



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03347RW

AUDI Q3 F3 CL4



PRODUCT DETAILS:

Part Number:	03347RW	Maximum Towing Braked:	2200	kg
ECU Number:	WLE70024	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1800 mm	Maximum Static Ball Load:	200	kg
TBM/Lug Part Number:	21331			
Wiring Part Number:	WLL90024			

FITTING DETAILS:

Towbar Installation Time:	90 Mins.	Hayman Reese SmartCODE Solution Required:	YES
Wiring Installation Time:	30 Mins.	RPA Disable/Other:	YES
Total Installation Time:	120 Mins.	Note:	

- Please refer vehicles owner's manual for proper operation and understanding of towing features enabled when coded.



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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).

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

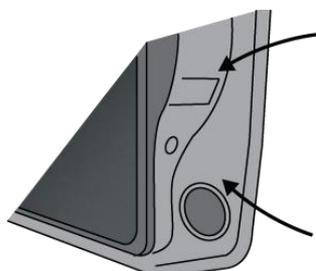
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

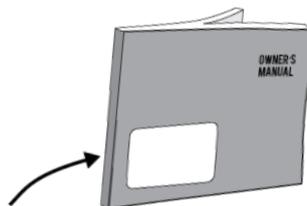
Product Labels

- 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



CORRECT

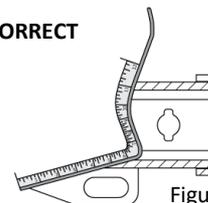


Figure 1

INCORRECT

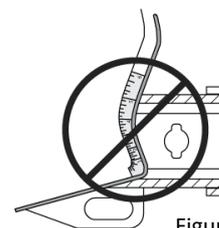


Figure 2



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.

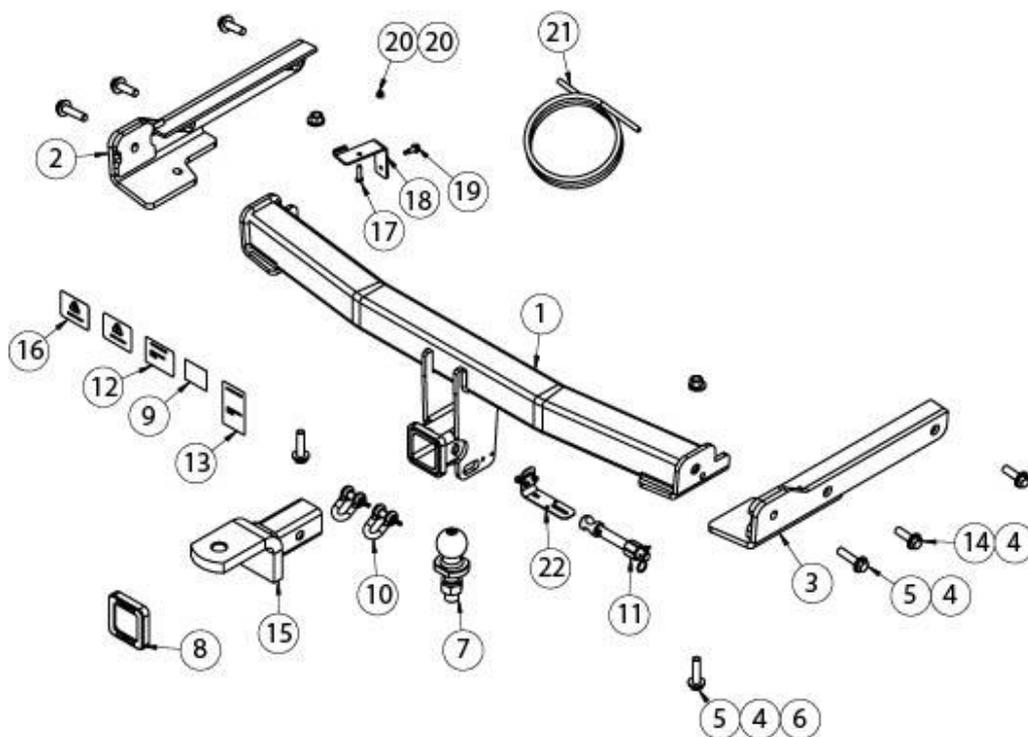


TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03347RW

AUDI Q3 F3 CL4

i TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	AUDI Q3 WELDED ASSY	1
2	SIDE ARM LH ASSY	1
3	SIDE ARM RH ASSY	1
4	WASHER PLAIN 1/2"	10
5	BOLT HEX HD M12x50x1.75P	4
6	NUT HEX HD M12x1.75P	2
7	TOWBALL 50mm	1
8	HITCH BOX COLLAR COVER	1
9	HAYMAN REESE LOGO STICKER	1
10	"D" SHACKLE 10mm	2
11	SMART PIN GOLD	1

ITEM	DESCRIPTION	QTY
12	COMPLIANCE LABEL	1
13	LOAD RATING LABEL	1
14	SET SCREW HEX HD M12x40x1.75P	4
15	TRAILER BALL MOUNT	1
16	CAN MODULE WARNING LABEL	2
17	SET SCREW HEX HD M6x25x1.0P	1
18	SENSOR BRACKET	1
19	TEK SCREW 14-20 HEX HD 22mm	1
20	NUT NYLOC INT HEX HD M6x1.0P	1
21	WIRING LOOM	1
22	UNIVERSAL PLUG BRACKET KIT	1

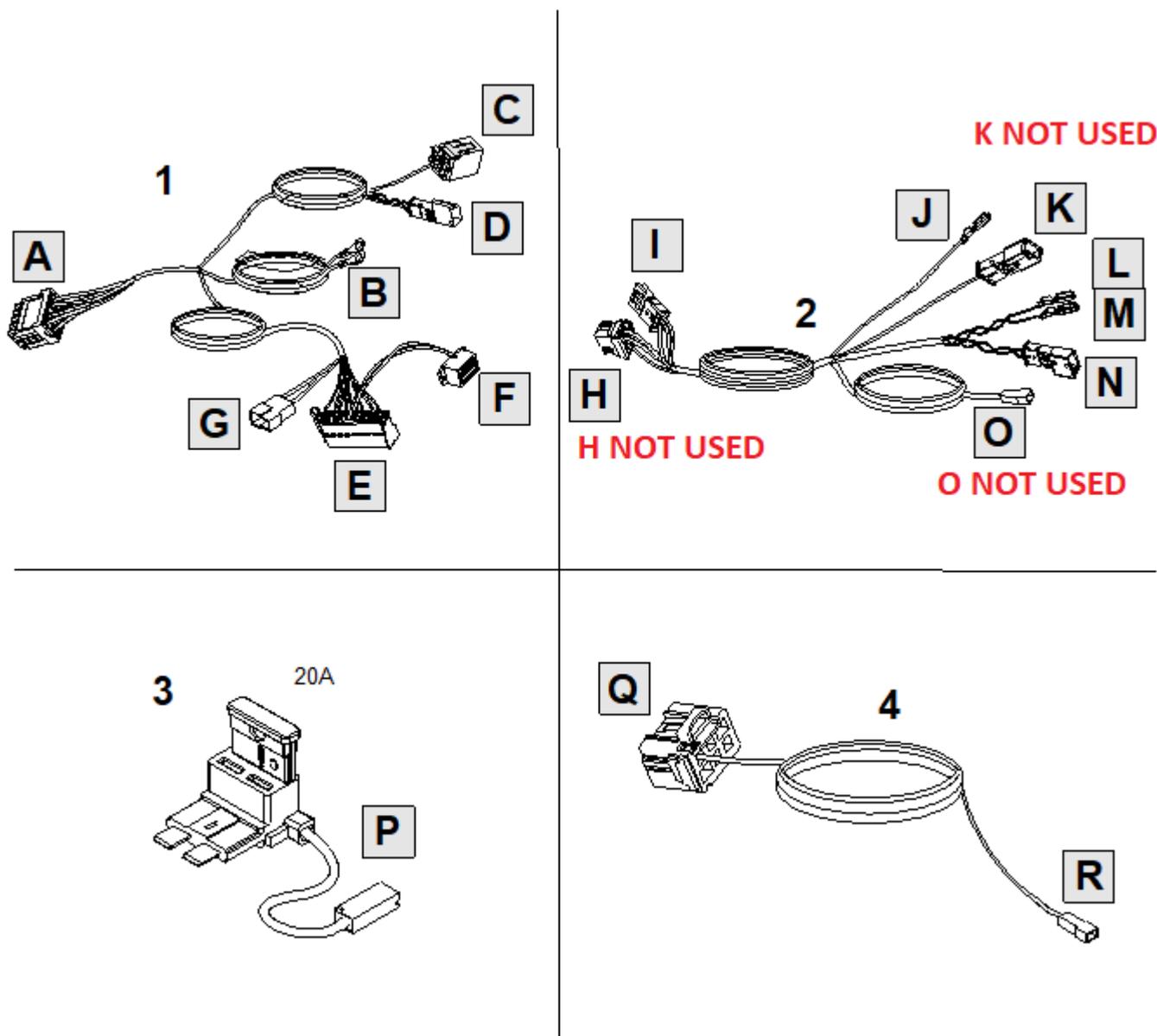


TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03347RW

AUDI Q3 F3 CL4

i WIRING ASSEMBLY DIAGRAM



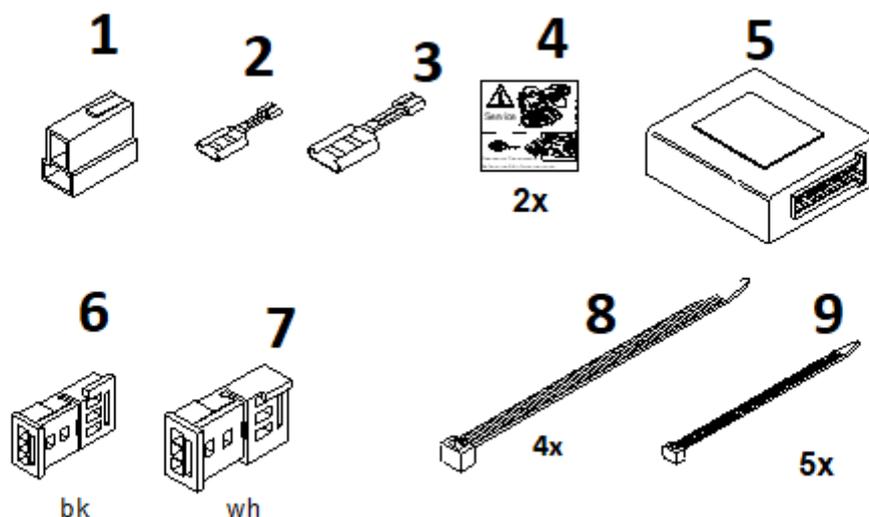
ITEM	DESCRIPTION	QTY
1	MAIN HARNESS	1
2	CAN EXTENSION HARNESS	1
3	ADD-A FUSE	1
4	POWER INPUT HARNESS	1



TOWBAR INSTALLATION INSTRUCTIONS

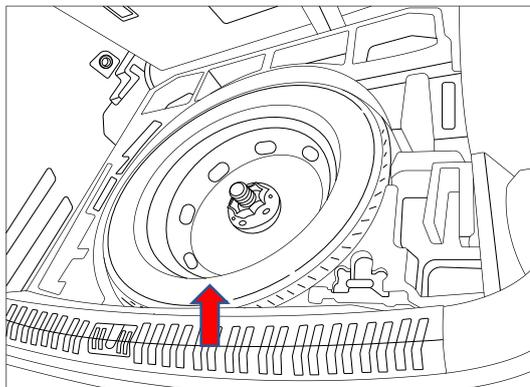
PART NUMBER 03347RW

AUDI Q3 F3 CL4



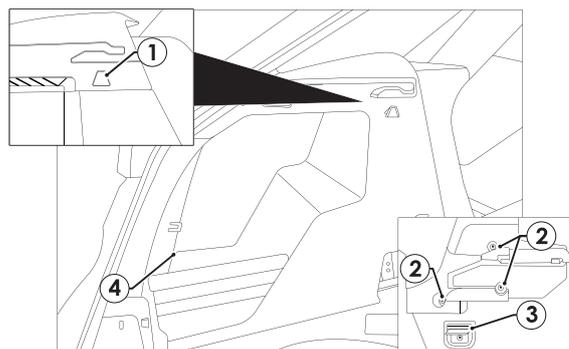
HARNES ACCESSORIES		
ITEM	DESCRIPTION	QTY
1	2-WAY F. CONNECTOR 6.3MM (BRAKE PREP CONNECTOR)	1
2	F. CONTACT 6,30MM/1,00mm ² (BRAKE PREP CONNECTOR)	1
3	F. CONTACT 6,30MM/2,50mm ² (BRAKE PREP CONNECTOR)	1
4	LABEL DIAGNOSTICS CAN- MODULE	2
5	TRAILER ECU (WLE70024)	1
6	3-WAY F. CONNECTOR (BLACK)	1
7	3-WAY F. CONNECTOR (WHITE) (NOT REQUIRED)	1
8	300mm CABLE TIE	4
9	150mm CABLE TIE	5

1. Open the tailgate door.
2. Remove the rear sunshade (if applicable).
3. Remove the boot floor
4. Fold down the rear seats
5. Remove the tool tray.
6. Remove the rear scuff trim by pulling upward.

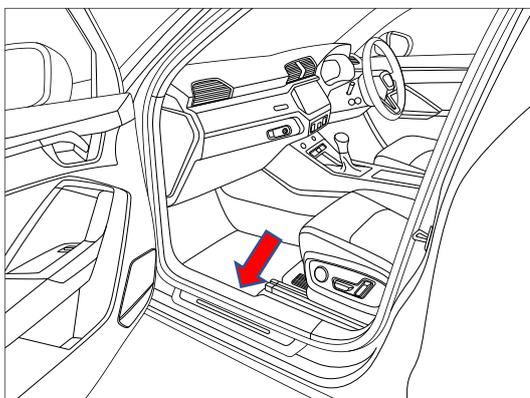


7. On the LHS, remove the clip (1) on the LHS trim to gain access to the screw.
8. Remove the screw behind luggage clip.
9. Remove the 3 Torx screws (2). And the luggage hook (3) securing the rear scuff trim (4).

Dislodge and remove the LHS rear trim.



10. Remove the LHS front passenger sill trim.





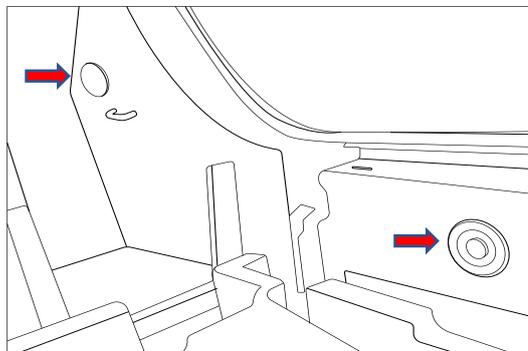
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PART NUMBER 03347RW

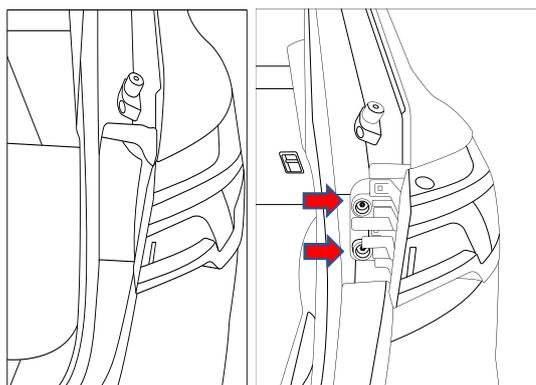
AUDI Q3 F3 CL4

11. Remove the 2x plastic cover
Unscrew the 2x flange nuts

Repeat for the other side

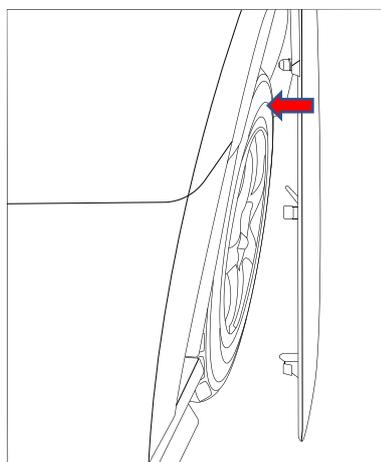


12. Remove the tail light trim cover to access the screws.
Remove the 2x screws and pull the tail light rear
ward.
Disconnect the electrical connector.
Repeat for the other side.



13. Peel the wheel arch to the side to access the shoulder
screw
Remove the shoulder screw

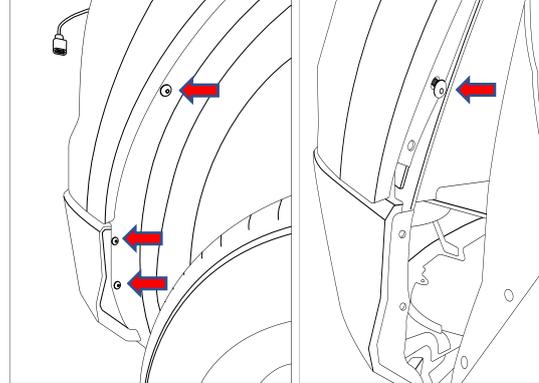
Repeat for the other side



14. Remove the 3x screws wheel arch

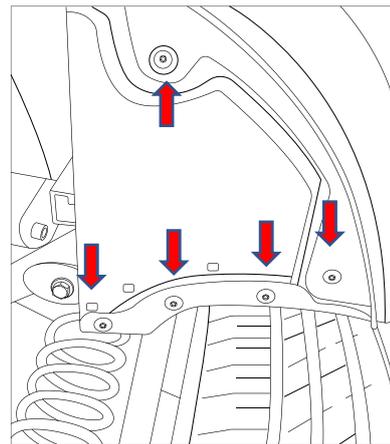
Peel the wheel arch cover back and remove the 1x screw

Repeat for the other side

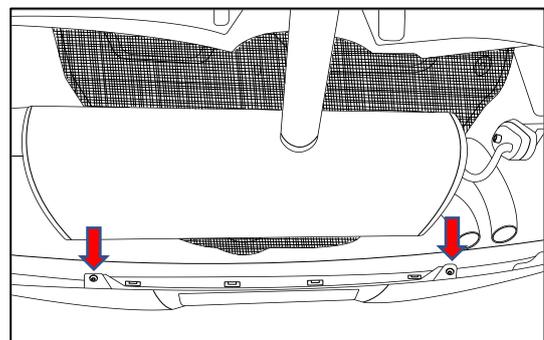


15. Remove 5x screws under the bumper

Repeat for the other side



16. Remove 2x screws under the bumper



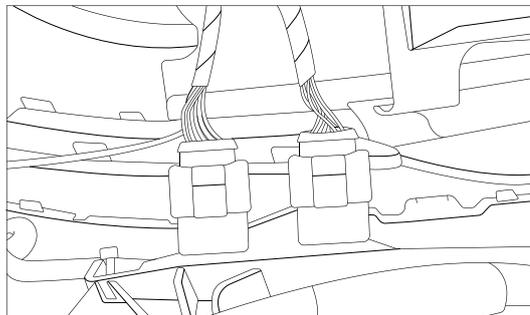


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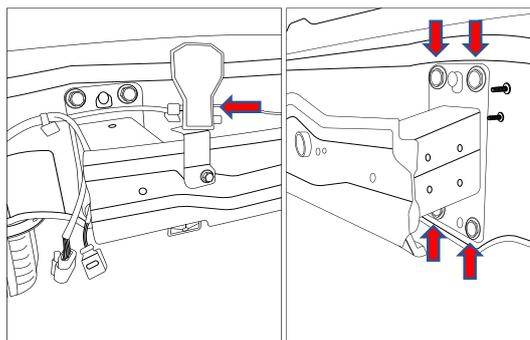
AUDI Q3 F3 CL4

17. Carefully unclip the bumper and pull the bumper rear ward.
Disconnect the sensors connector on the LHS of the bumper.
Continue pull rear ward and remove the bumper from the vehicle.

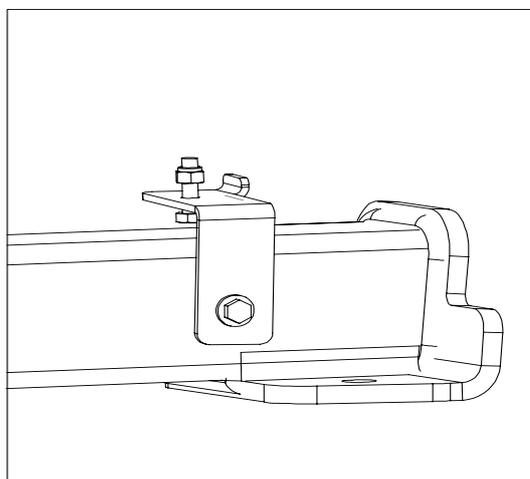


18. Disconnect the sensor.
Unscrew the nut behind the sensor and remove it from the impact beam

Unscrew 8x bolts and discard the impact beam



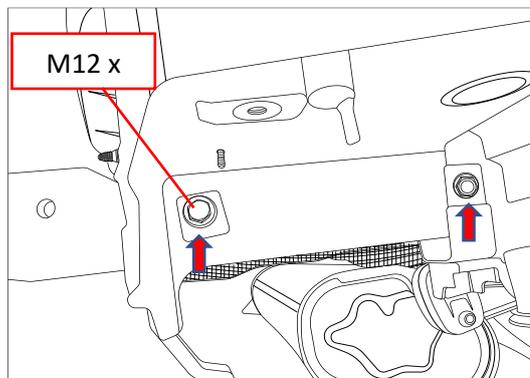
19. Assemble the supplied sensor bracket to the cross tube with 1x TEK screw, 1x M6 and 1x nut as shown



20. Peel the mounting point cover.

Place the side arm to the vehicle and secure with 2x M12x40 bolts and 2x washer

Repeat for other side

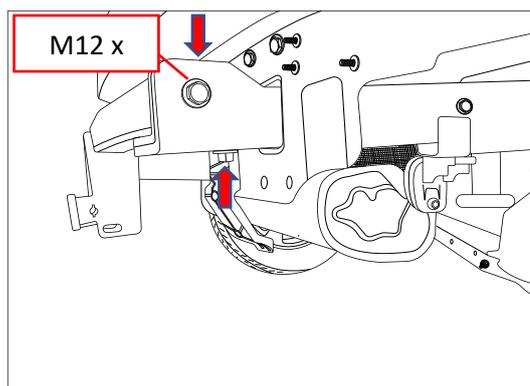


21. Fit the cross tube to the side arm.

Secure with 2x M12x50 bolts and 2x washer

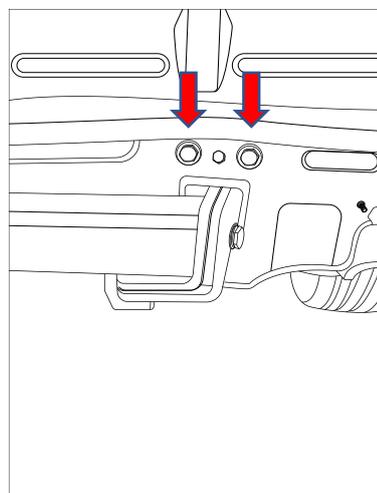
Repeat for other side

Torque all M12 bolts to 77Nm

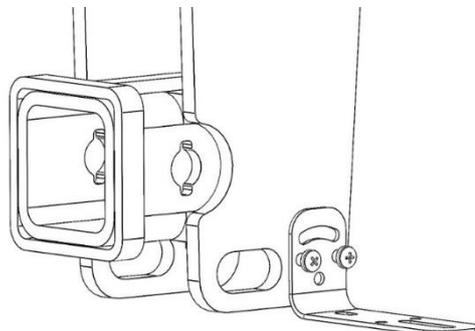


22. Reinsert the 2x bolts from the impact beam in step 17

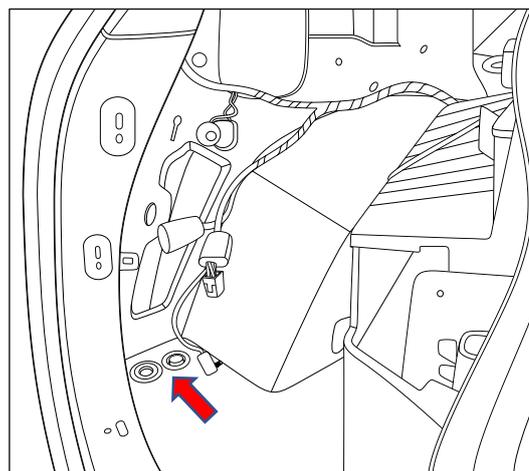
Repeat for the other side



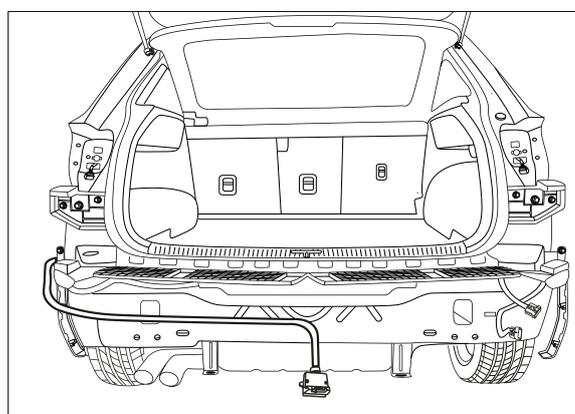
23. Reinstall the bumper.
Fit the plug bracket to the dropper and secure with 2x screws and 2x nuts.



24. Locate and remove the $\varnothing 30\text{mm}$ grommet.



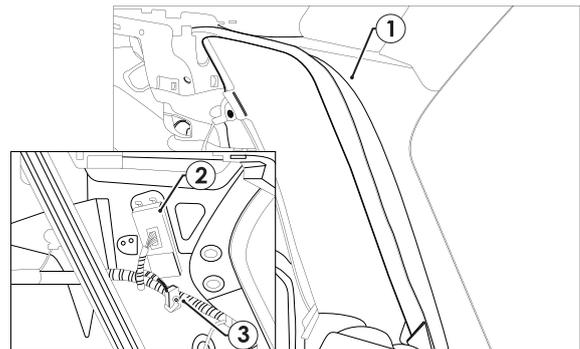
25. From outside the vehicle route and secure the tail harness (1800mm) to the towbar allowing enough length to later secure the trailer socket to plug bracket.
26. Slide the grommet to desired location, secure the grommet to the tail harness and feed through the previously exposed hole **ensure the grommet is seated properly.**
27. **Keep harness routing clear of all sharp edges, moving parts and places of extreme heat.**



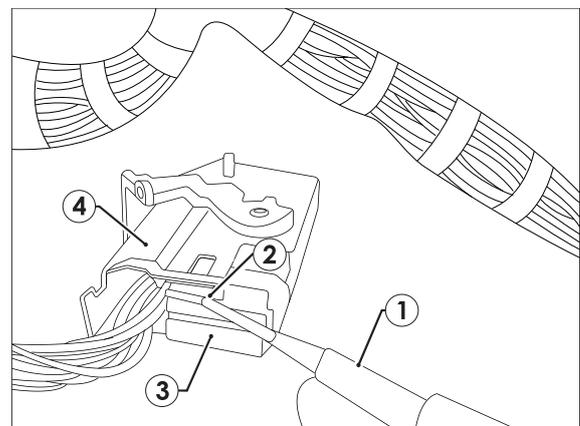
IMPORTANT

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.

28. Dislodge the trim around the seatbelt (1) enough to gain access to the 5-door control module (2).
29. Remove the 32-position black and pink connector (3) from the module.



30. Using a jeweller's screwdriver (1), lift the tab up (2) to remove the white connector body (3) from the black back shell (4).



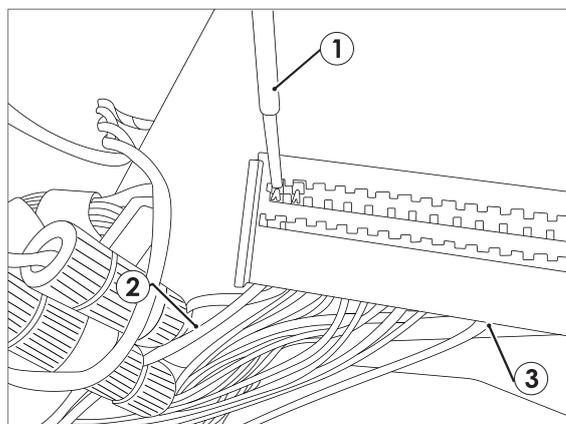


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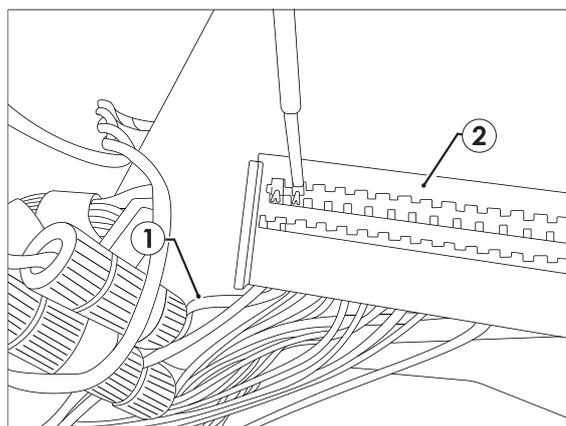
AUDI Q3 F3 CL4

31. Using a jeweller's screwdriver (1), remove the green wire (2) (CAN HIGH) from the connector body Pin 32 (3).
32. Replace the Green wire removed from the connector Pin 32 with the Orange/Green (L) wire with female terminal on the CAN EXTENSION HARNESS (2)



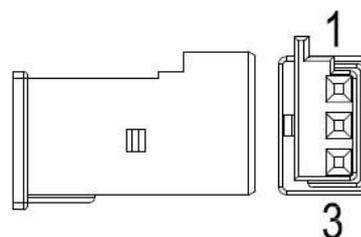
33. Remove the Orange/Brown wire (CAN LOW) (1) from the connector body Pin 31 (2). Replace the Orange/Brown wire (1) removed from the connector Pin 31 with the Orange/Brown (M) wire with female terminal on the CAN EXTENSION HARNESS (2)

Note: it is critical to ensure the CAN HIGH and CAN LOW wires removed from the vehicle are replaced with the CAN HIGH and CAN LOW wires on the patch harness.



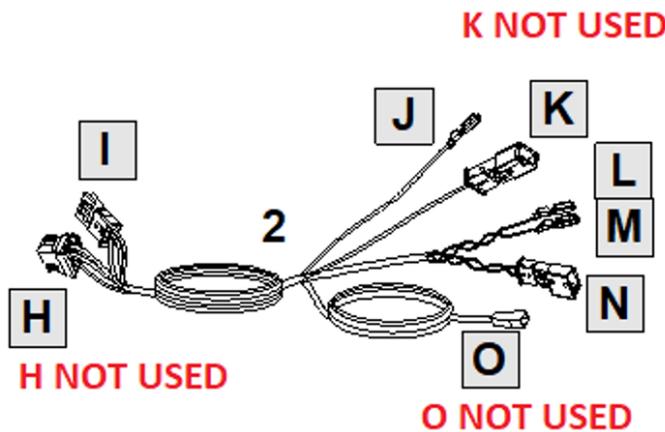
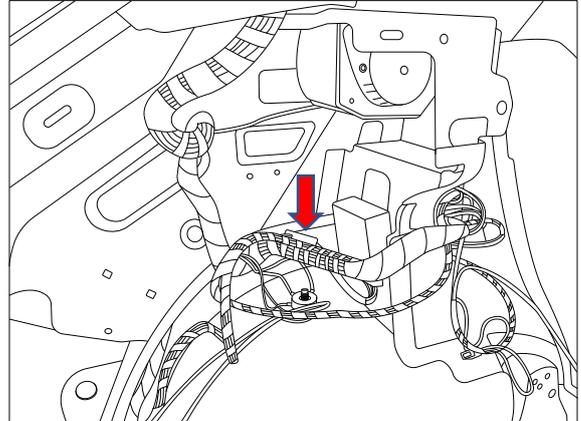
34. House the removed Green (CAN HIGH) and Orange/Brown (CAN LOW) into the 3-way black supplied female connector (6) in the following sequence.

Note: it is critical to ensure the CAN HIGH and CAN LOW wires from the vehicle are matches to the CAN HIGH and CAN LOW wires on the patch harness.

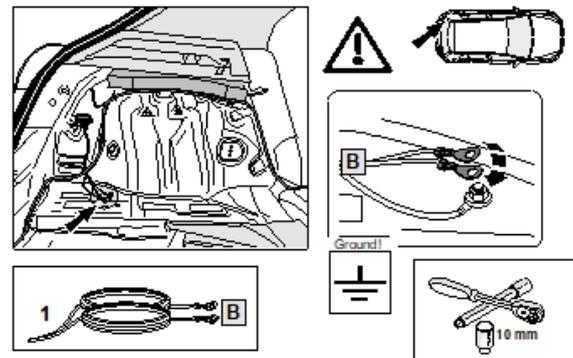


CAV	COLOUR	FUNCTION
1	GREEN	CAN-H
2	-	-
3	ORANGE/BROWN	CAN-L

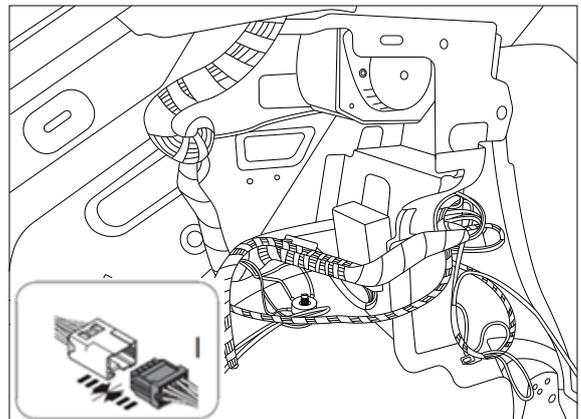
35. Untape the vehicle harness to expose vehicle brake wire Black/Red.
36. Join CAN EXTENSION HARNESS (2) Yellow/Black wire (J) to vehicle Black/Red wire.
37. The CAN EXTENSION HARNESS has the following connectors which don't get used as indicated on page 4.
38. Tape these connectors back to harness.



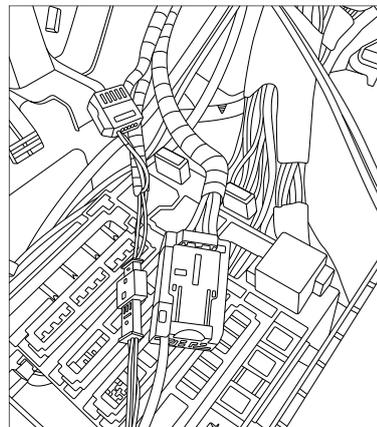
39. Connect the trailer patch ring terminals (B) to the factory ground point.



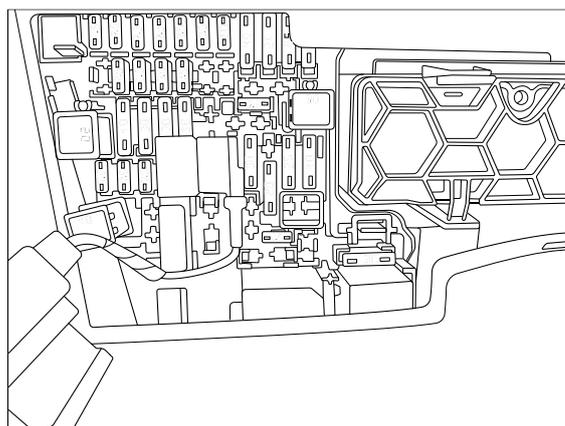
40. Connect the trailer module (5) to the trailer patch 18-way connector (E).
 41. Peel the backing tape from the trailer module (5), place module to a suitable location.
Apply pressure ensuring good adhesion.
Mount the ECU, ensuring the connector is orientated downwards.
- Plug the trailer patch blue connector (A) to mating 1800mm tail connector.



42. Connect the CAN EXTENSION HARNESS (2) 3-way black female connector (I) to the trailer patch (1) mating connector (D).
43. Retrieve and connect the POWER INPUT HARNESS (4) 6-way connector (Q) to the trailer patch mating connector (C).
44. Route the POWER INPUT HARNESS (4) 1-way connector (R) towards the glove box.



45. Open the glovebox and remove the fuse box cover.
46. Insert FUSE ADAPTOR (3) into the fuse location F38 in the orientation indicated.
47. Connect the POWER INPUT HARNESS (4) 1-way connector (R) to the FUSE ADAPTOR mating connector.



48. Secure all harnesses using cable ties.
49. Refit the rear bumper fascia.

Note: Ensure that all connections are reconnected.

50. Prior to coding test the functionality of lights using a test board if functionality passes proceed to coding of the vehicle.
51. Pay attention to the Coding instruction page. (Appendix)
52. Once the vehicle is coded test the trailer functionality with a test board.
53. Refit all removed interior parts.
54. Place fitting instructions in the glovebox when finished.



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.

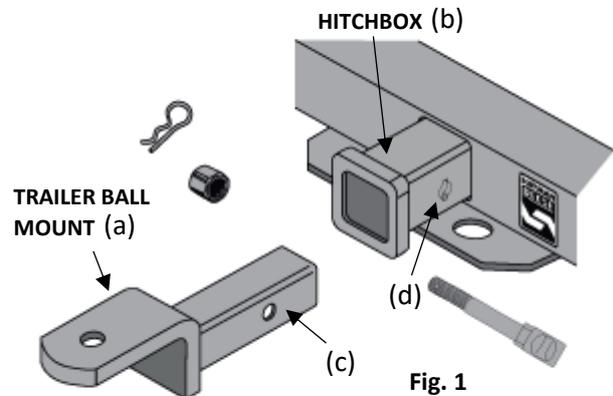
i Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- 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

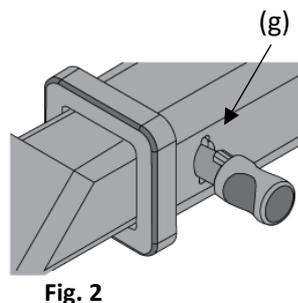
STEP 1

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



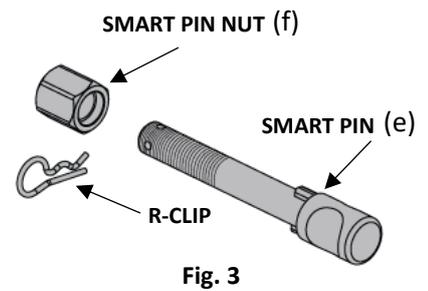
STEP 2

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)



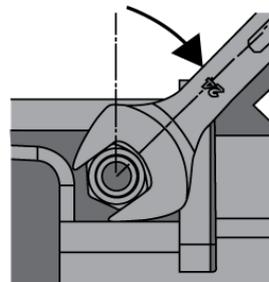
STEP 3

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.



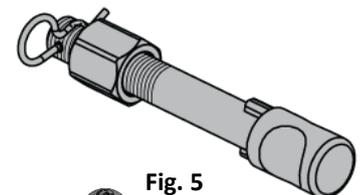
STEP 4

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



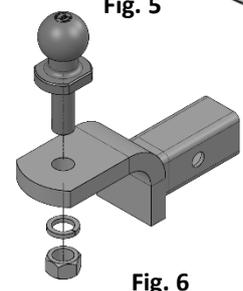
STEP 5

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).



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

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