



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03651R

GWM CANNON ALPHA TOWBAR



PRODUCT DETAILS:

Part Number:	03651R	Maximum Towing Braked:	3500	kg
ECU Number:	N/A	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	N/A	Maximum Static Ball Load:	350	kg
TBM/Lug Part Number:	21418			
Wiring Part Number:	N/A			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Hayman Reese SmartCODE Solution Required:	NO
Wiring Installation Time:	N/A	RPA Disable/Other:	YES
Total Installation Time:	60 Mins.		
Bumper Cut Required:	NO		

Note:

- Please refer vehicles owner's manual for proper operation and understanding of towing features enabled.
- Vehicle comes fitted 12 pin trailer sockets.



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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).

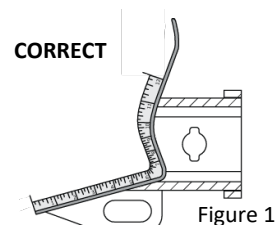


Figure 1

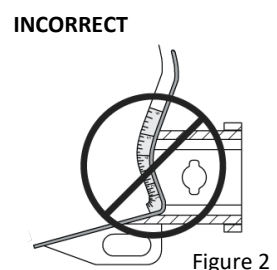


Figure 2

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

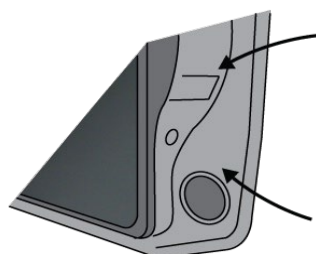
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same thread pitch and grade class are used.



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.

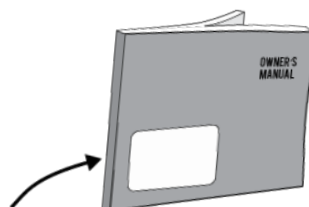
Product Labels

- 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.



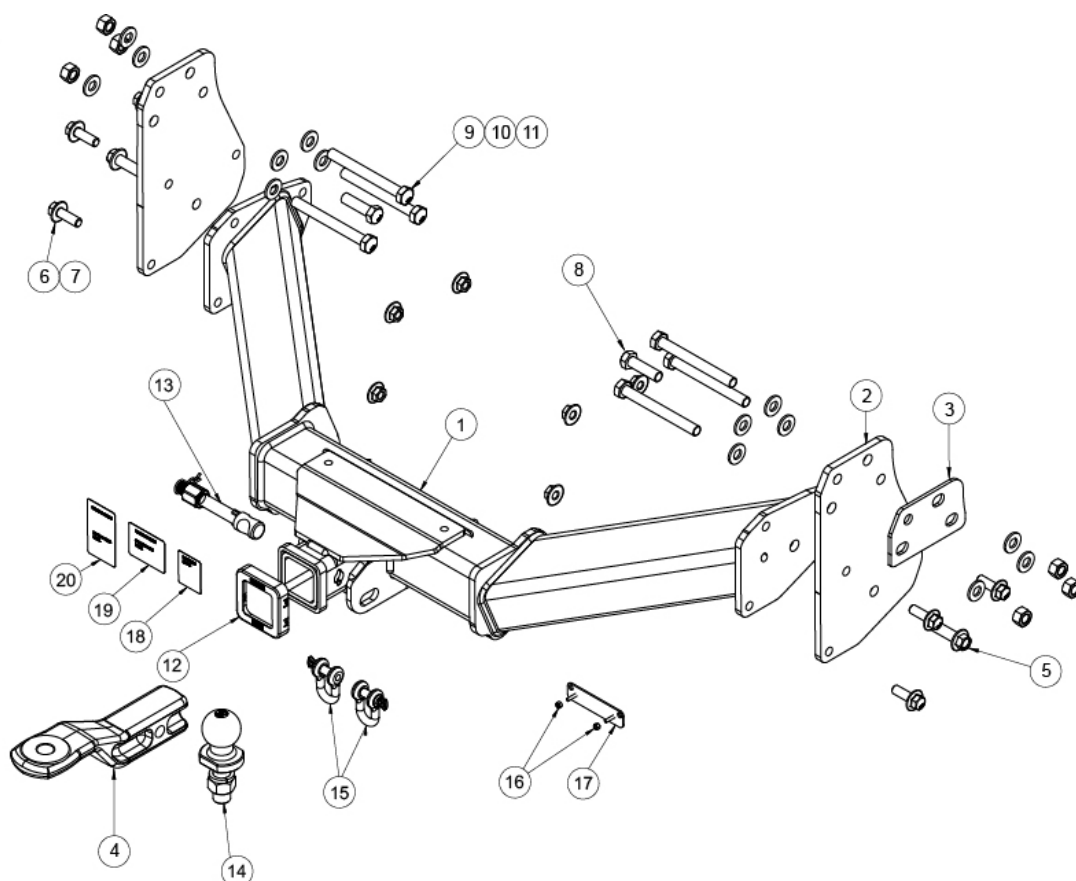
TOWBAR

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TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	TOWBAR WELDED ASSY	1
2	SIDE ARM	2
3	SPACER 5mm	1
4	TRAILER BALL MOUNT	1
5	BOLT HEX FLANGE M14x50x2.0P G10.9	2
6	BOLT HEX FLANGE M12x35x1.25P G10.9	6
7	NUT FLANGE M12x1.25P G10	6
8	SCREW HEX HD M14x50x1.5P G10.9	2
9	BOLT HEX HD M14x130x2.0P G10.9	6
10	WASHER PLAIN M14x28x3.0mm	14

ITEM	DESCRIPTION	QTY
11	NUT HEX HD M14x2.0P G10	6
12	HITCH BOX COLLAR COVER	1
13	SMART PIN GOLD	1
14	TOWBALL 50mm	1
15	D-SHACKLE 10mm	2
16	NUT NYLOC HEX HD M4x0.7P G8	2
17	PLUG BRACKET	1
18	HAYMAN REESE LOGO STICKER	1
19	COMPLIANCE LABEL	1
20	LOAD RATING LABEL	1



TOWBAR

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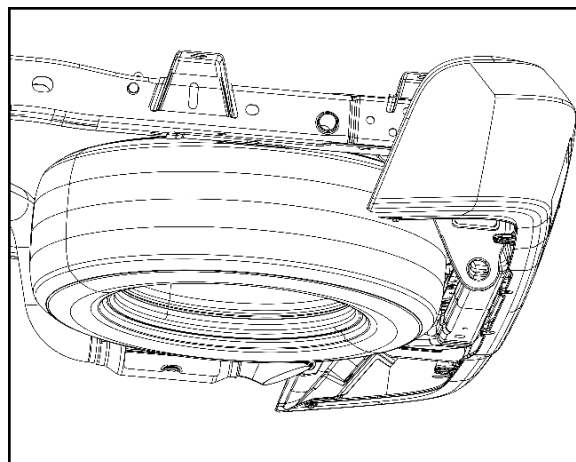
GWM CANNON ALPHA TOWBAR

1. Gain access to the rear underside of the vehicle.

Important

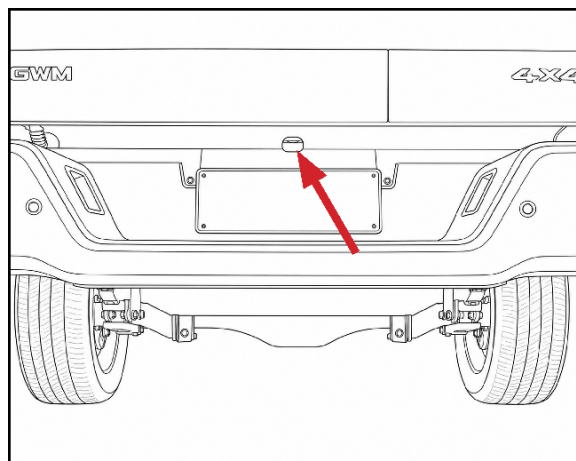


Always refer to the vehicle's Workshop Manual when removing vehicle components.



2. Access point for spare wheel lowering mechanism is as shown in the photo.

Remove spare wheel from vehicle using tools from vehicle cabin.



3. Gain access to the LHS rear inner chassis under the rear bumper, remove and discard 3 x fasteners (1) attaching bumper to chassis as shown.

Leave fastener (2) in place.

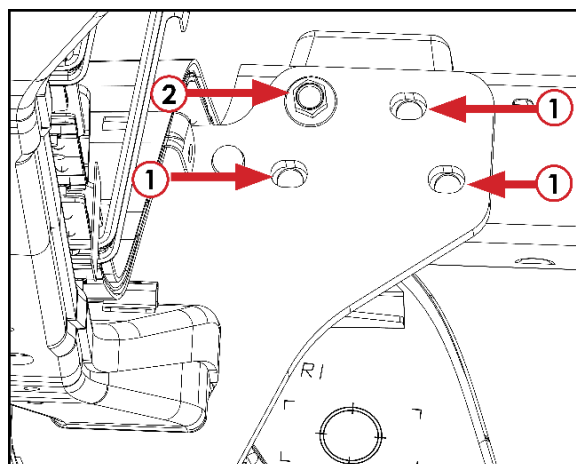
Important



Only undo one side of bumper at a time.
One bolt must remain in place to secure the bumper.

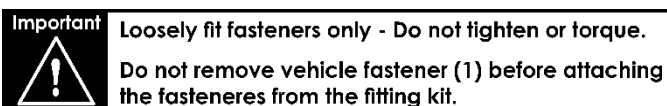
Tools Used:

- Socket (17mm, 18mm, 21mm)
- Ratchet



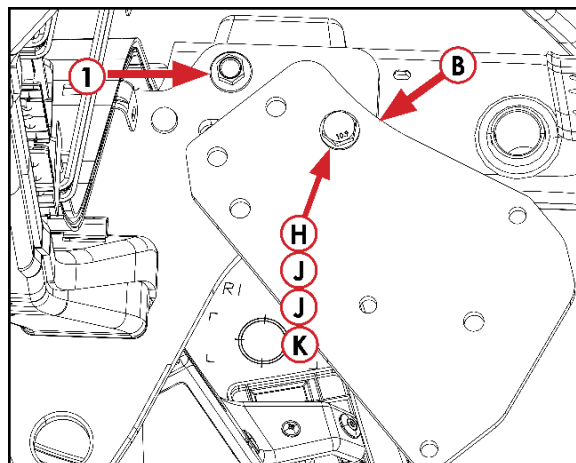
4. Mount the Towbar Sidearm (B) to bumper mount inner face using 1x M14 x 130mm hex bolts (H), 2x washers (J) and 1x M14 nuts (K).

Rotate Towbar Sidearm (B) and remove the remaining vehicle fastener (1).

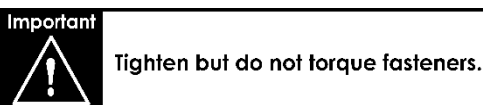


Tools Used:

- Socket (21mm)
- Ratchet

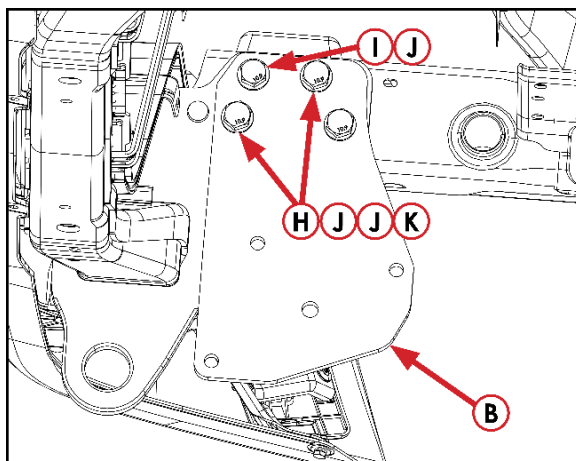


5. Complete the mounting of the Towbar Sidearm (B) to the bumper mount inner face using 1x M14 x 50mm hex bolt (I), 2x M14 x 130mm hex bolts (H), 5x washers (J) and 2x M14 nuts (K).



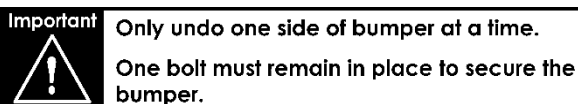
Tools Used:

- Socket (21mm)
- Ratchet



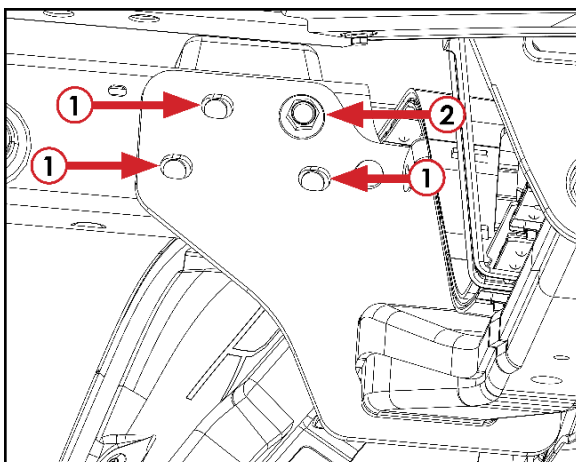
6. Gain access to the RHS rear inner chassis under the rear bumper, remove and discard 3 x fasteners (1) attaching bumper to chassis as shown.

Leave fastener (2) in place.



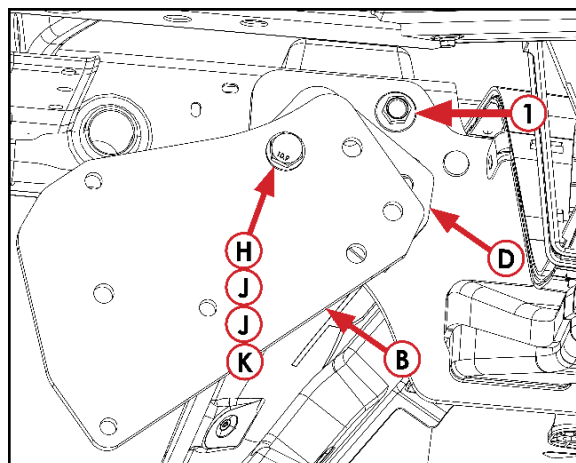
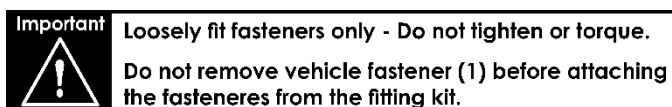
Tools Used:

- Socket (17mm, 18mm, 21mm)
- Ratchet



7. Mount the Towbar Sidearm (B) to the vehicle chassis by inserting the provided 5mm spacer (D - IF REQUIRED) between Towbar Sidearm (B) and bumper mount and fasten using 1x M14 x 130mm hex bolts (H), 2x washers (J) and 1x M14 nuts (K).

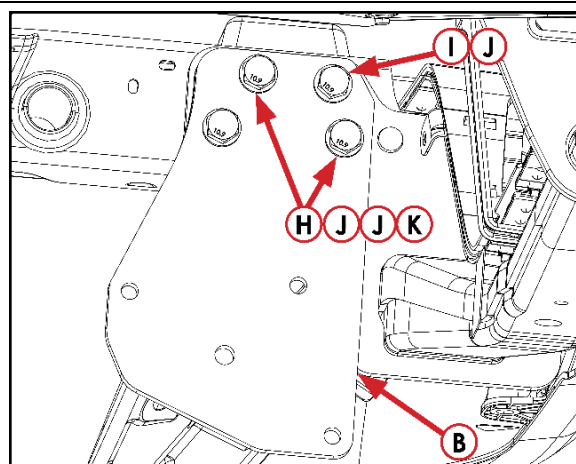
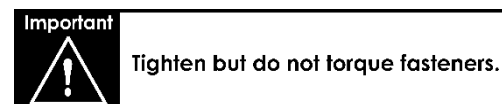
Rotate Towbar Sidearm (B) and remove the remaining vehicle fastener (1).



Tools Used:

- Socket (21mm)
- Ratchet

8. Complete the mounting of the Towbar Sidearm (B) to the bumper mount inner face using 1x M14 x 50mm hex bolt (I), 2x M14 x 130mm hex bolts (H), 5x washers (J) and 2x M14 nuts (K).



Tools Used:

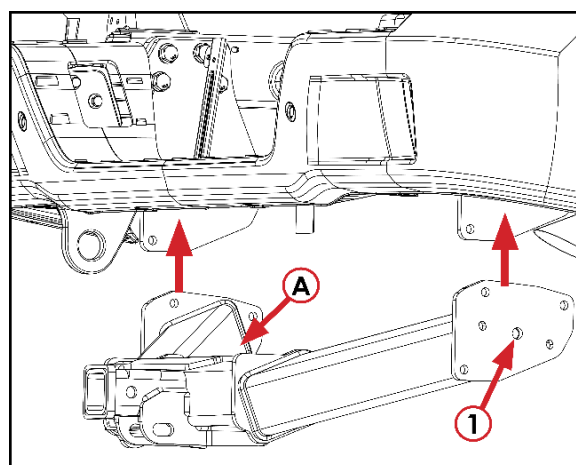
- Socket (21mm)
- Ratchet

9. Slide towbar (A) in between sidearms.

Pin towbar in place with 2x M14 x 50mm flanged bolts (G) through mounting point (1) on both the RHS and LHS.

Tools Used:

- Socket (18mm, 21mm)
- Ratchet



10. Loosely fasten the Towbar Main Beam (A) to the Towbar Side arm (B) on both sides, using 3 x M12 Flanged Bolts (L), 3 x M12 Flanged Nuts (M) and M14 Flanged Bolt (G).

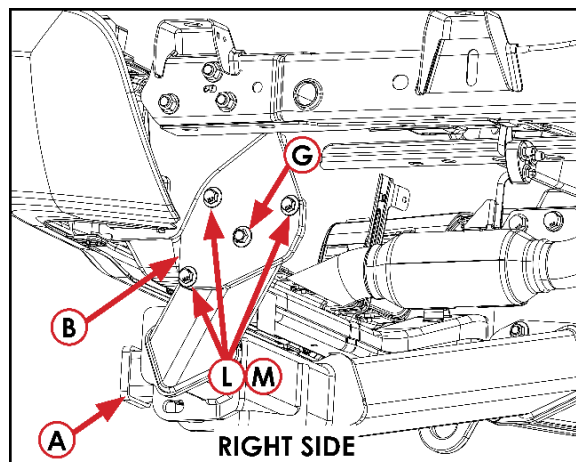
Important



Tighten but do not torque fasteners.

Tools Used:

- Socket (18mm, 21mm)
- Torque Wrench



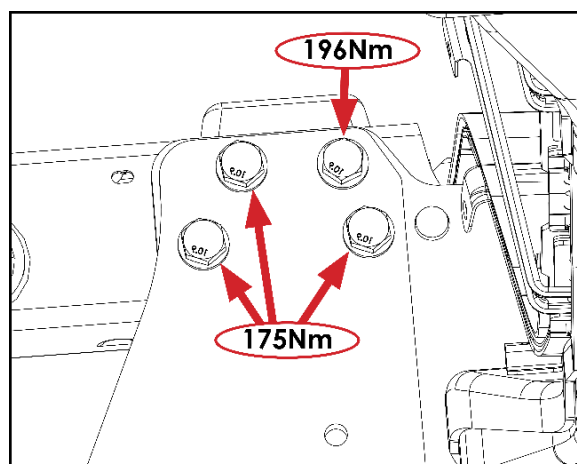
11. Torque both the Towbar Sidearms as follows:

M14 x 1.5P x 50mm - 196Nm

M14 x 2P x 130mm - 175Nm

Tools Used:

- Socket (21mm)
- Torque Wrench



12. Torque the Towbar Main Beam (A) to the Towbar

Sidearms (B) as follows

M14 x 2P - 175Nm

M12 x 1.25P - 125Nm

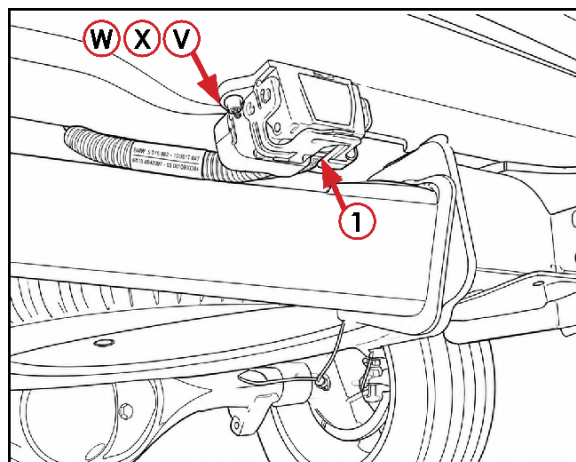
Tools Used:

- Socket (18mm, 21mm)
- Torque Wrench

13. Remove the existing trailer wiring harness (1) from the mounting bracket

Install the plug bracket (V) onto the inside of rear bumper as shown in the picture on the right.

With the plug bracket (V) in place, re-route the existing trailer wiring harness (1) and install using the M4 Nylon Nuts and M4 Washers (W)(X)



14. Affix load rating label (U) to the inner door panel as shown.

Important

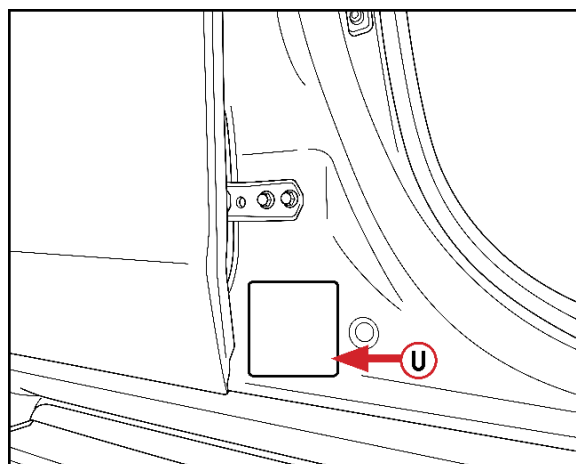


Please place the installation manual in the glove box after the towbar installation is complete.

Important



Before towing with your vehicle please refer to the vehicle owners handbook for trailer towing information.





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.



CUSTOMER INFORMATION

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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).

