



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03619RW

VOLKSWAGEN TRANSPORTER MY25 NSN CL4



PRODUCT DETAILS:

Part Number: 03619RW
ECU Number: WLE70035
Tail Harness Length Required: 400mm
TBM/Lug Part Number: 21231
Wiring Part Number: WLL90035

Maximum Towing Braked: 2800 kg
Maximum Towing Unbraked: 750 kg
Maximum Static Ball Load: 280 kg

FITTING DETAILS:

Towbar Installation Time: 90 Mins.
Wiring Installation Time: 30 Mins.
Total Installation Time: 120 Mins.
Bumper Cut Required: Yes

Hayman Reese SmartCODE Solution Required: YES
RPA Disable/Other: YES

Note:

- Please refer vehicles owner's manual for proper operation and understanding of towing features enabled when coded.
- Vehicle E-brake is fused at 15amp under seat.



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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).

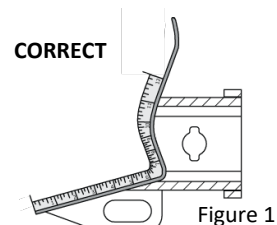


Figure 1

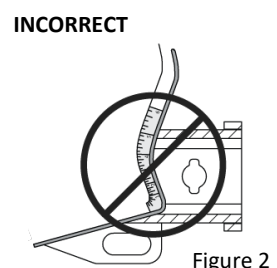


Figure 2

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

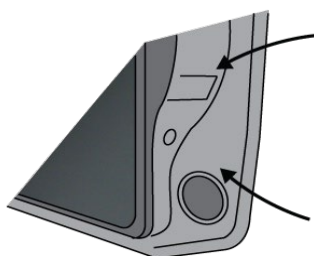
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same thread pitch and grade class are used.



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.

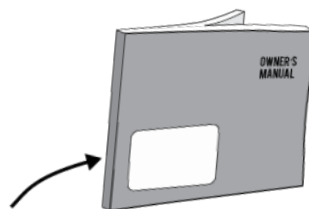
Product Labels

- 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.



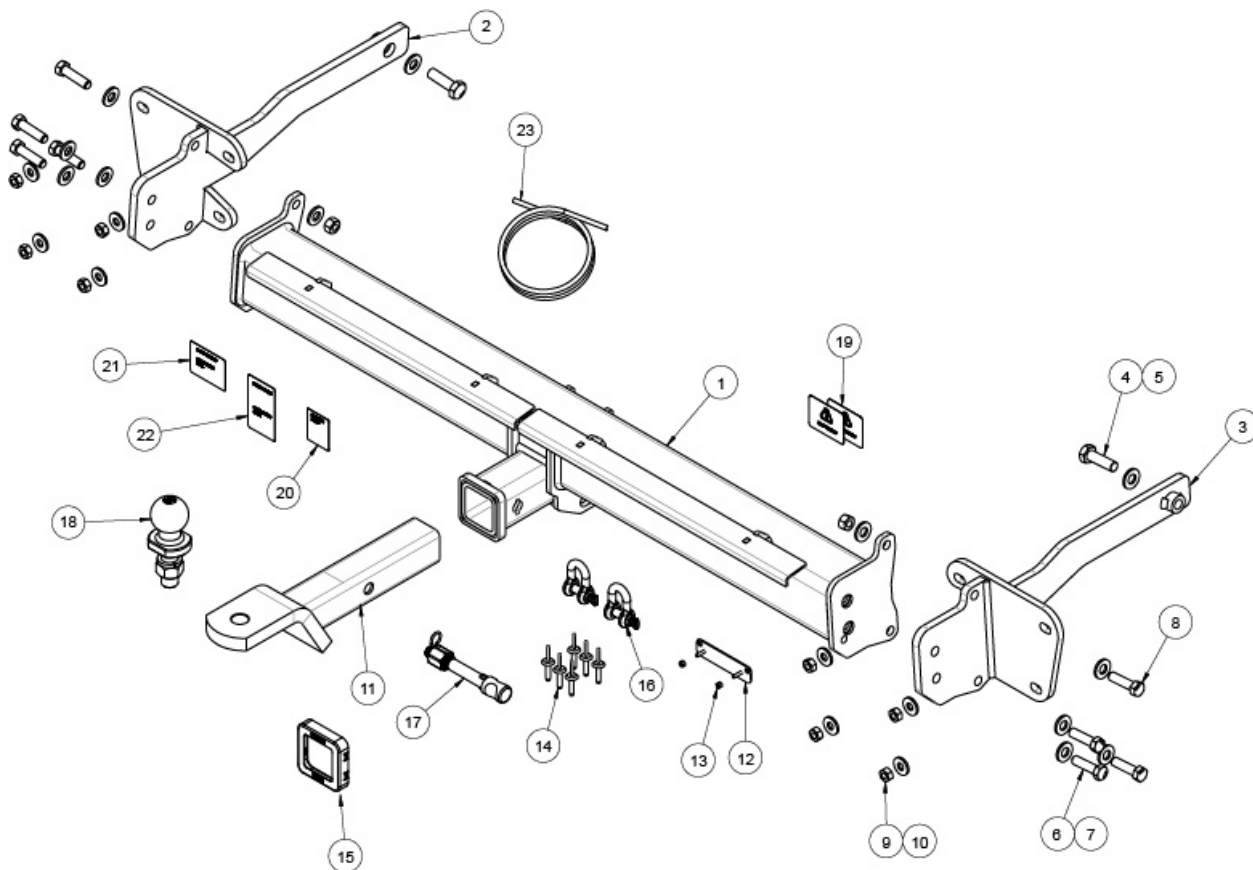
TOWBAR

INSTALLATION INSTRUCTIONS

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TOWBAR ASSEMBLY DIAGRAM

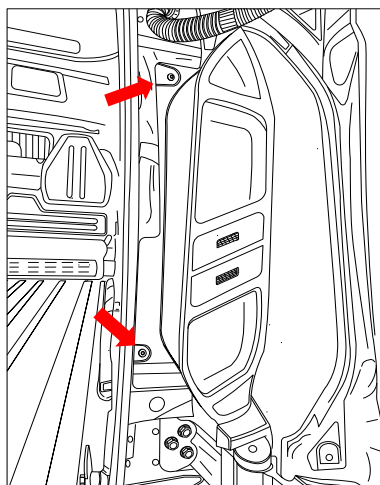


ITEM	DESCRIPTION	QTY
1	CROSSTUBE ASSEMBLY	1
2	SIDE ARM ASSEMBLY LH	1
3	SIDE ARM ASSEMBLY RH	1
4	SCREW HEX HD M14x45x2P G10.9	2
5	WASHER PLAIN M14x28x3.0mm	2
6	WASHER PLAIN M12x27x3.0mm	12
7	BOLT HEX HD M12x45x1.75P G10.9	8
8	NUT HEX HD M12x1.75P G10	4
9	NUT HEX HD M10x1.5P G10	8
10	WASHER PLAIN M10x25x3.0mm	8
11	TRAILER BALL MOUNT	1
12	PLUG BRACKET	1

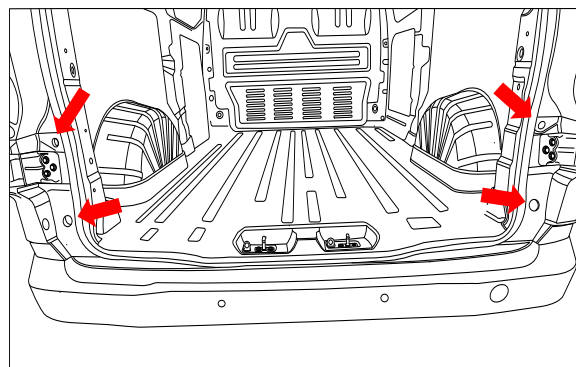
ITEM	DESCRIPTION	QTY
13	NUT NYLOC HEX HD M4x0.7P G8	2
14	POP RIVET	6
15	HITCH BOX COLLAR COVER	1
16	D-SHACKLE 10mm	2
17	SMART PIN GOLD	1
18	TOWBALL 50mm	1
19	CAN MODULE WARNING LABEL	2
20	HAYMAN REESE LOGO STICKER	1
21	COMPLIANCE LABEL	1
22	LOAD RATING LABEL	1
23	WIRING LOOM	1

1. Open the rear doors and remove 2 x Torx screws securing the taillight.
2. Remove the taillight from the vehicle by pulling it rearwards.
3. Disconnect the taillight from the wiring loom and set aside.

Repeat for the other side.

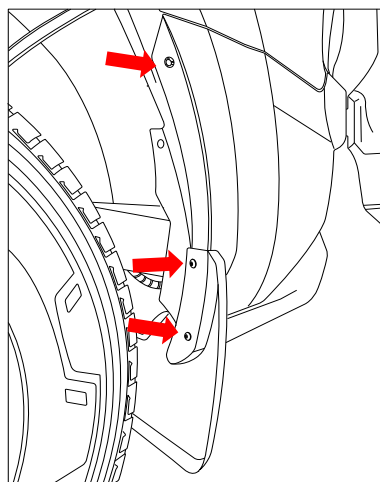


4. Remove 4 x Torx screws from the bumper.



5. In the wheel arch, drill out the 3 x rivets with a 6.5mm drill. The 6.5mm hole is required for the bumper installation.

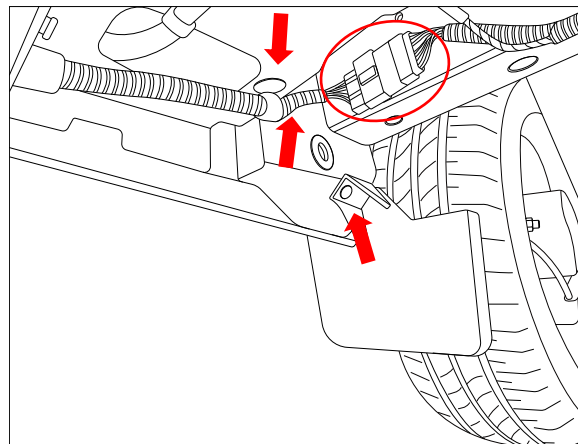
Repeat for the other side.



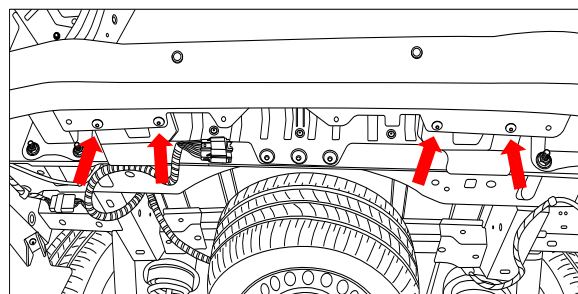
6. From under the vehicle, remove the mudflap secured with 1 x scrivet. (This may not be required for some installers.)

Repeat for the other side

7. Under vehicle on the LHS, disconnect the plug and release the loom from the chassis secured with 2 x push in clips.

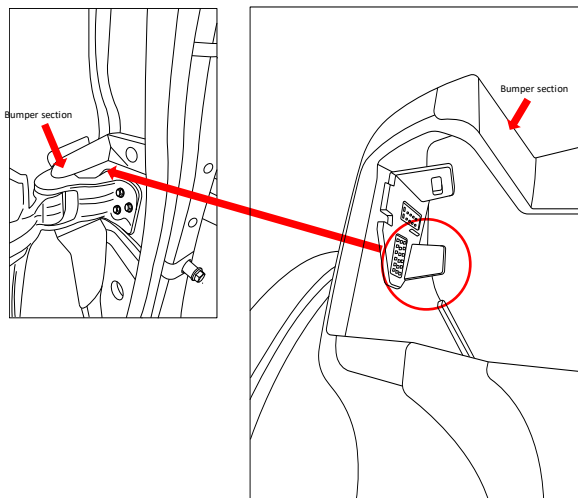


8. Remove the 4 x scrivets from under the bumper.

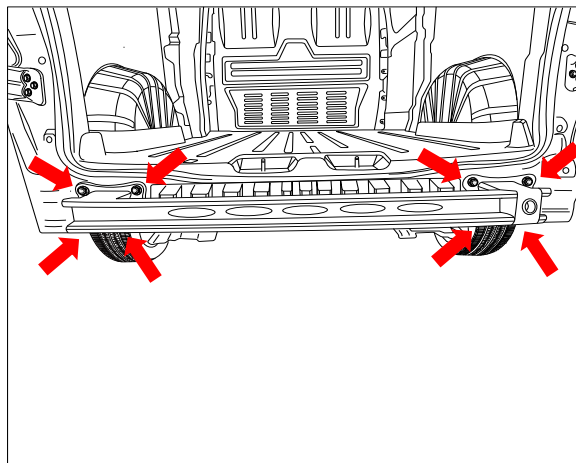


9. Peel away bumper from the sides and remove from vehicle.
NOTE: There is a retainer clip by the lower door hinge that requires some manipulation to release the top section of the bumper.
Tip: The clip must be pushed rearwards of vehicle while the bumper is manipulated outwards.

Image right shows the clip position with the bumper removed.



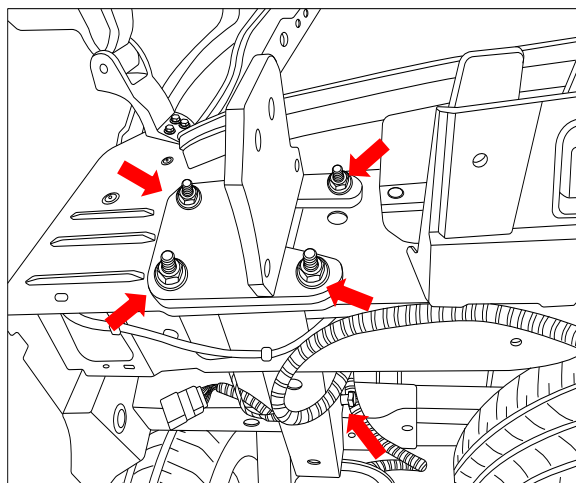
10. Remove and discard the impact beam, secured with 4 X nuts per side.



11. Insert the side arm assembly into the chassis rail and loosely secure to the side of the chassis with 1x M14x45x2P setscrew complete with 1 x washer and to the rear studs with 4x M10x1.5P nuts complete with 1 x washer per nut.

Tip: Clean out the M14x2P weldnut with a tap prior to installation.

Repeat for other side.

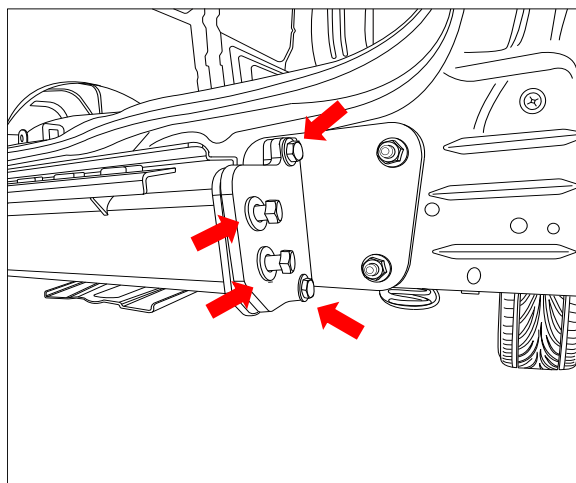


12. Position the crosstube to the side arms and loosely secure each side with 2 x M12x45x1.75P bolts complete with 2 x washers and 1 x nut per bolt, along with 2 x M12x45x1.75P bolts complete with 1 x washer per bolt.

Tip: Clean out the M12 x 1.75P weldnuts in the crosstube with a tap prior to installation.

Tighten all fasteners to the following torque:

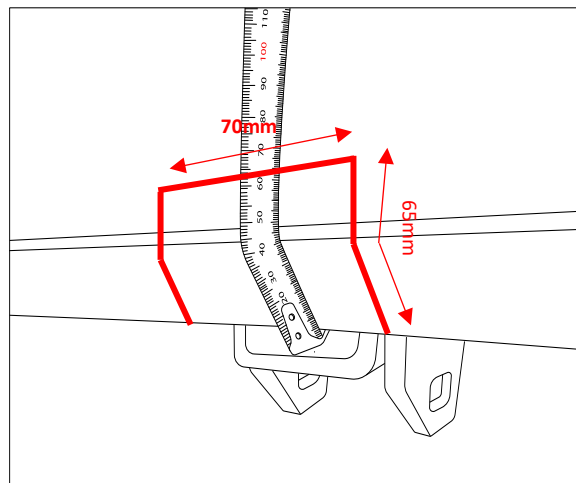
M10 x 1.5 Gr 10.9 Nut : **62Nm**
 M12 x 1.75 Gr 10.9 : **109Nm**
 M14 x 2 Gr10.9 : **175Nm**



13. For the bumper cut.

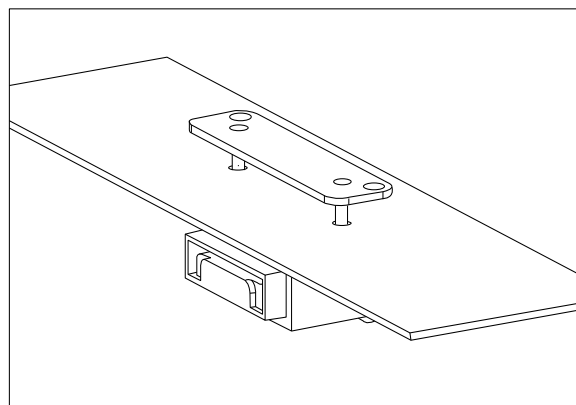
Locate the centre of the bumper, and on the outside face, mark off and cut out 70mm wide by 65mm long measured from the bottom edge of the bumper.

Deburr and smooth off cut edge.

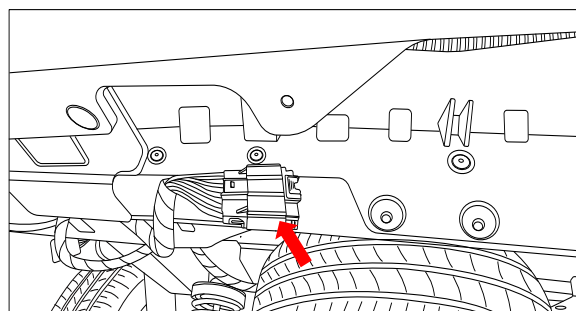


14. For the plug bracket.

On the underside of the bumper, determine an appropriate position, mark out and drill 2x $\varnothing 5$ mm holes 69mm apart on bumper skin to support plug bracket.



15. On the centre rear under carriage, locate the 16-way Trailer Pre-wire connector, remove the mating connector and discard.





TOWBAR INSTALLATION INSTRUCTIONS

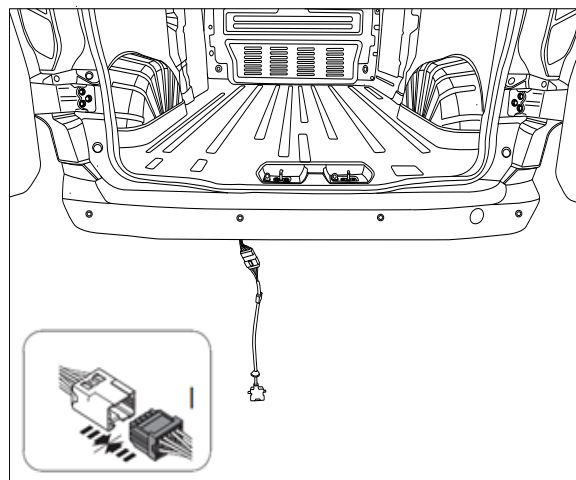
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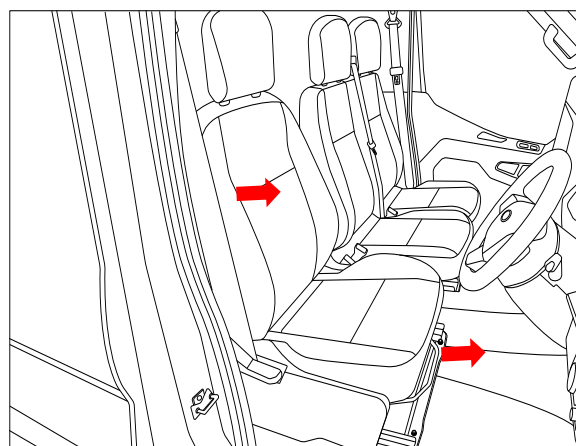
16. Connect the trailer patch (WLL90035) exterior harness to vehicle mating connector.
17. Connect the trailer patch blue connector to tail harness (400mm) mating connector.

Waterproof the blue connector using Die Electric Grease.

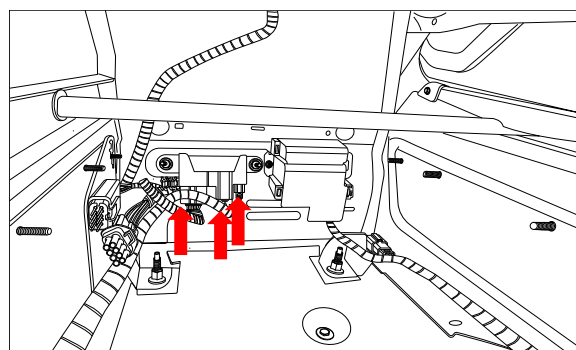
18. Route the tail towards the plug bracket.
19. Secure the harness using cable ties allow enough length for trailer socket to be mounted on the plug bracket.



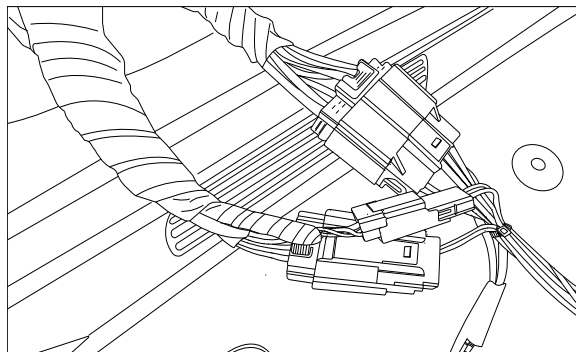
20. Slide the driver seat forward.
21. Tilt the lumbar support forward to gain access to under seat cover.
22. Remove 1x Torx, slide out cover.



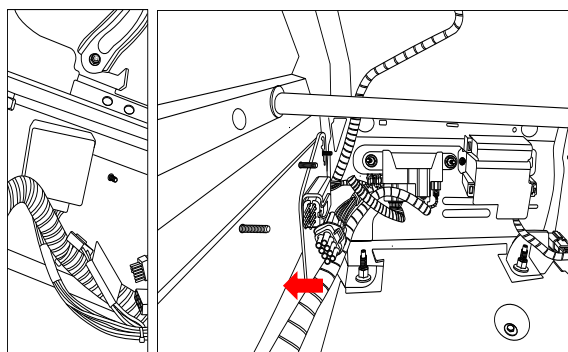
23. Locate the and disconnect 3x Trailer Pre-wire connectors from the plastic holder.



24. Connect trailer patch (WLL90035) Interior harness to mating connector.



25. Connect the trailer patch 18-way connector to ECU (WLE70035).
26. Peel back and remove the ECU adhesive backing tape and secure the module to vehicle Sheetmetal.



27. Re-fit all removed parts and use the supplied 6x plastic rivets for the bumper and mudflap fitment. (removed in step 5).
28. Mount the trailer socket to plug bracket.
Note: Ensure that all connections are reconnected.
29. Prior to coding test, the functionality of lights using a test board, if functionality passes proceed to coding of vehicle.
Note: When testing Prior to coding the instrument cluster will display a message "Blind Spot Assist not available Trailer attached".
30. Next step is code of vehicle. Pay attention to the "SmartCode" Instruction page (Appendix).
31. Once vehicle is coded re-test trailer functionality.
32. Place the fitting instructions in the glove box after fitment.



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

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

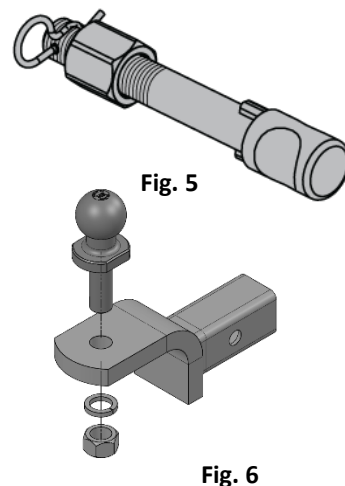
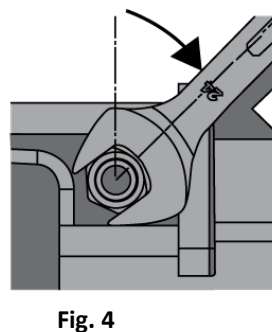
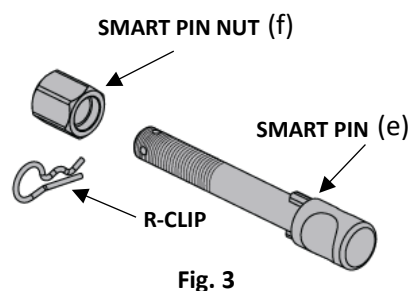
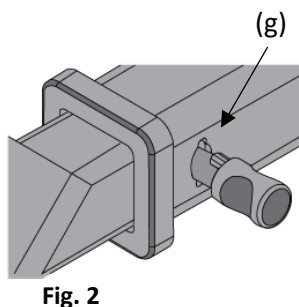
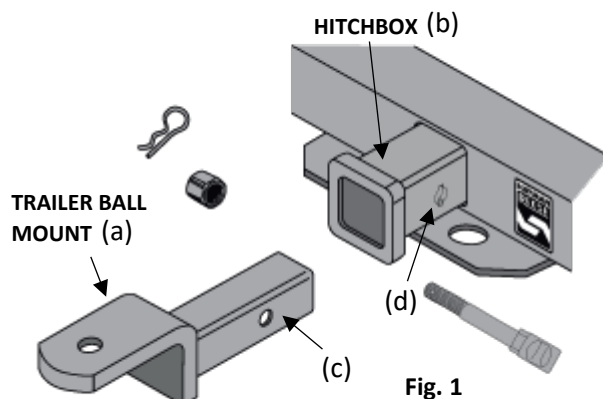
Tighten Smart Pin Nut by turning nut a further 1/8th of a turn in the clockwise direction using a 24mm spanner (Fig. 4).

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).



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