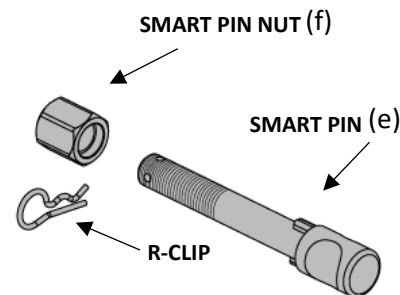
STEP 2

Insert Silent Anti-Rattle Hitch 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)



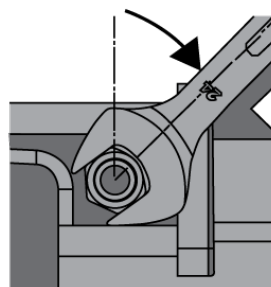
STEP 3

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



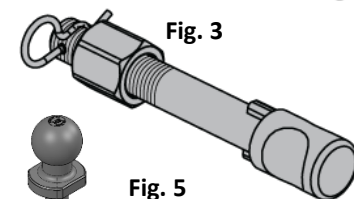
STEP 4

Tighten Silent Anti-Rattle Hitch 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 Silent Anti-Rattle Hitch 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).

