



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03329RW

VW TOUAREG CR CL4



PRODUCT DETAILS:

Part Number:	03329RW	Maximum Towing Braked:	3500	kg
ECU Number:	WLE70009	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1800 mm	Maximum Static Ball Load:	300	kg
TBM/Lug Part Number:	21201			
Wiring Part Number:	WLL90009			

FITTING DETAILS:

Towbar Installation Time:	100 Mins.	Hayman Reese SmartCODE Solution Required:	YES
Wiring Installation Time:	20 Mins.	RPA Disable/Other:	YES
Total Installation Time:	120 Mins.		
Bumper Cut Required:	Yes		

Note:

- Rear Park Assist (RPA) & Lane Change Assist will deactivate when the vehicle is coded. (* See Page 12 for added information).
- Electric Brake = Blue wire taped back next to 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).

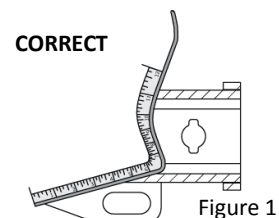


Figure 1

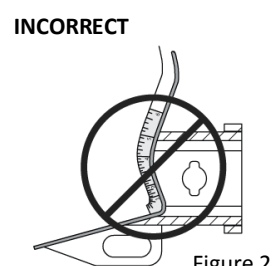


Figure 2

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

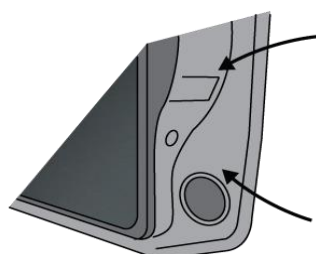
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

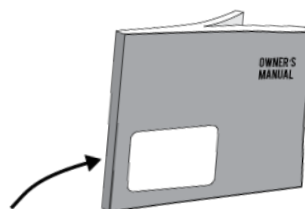
Product Labels

- 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.

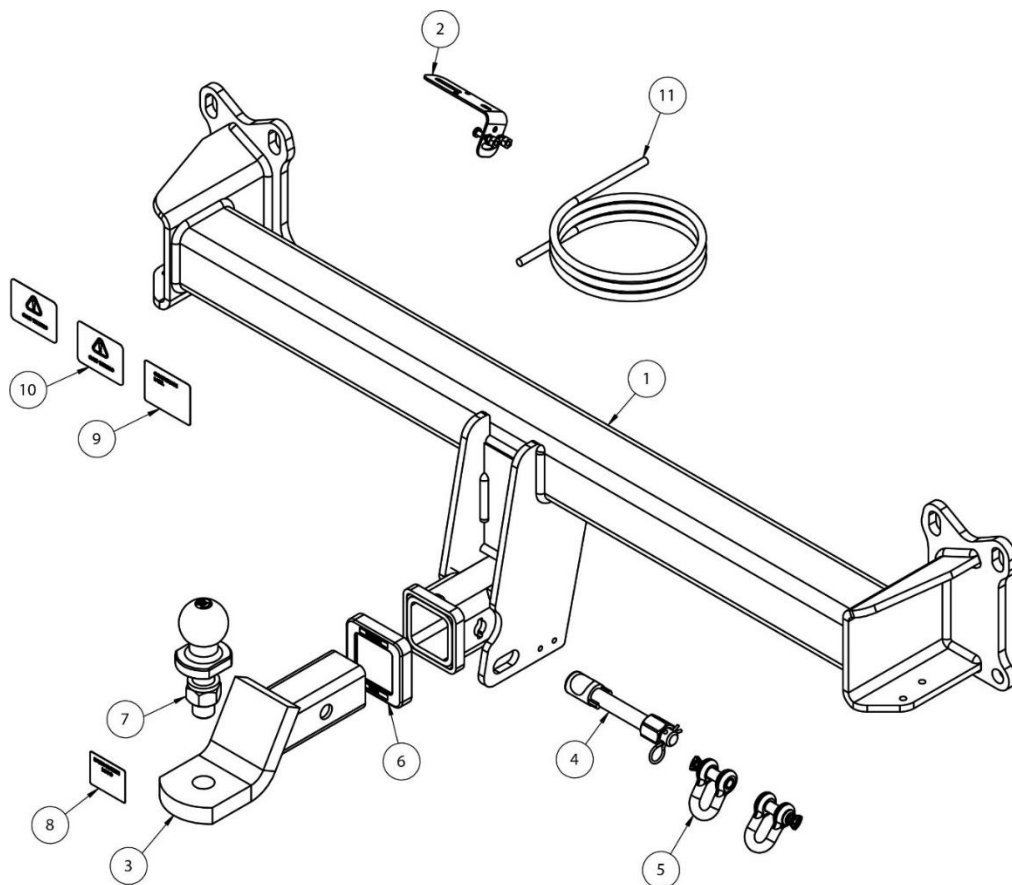


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TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	VW TOUAREG WELDMENT ASSY	1
2	UNIVERSAL PLUG BRACKET KIT	1
3	TRAILER BALL MOUNT	1
4	SMART PIN	1
5	10mm "D" SHACKLE	2
6	HITCH BOX COLLAR COVER	1
7	TOWBALL 50mm	1
8	H.R STICKER	1
9	ACRYLIC COMPLIANCE LABEL	1
10	CAN MODULE WIRING LABEL	2
11	WIRING LOOM	1

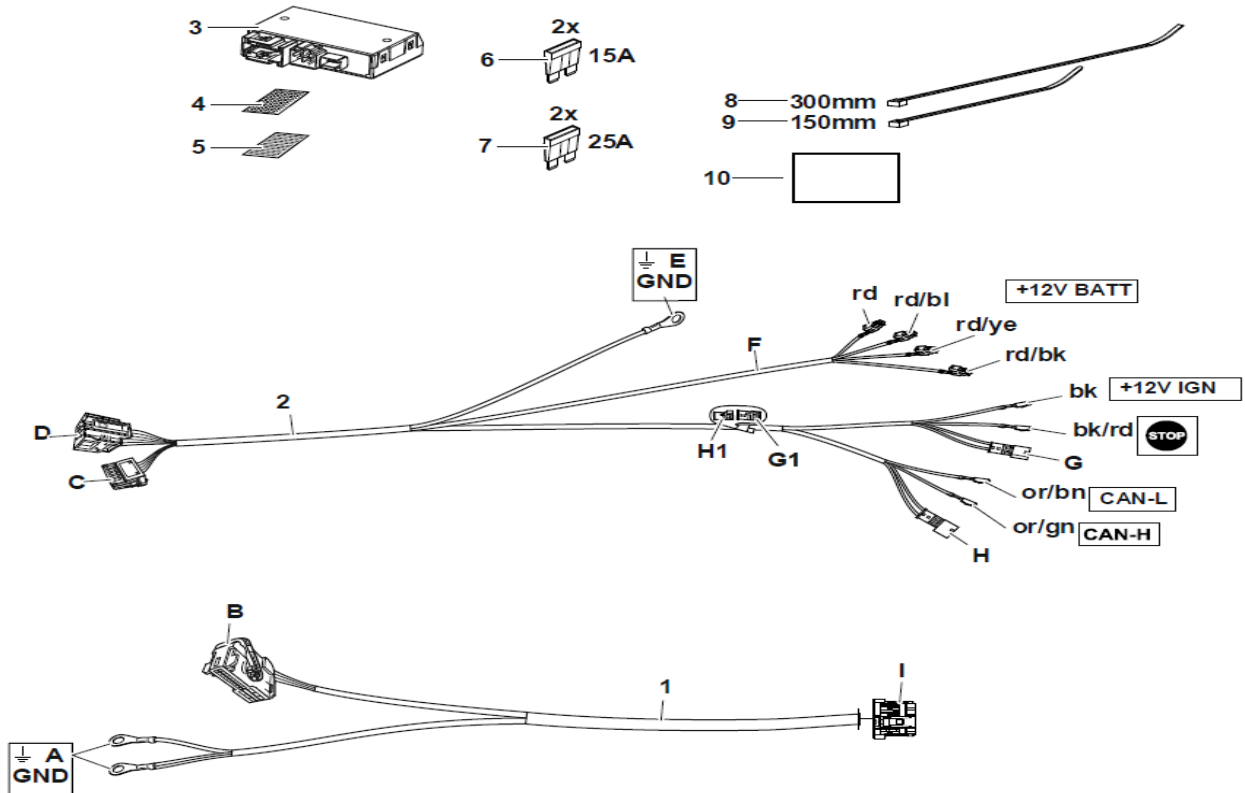


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i WIRING ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	OUTPUT HARNESS	1
2	CAN/POWER INPUT HARNESS (NOT REQUIRED)	1
3	ECU WLE70009	1
4	HOOK TAPE	1
5	LOOP TAPE	1
6	15amp BLADE FUSE (NOT REQUIRED)	1
7	25amp BLADE FUSE (NOT REQUIRED)	2
8	300mm CABLE TIE	3
9	150mm CABLE TIE	5
10	CODED TRAILER MODULE WARNING LABEL	1



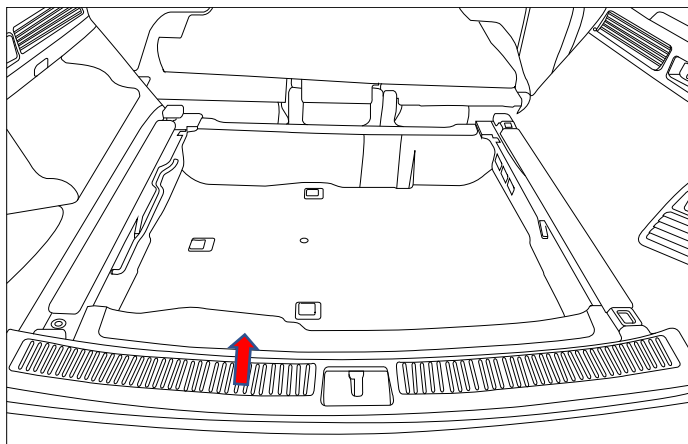
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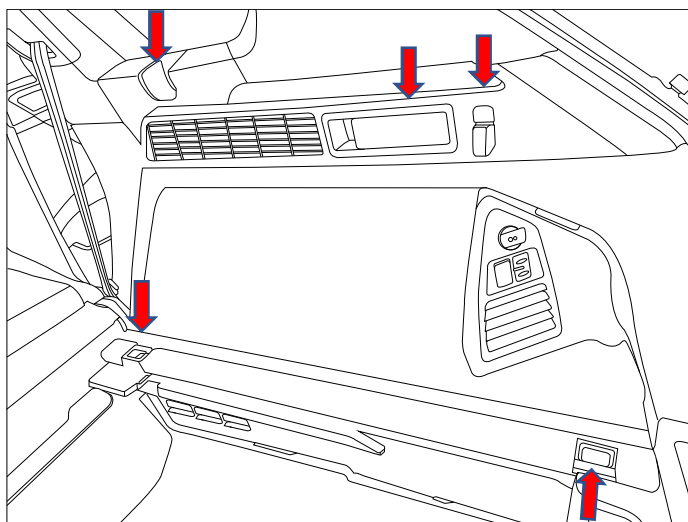
1. Remove rear luggage floor and spare wheel from the vehicle.

Remove the rear trim cover to remove by pull it up.



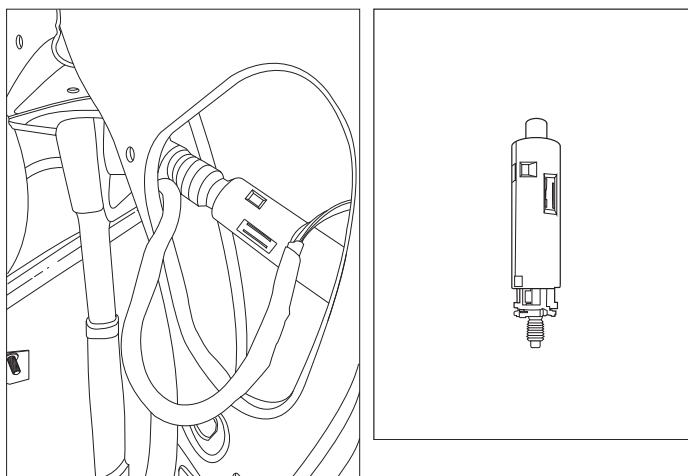
2. Remove the 5 x torx screws on the LHS rear trim.
3. Dislodge the trim and disconnect the connectors.
4. Feed the seat release lever through the cavity and remove the trim from the vehicle.

Repeat for other side



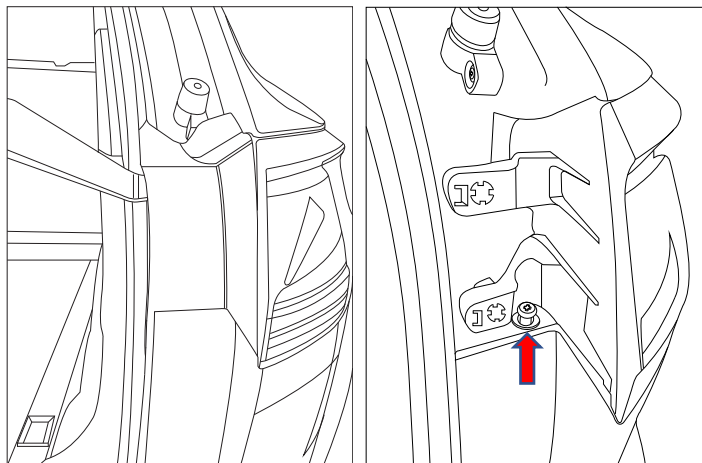
5. Unscrew the plastic bolt from the rear of the taillight. Then twist the plastic bolt case to remove it.
Disconnect the taillight harness.

Repeat for other side



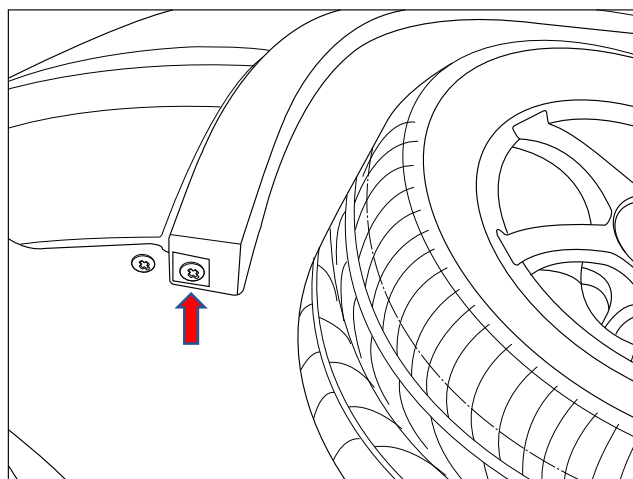
6. Remove the taillight cover.
Remove the 1x torx screw.
Remove the taillight by pulling it rear ward.

Repeat for other side



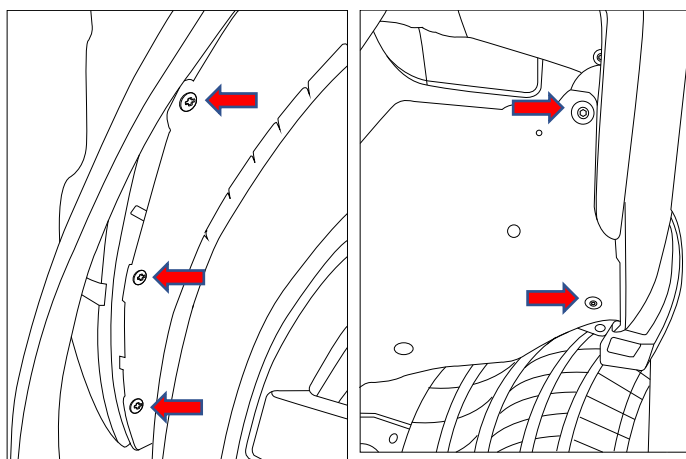
7. Unscrew 1x torx screw from wheel arch and peel the it outward to unclip

Repeat for other side

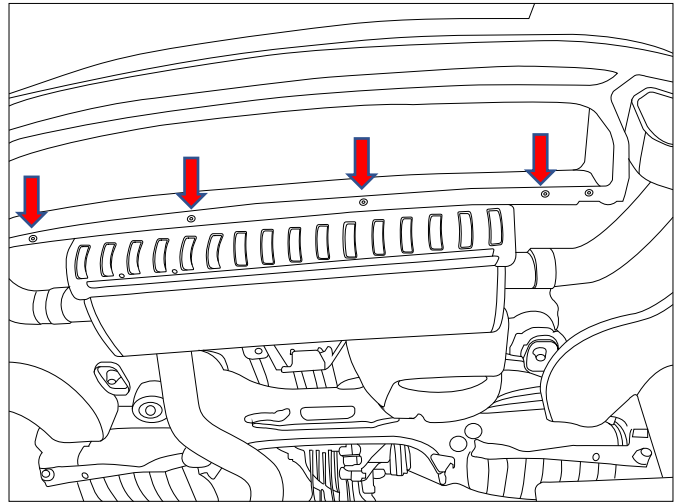


8. Unscrew 3x torx screws behind the wheel arch
Unscrew 2x torx screws under side of the bumper

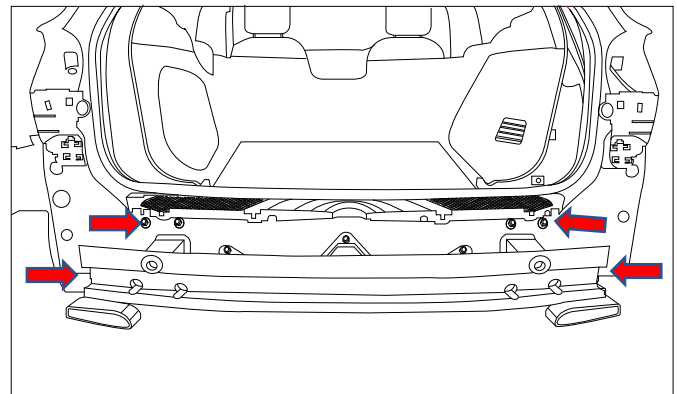
Repeat for other side



9. Unscrew 4x torx screws under center of the bumper
With two persons unclip the bumper and disconnect the bumper sensor harness behind the tail light assembly.

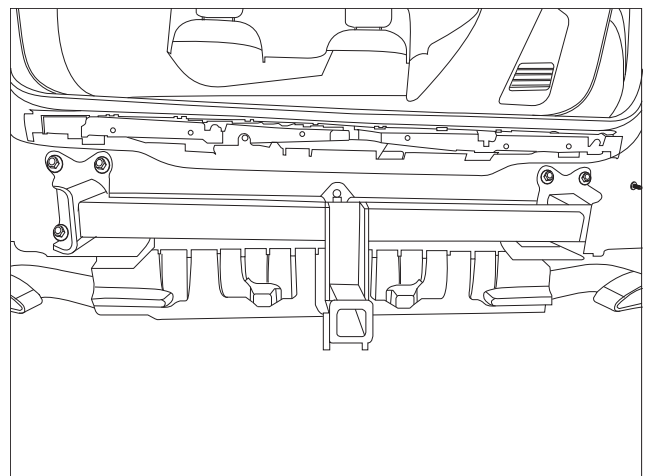


10. Unscrew the 4x bolts from the impact beam.
Discard the impact beam.
Retain the 4x bolts.



11. Fit the Towbar in place and reuse the retained 4x bolts.

TORQUE M12 = 80 Nm

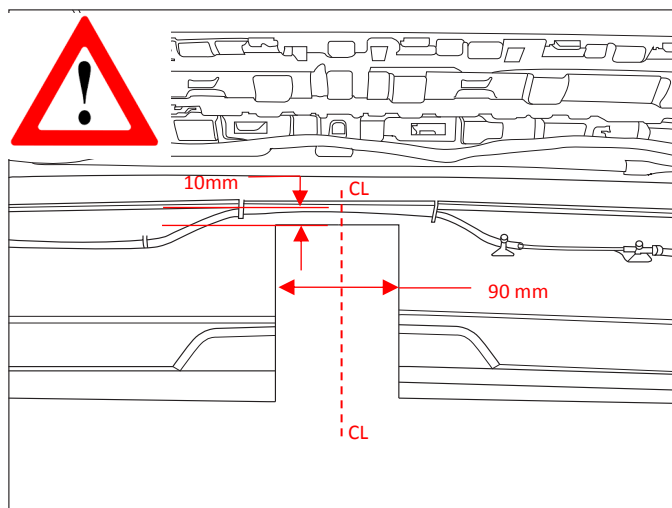
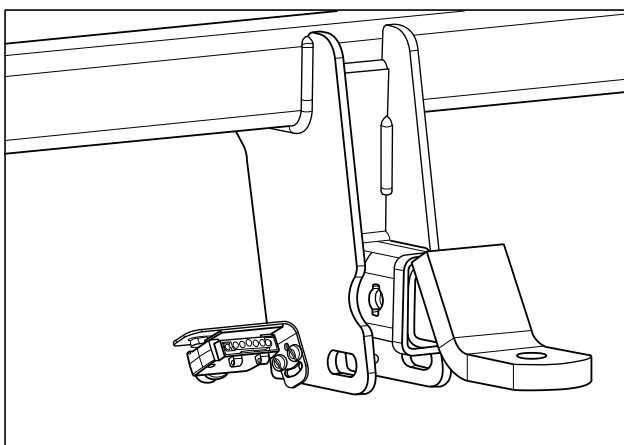


12. CAUTION

DO NOT CUT INTO THE FOOT SWIPE SENSOR CABLE.
MOVE THE FOOT SWIPE SENSOR CABLE TO ONE SIDE BEFORE CUTTING

Mark and cut an area at the centre line of the bumper 90mm wide and 10mm way from the bumper tabs

Reroute the foot wipe sensor cable
Around the cut out area.

**13. Reassemble all removed parts and secure all fastener****14. Screw the plug bracket to dropper
Assemble the plug to the bracket**



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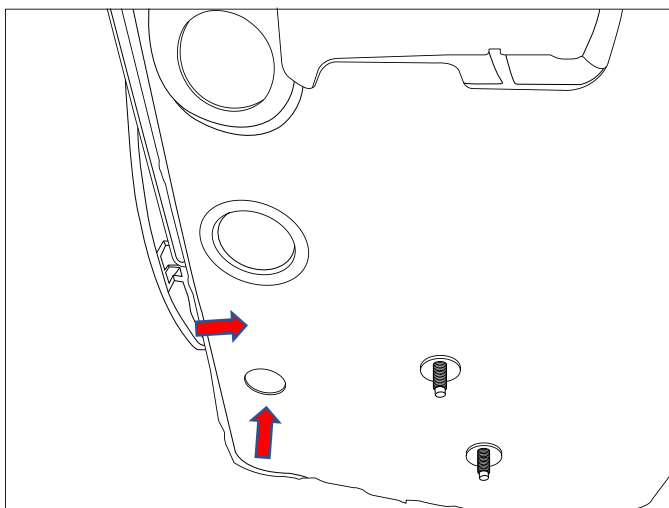
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IMPORTANT

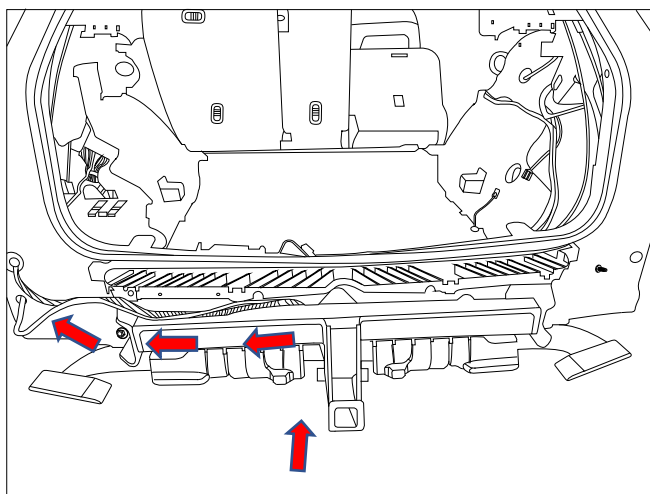
Due to possible vehicle variations, always confirm any noted vehicle colour wires with a multi-meter to ensure the correct function is identified before soldering or scotch locking. For vehicle wires denoted with two colours (example; RED/GREEN) the first colour will always be the main wire colour while the second colour is the thinner trace colour on the wire.

15. On the LHS of the vehicle if there is no sunroof drain plug remove the vehicle blanking grommet and drill out the hole to $\varnothing 30\text{mm}$.
(if there is a sunroof drain occupying the hole then drill above the hole **“Ensure not to drill through the drainpipe”**).

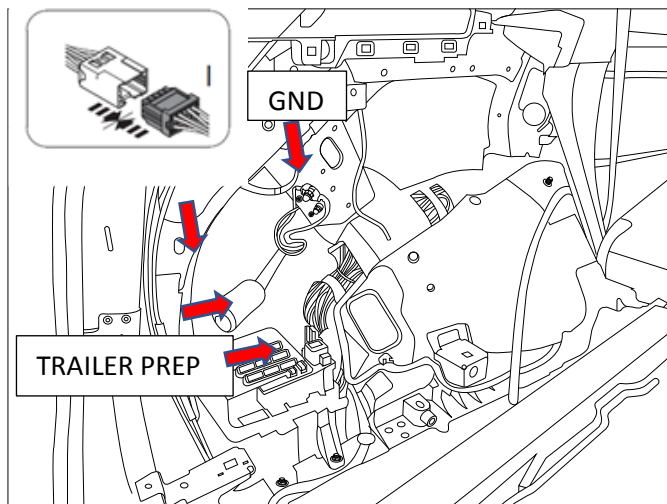
Note: Remove all sharp edges and spray rust inhibitor.



16. Mount the 1800 tail to the plug bracket with supplied M4 fasteners.
17. Route the tail blue connector towards the previously drilled hole.
18. Slide the grommet to desired position on the tail and secure with supplied cable tie.
19. Feed the tail harness through the hole **ensure the grommet is seated properly**.

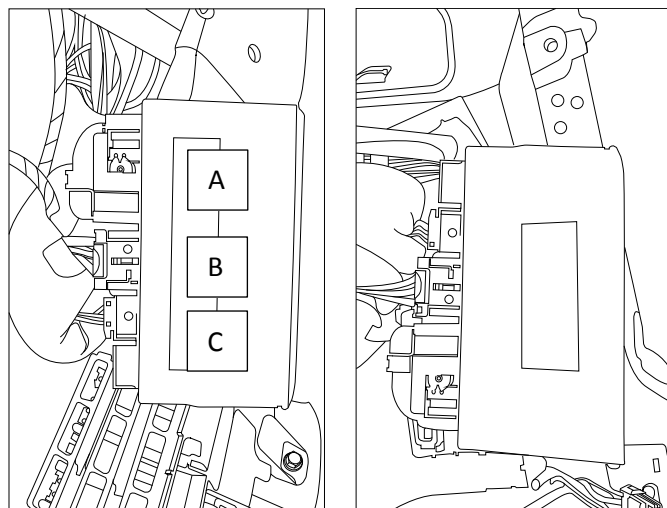


20. Route the trailer patch output harness (item 1) (WLL90009) towards the tail blue connector.
21. Mate the blue connectors.
22. Connect the ring terminal to the factory ground location.
23. Plug the 24-way connector output harness (item 1) into the trailer module (item3) (WLE70009) cavity A.
Ensure that the lever connector is plugged in securely.
24. Near the fuse box on the LHS Locate the 6-way and 10-way pre-wire trailer prep connectors that are wrapped in foam.

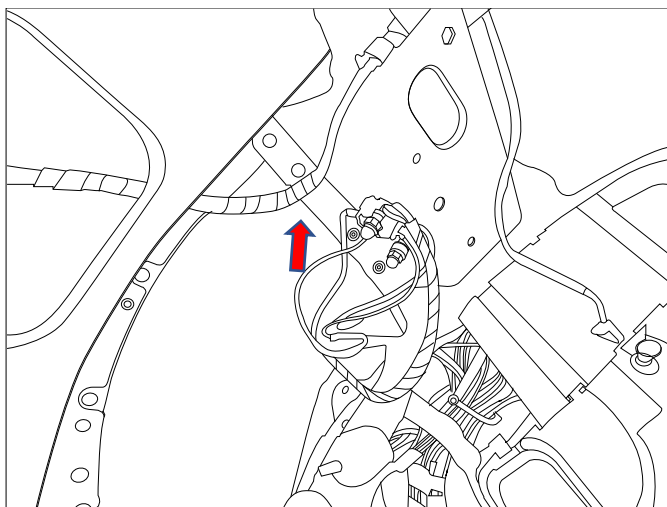


26. Remove the foam from the Pre-wire connector's and plug the connector in to the ECU in the following order:
6-way = cavity B.
10-way = cavity C.
27. Add the adhesive hook and loop tape (item 3 & 4) to the back of the ecu.

Note: Ensure the tape has good adhesive prior to mounting the ecu.



29. Adhere the ecu to the inner Sheetmetal.
30. **Ensure the ecu has good adhesion.**



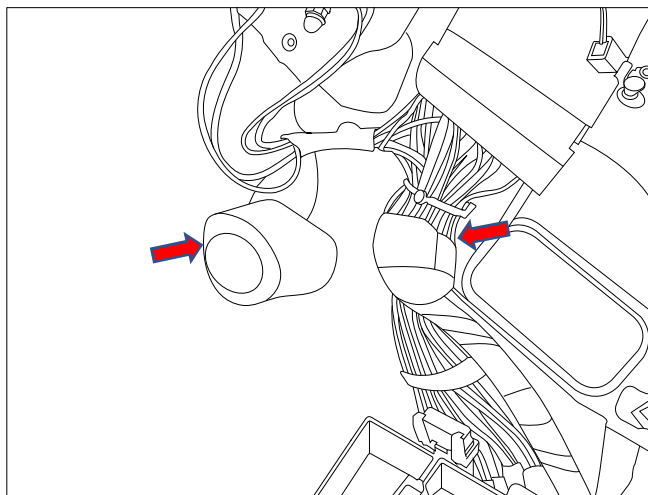


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31. Locate the 2-way CAN connectors which are wrapped in foam.
32. Remove the foam and mate the connectors together.



34. Secure harness using cable ties.
35. Refit all bumper fascia and lights.
36. Reconnect the battery.
37. The next step is coding of the vehicle. Pay attention to the "SmartCODE" instruction page.



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smartCODE
Intelligent towing



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



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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.

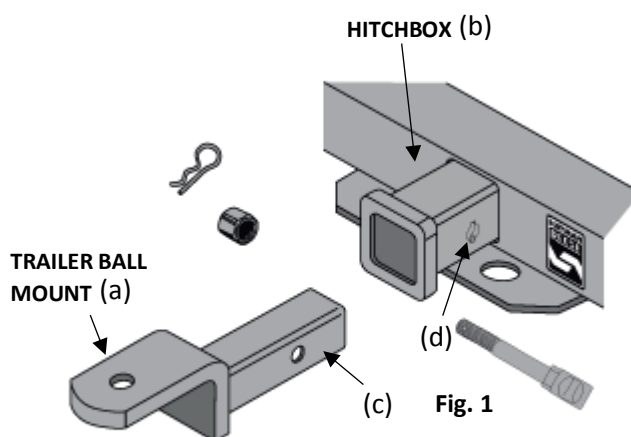
i Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- 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

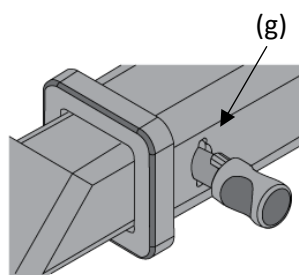
STEP 1

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



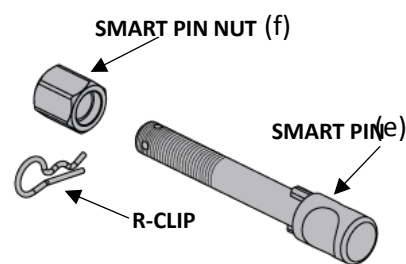
STEP 2

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)



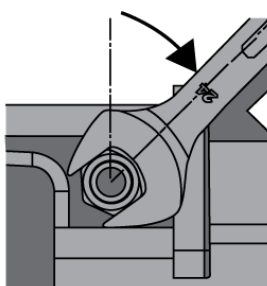
STEP 3

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.



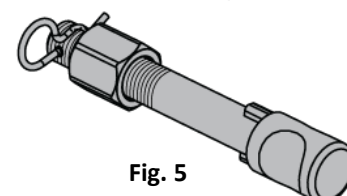
STEP 4

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).

