



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03368RW

VOLKSWAGEN PASSAT B8 SERIES / SKODA SUPERB NP CL4



PRODUCT DETAILS:

Part Number:	03368RW	Maximum Towing Braked:	2200	kg
ECU Number:	WLE70024	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200 mm	Maximum Static Ball Load:	90	kg
TBM/Lug Part Number:	21148			
Wiring Part Number:	WLL90024			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	Hayman Reese SmartCODE Solution Required:	YES
Wiring Installation Time:	40 Mins.	RPA Disable/Other:	YES
Total Installation Time:	100 Mins.		
Bumper Cut Required:	Yes		

Note:

- Please refer vehicles owner's manual for proper operation and understanding of towing features enabled when coded.
(*See Appendix for added information)
- Electric Brake = Brake Prep 2-way connector.
- For Skoda vehicles equipped with DSG gear box extra coding may be required refer to step 66.



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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).

CORRECT

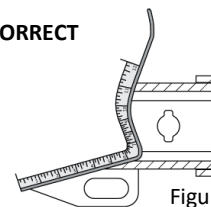


Figure 1

INCORRECT

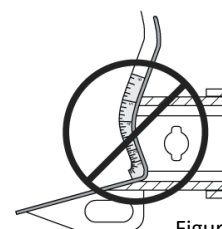


Figure 2

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

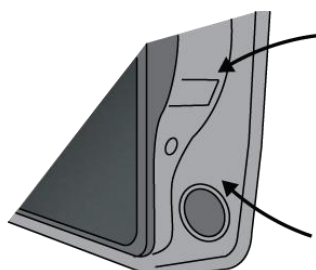
- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same grade and class are used.



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.

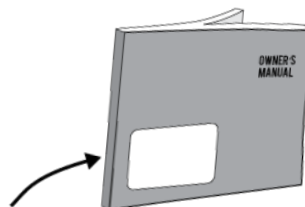
Product Labels

- 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.

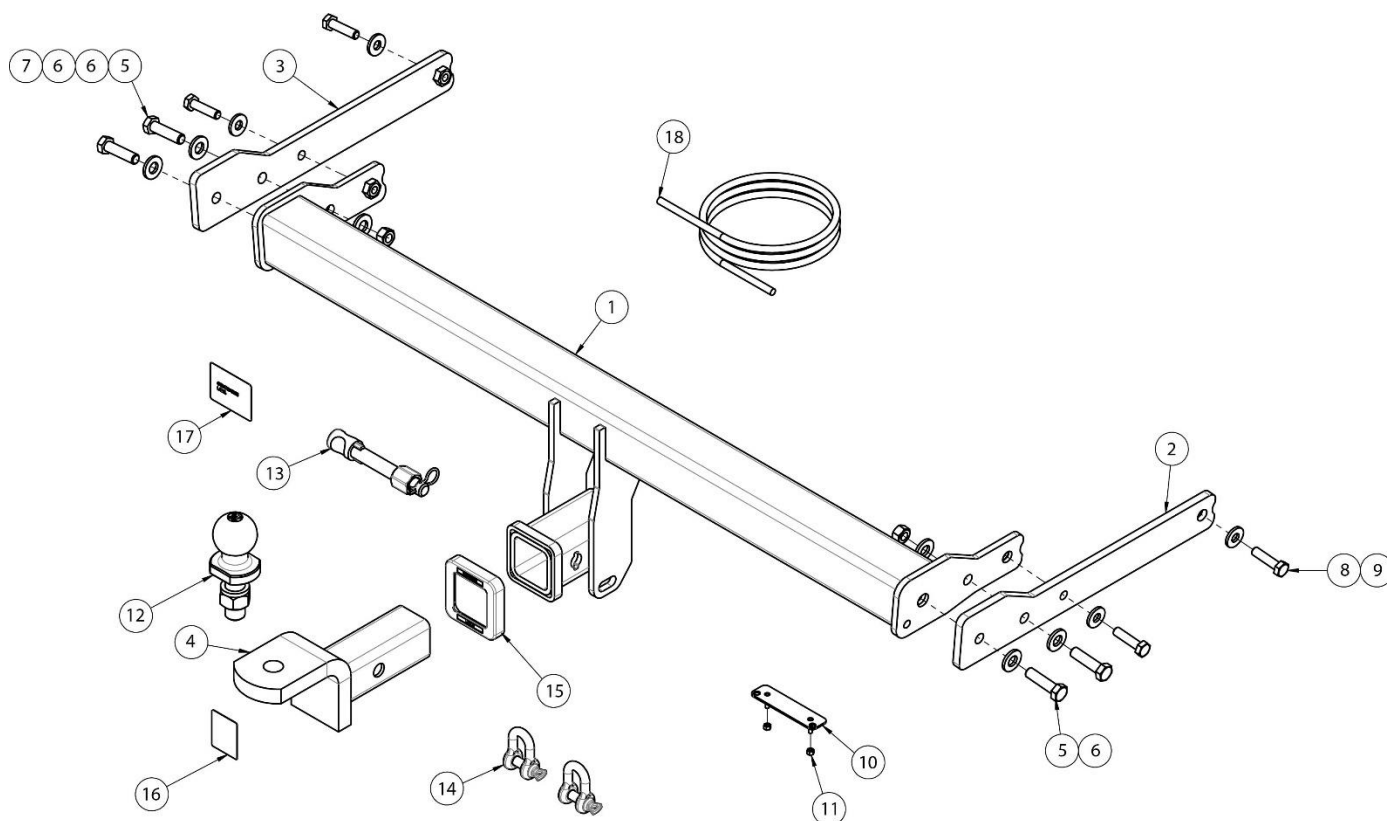


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i TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	VW PASSAT B8 WELDED ASSY	1
2	SIDEARM ASSEMBLY-RHS	1
3	SIDEARM ASSEMBLY-LHS	1
4	TRAILER BALL MOUNT	1
5	SET SCREW HEX HD M12x45x1.25P	4
6	WASHER FLAT 1/2"x1 1/8"x1/8"	6
7	NUT HEX HD M12x1.25P	2
8	BOLT HEX HD M10x40x1.25P	4
9	WASHER PLAIN M10x25.4x3	4
10	PLUG BRACKET	1
11	NUT NYLOC M4x0.7P	2
12	TOWBALL 50mm	1
13	SMART PIN GOLD	1
14	10mm "D" SHACKLE	2
15	HITCH BOX COLLAR COVER	1
16	H.R STICKER	1
17	COMPLIANCE PLATE	1
18	WIRING LOOM	1

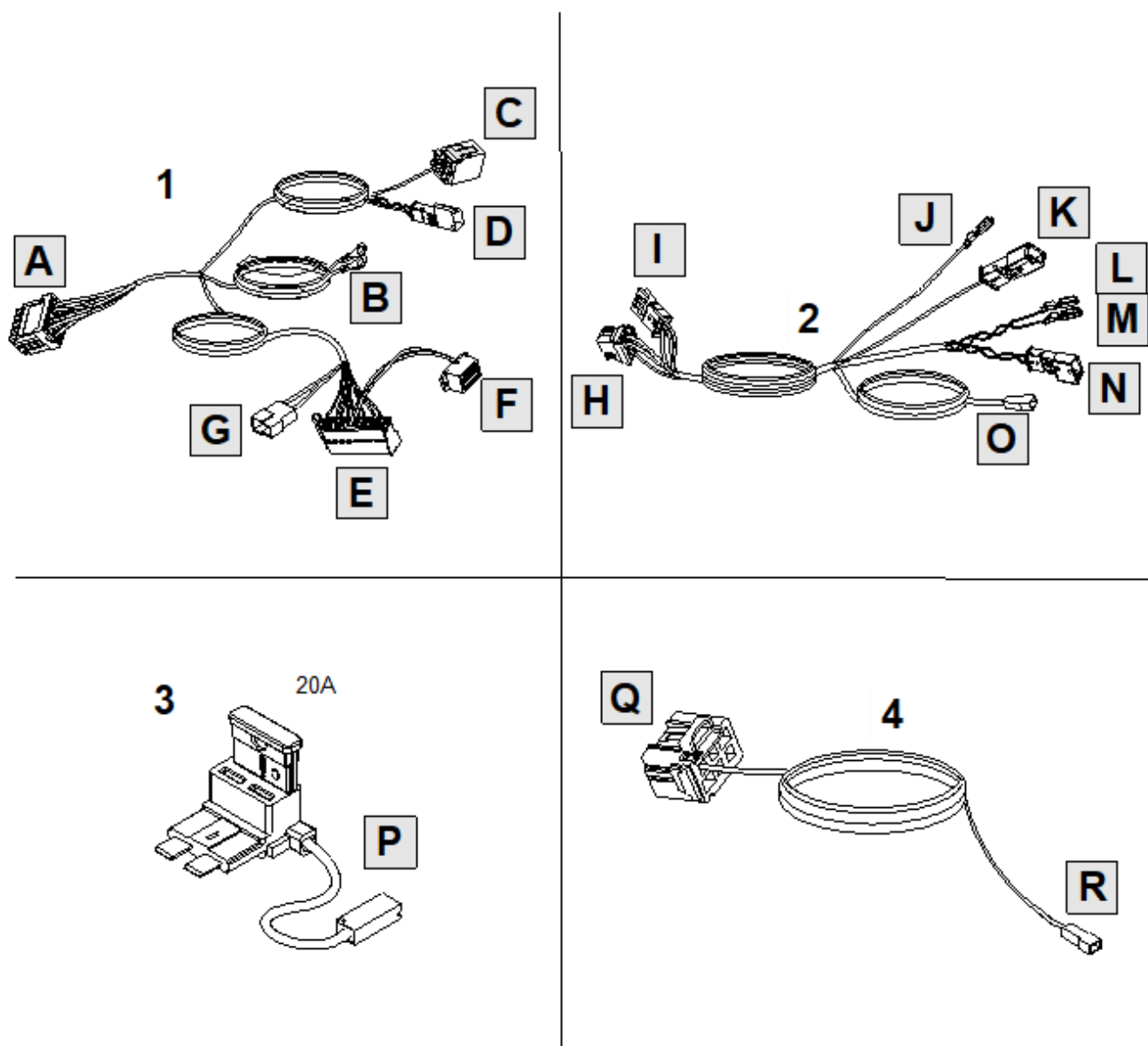


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i WIRING ASSEMBLY DIAGRAM



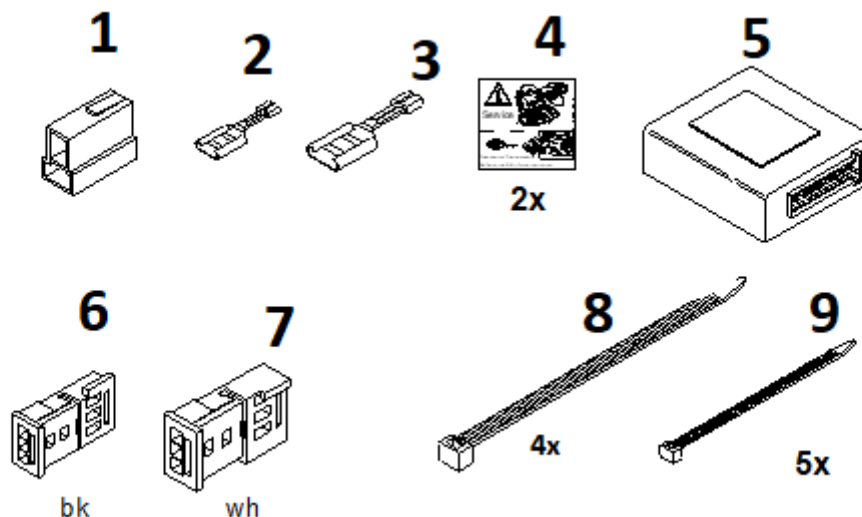
ITEM	DESCRIPTION	QTY
1	MAIN HARNESS	1
2	CAN EXTENSION HARNESS (NOT REQUIRED)	1
3	ADD-A FUSE (NOT REQUIRED)	1
4	POWER INPUT HARNESS (NOT REQUIRED)	1



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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



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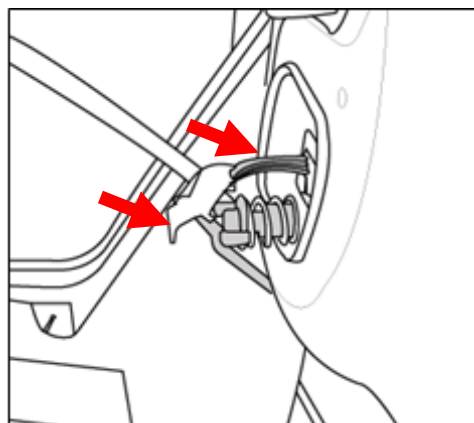
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For VW Passat vehicles proceed from Step 1.

For Skoda vehicles proceed from Step 12.

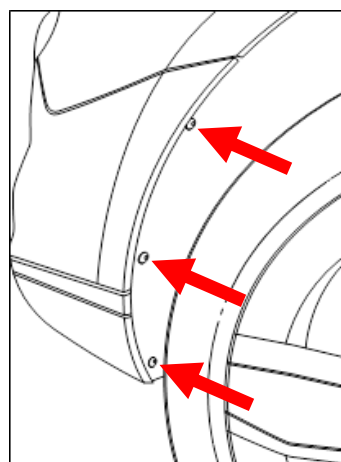
1. In the rear of the vehicle locate the LHS taillight access panel to expose the rear of the taillight.
2. Remove the spring-loaded screw securing the taillight assembly. Remove and disconnect the taillight assembly.

Repeat for RHS.



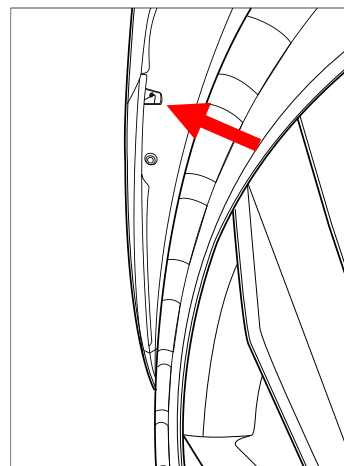
3. Remove 3 x Screws from within rear wheel arch.

Repeat for opposite side.



4. Peel back the inner lining to expose and remove the 1 x screw securing the bumper to vehicle.

Repeat for opposite side of vehicle.



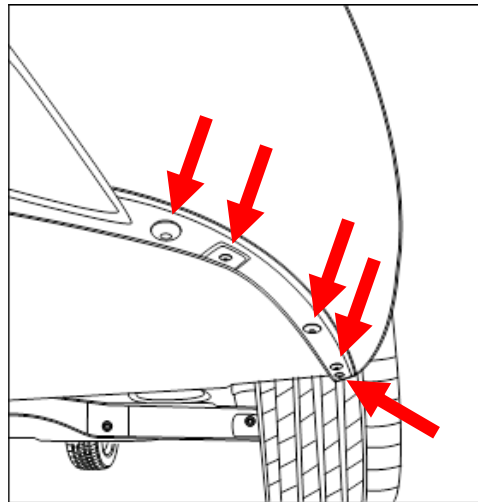


TOWBAR INSTALLATION INSTRUCTIONS

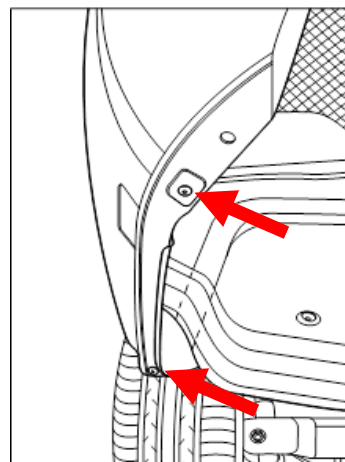
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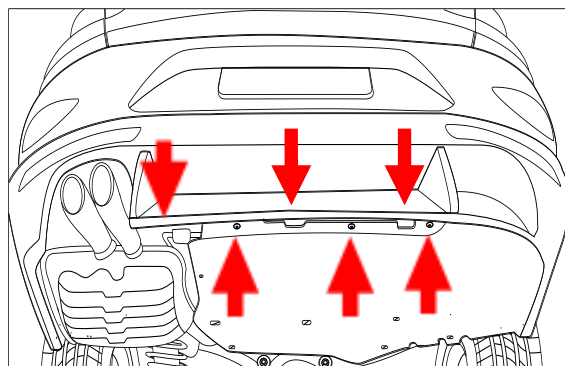
-
5. Remove 4 x Screws and 1 x Scrivet from underside of rear bumper, behind right rear wheel arch.



-
6. Remove 1 x Screw and 1 x Scrivet from underside of rear bumper, behind left wheel arch.



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7. Remove 3 x Screws and 3 x Scrivets from rear underside of rear bumper.
8. Unclip and remove rear bumper, disconnect parking sensor loom as required.



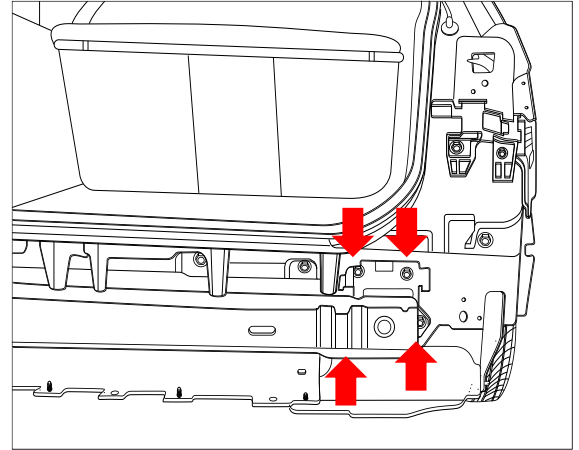


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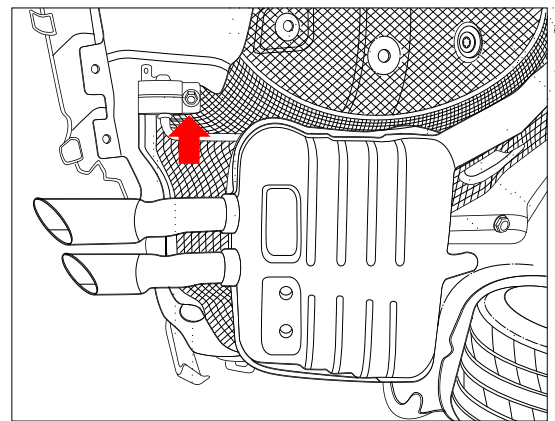
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9. Remove and discard 8 x Hex head bolts from the rear impact beam (4 per side); remove and discard rear impact beam.



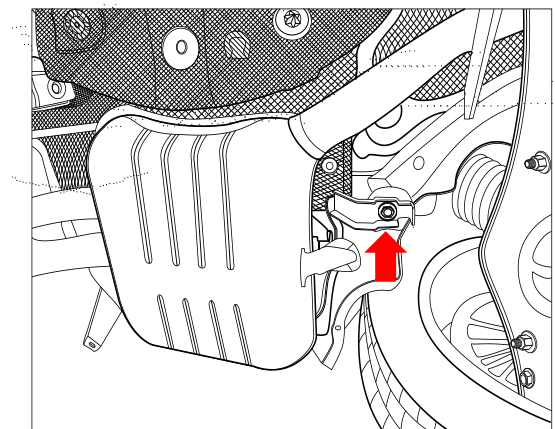
10. Remove Hex head bolt from exhaust mount rear of muffler.



11. Remove Hex head bolt from exhaust mount on forward side of muffler.

Gently lower rear section of exhaust.

Jump to step 22 to continue fitment.





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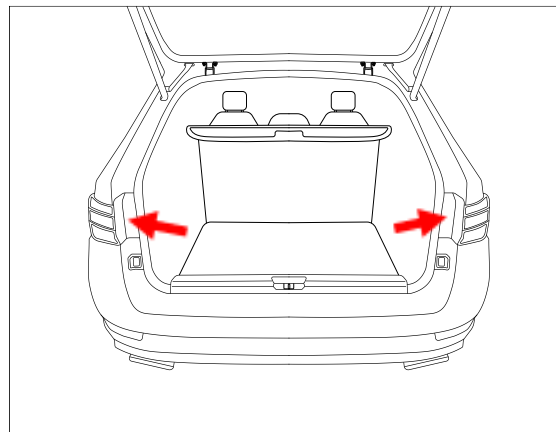
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For VW Passat fitment continue at step 22

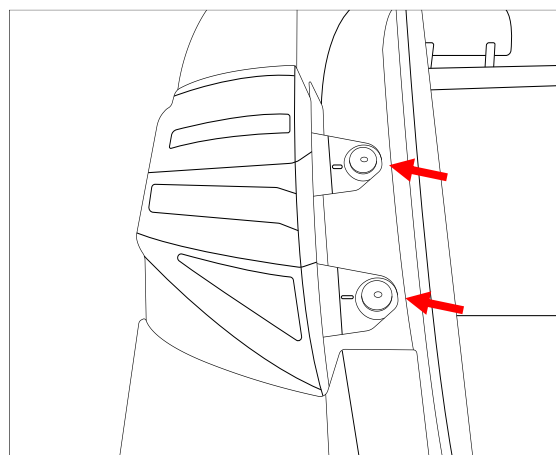
For Skoda fitment, start here.

12. Open the tailgate and remove the LH and RH taillight covers.



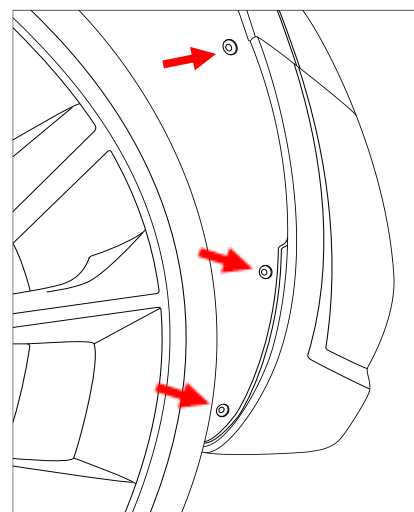
13. Remove the 2 screws to allow movement of the taillight. **(Taillights are not required to be removed).**

Repeat for the other side.

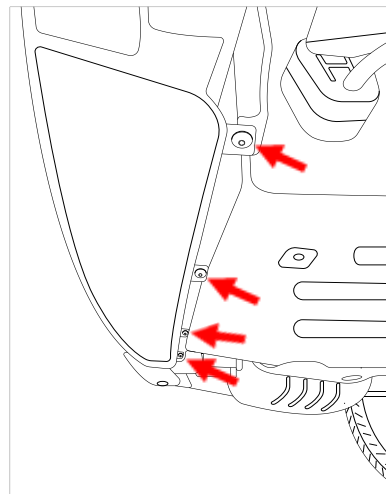


14. In the wheel arch, remove 3 x Torx screws.

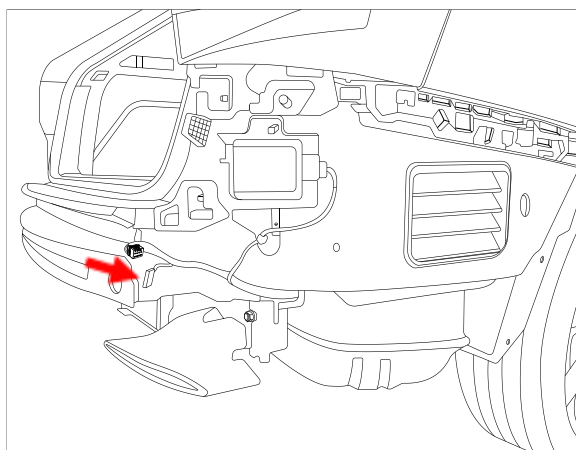
Repeat for other side.



15. Along the underside of the bumper, remove 4 x torx screw.

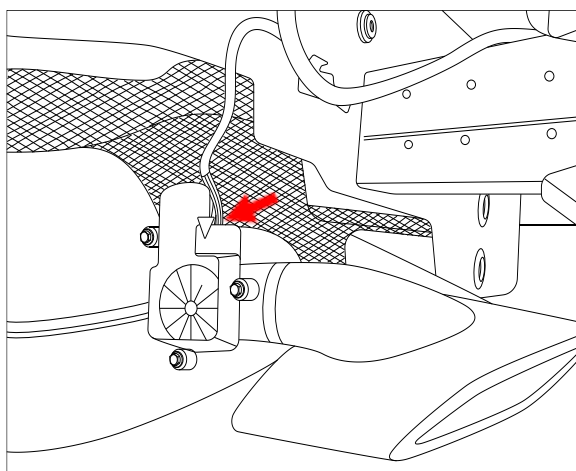


16. Peel bumper away from the sides and remove from vehicle. Ensure to disconnect the sensor harness plug located on the RH side.



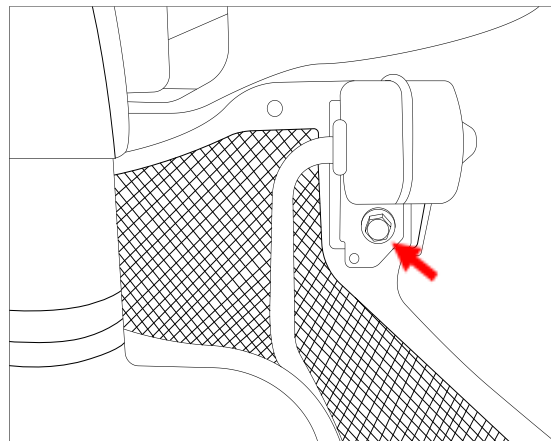
17. Disconnect the harness from the exhaust module.

Repeat for the other side.



18. Remove 1 x bolt securing the exhaust hanger bracket and gently lower the rear section of the exhaust.

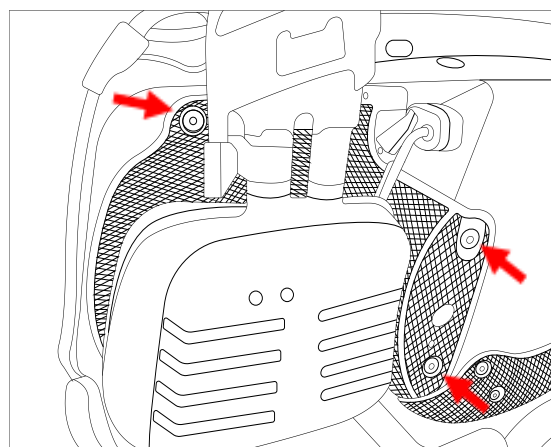
Repeat for other side.



19. Remove 4 x stud retainer plates and remove the heatshield from the vehicle.

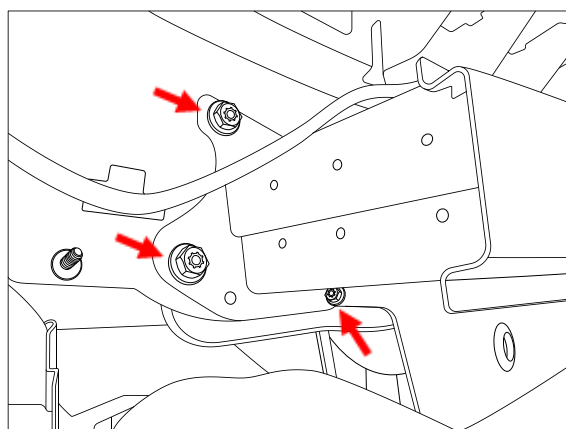
Note: The fourth retainer is not shown.

Repeat for other side.



20. Remove and discard the impact beam secured with 3 x Torx screws per side.

You may need to scrape off some of the sealant to assist with the removal of the impact beam.





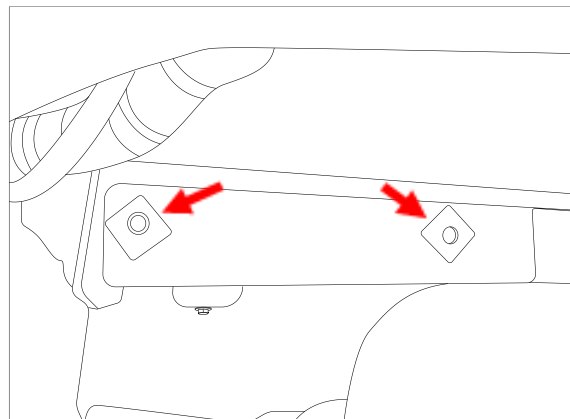
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21. On the outside, rear section of the chassis rail, locate and peel off 2 x stickers to expose the towbar mounting holes.

Repeat for the other side.

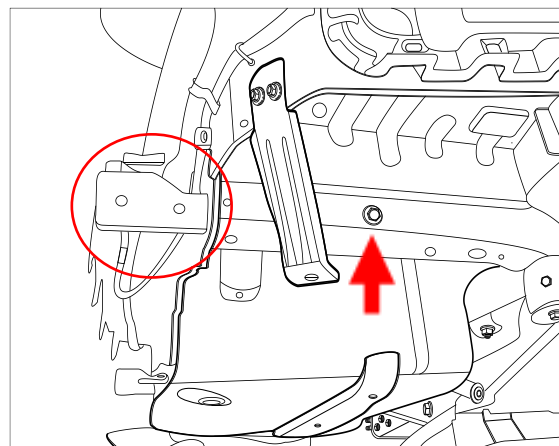


Continue from here for both the VW Passat and the Skoda models.

22. Slide sidearm assembly into chassis rail and loosely secure sidearm assembly to outboard side of chassis rail using 1 x M10 Bolt, complete with 1 x M10 Flat Washer.

Note. Sidearm's raised edge faces upwards

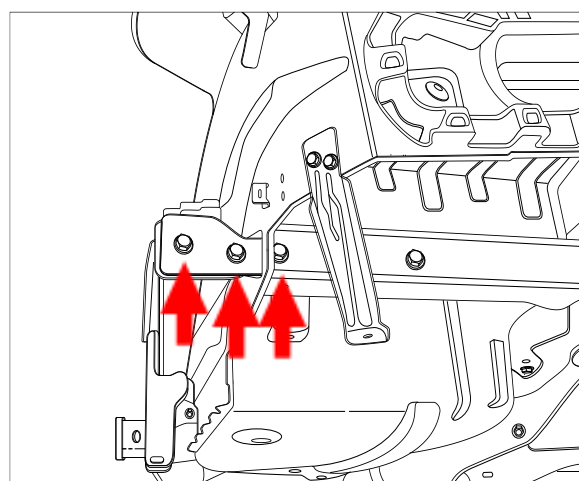
Repeat for other side of vehicle.



23. Lift the welded assembly up to the side arms and loosely secure to the 2nd chassis location along with the sidearm assemblies using 1 x M10 Bolt per side, complete with 1 x M10 Flat Washer per Bolt.

Loosely secure towbar welded assemblies' rearmost hole to the sidearm with 1 x M12 bolt per side, complete with 1 x M12 washer per bolt.

Secure the towbar welded assemblies remaining hole to the side arm with 1 x M12 bolt complete with 1 x M12 washer and 1 x M12 Nut per bolt.



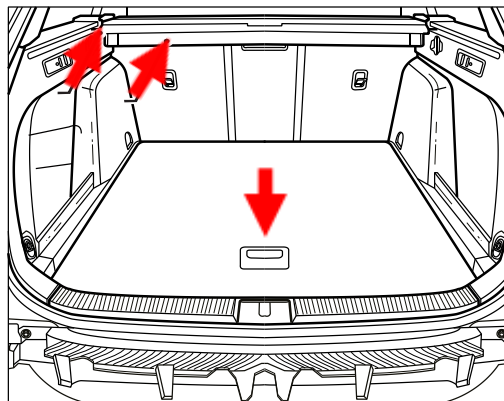
24. Tighten all fasteners to torques listed below:

M10 Bolts: 68 N.m

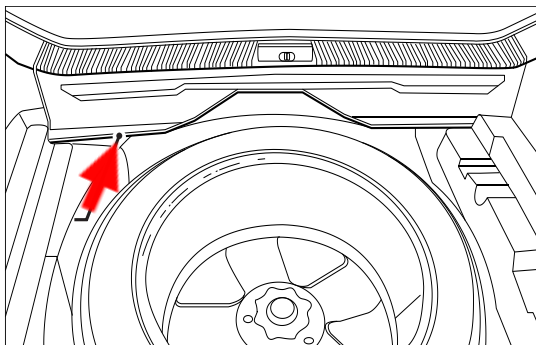
M12 Bolts: 125 N.m

All steps are suitable for both variants unless otherwise stated:

25. Remove the rear sun shade (if applicable).
26. Remove the cargo barrier attachment (if applicable).
27. Remove the floor cover.
28. Fold down the rear seats.



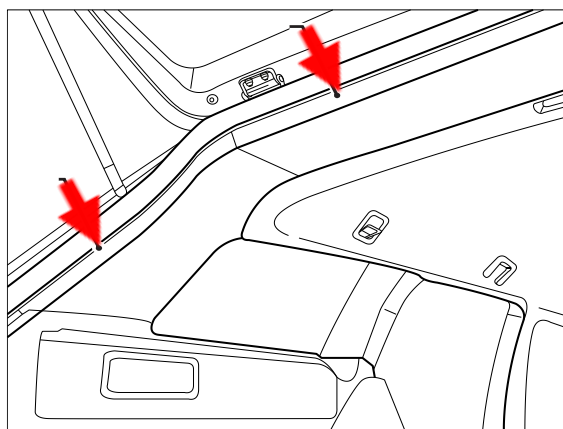
29. Remove the rear centre sill trim.



30. Remove the luggage compartment centre upper trim.

Note: this step is for VW Passat only.

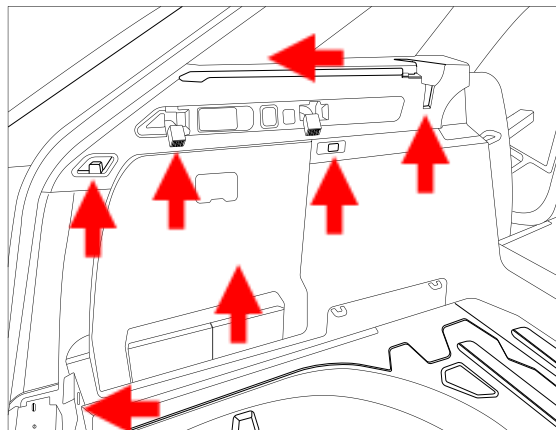
31. Remove the D-pillar trim.



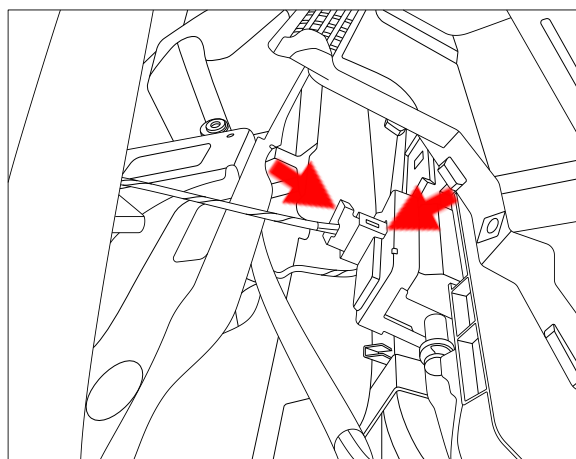
This step is for Skoda only.

Proceed to step 44 for VW Passat.

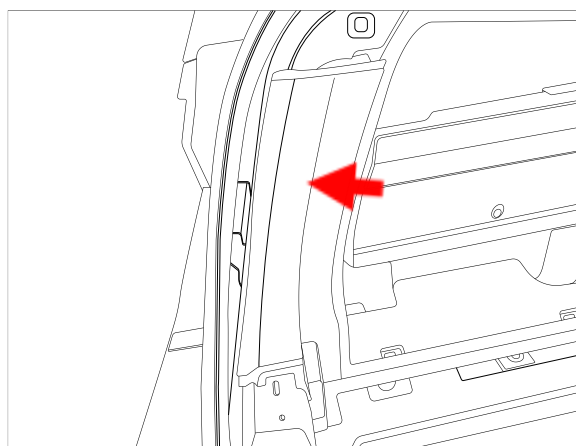
32. Release the plastic net hook to reveal a torx screw. **(to release push the hook back then push upwards).**
33. Release the 2x anchor points and remove the torx screw.
34. Remove the torx screw in the sunshade cavity.
35. Remove the scrivet in the lower section of the trim.
36. Remove the torx screw on the D – pillar.
37. Remove the rear access panel.



38. Dislodge the upper LH trim, to gain access to the connectors and rear seat release cable.
Note: Wiring behind the trim are short, dislodge the trim enough to gain access to the connectors.
39. Disconnect the 2 x Connectors.
40. Dislodge the rear seat release cable from the handle so that the upper trim can be moved over towards the centre of the vehicle.

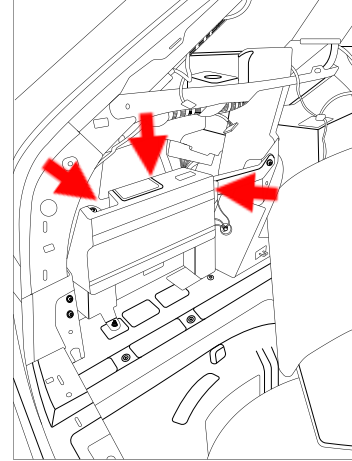


41. Remove the rear LH lower D-pillar trim to access torx screw and remove.
42. Remove the lower luggage trim.



43. If the vehicle is fitted with subwoofer remove the 2 x Torx screws and 1 x M6 nut, disconnect the connector and remove.

Proceed to step 49.

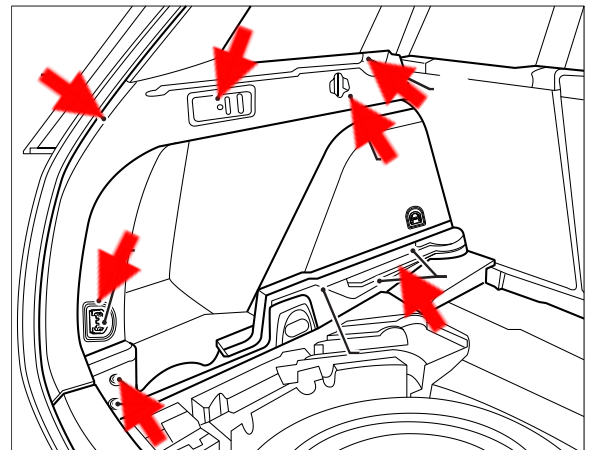


Steps 44 – 48 is for VW Passat only.

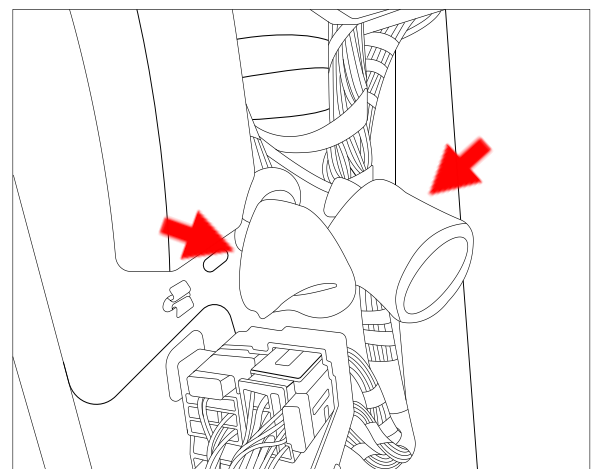
44. Remove the 9 fasteners from the LHS luggage compartment trim and dislodge to gain access to the connector and rear seat release cable and disconnect.
45. Put the trim towards the centre of the vehicle to gain access to the vehicle prewire connectors.

For Sedan models (not shown).

46. Remove the LHS lower side plastic trim and boot hinge surround trim to gain access to the LHS boot trim.



47. Remove the Front LHS kick trim to gain access to the CAN bridge connector.
48. Locate the 2 x 2-way connectors that are wrapped in foam.





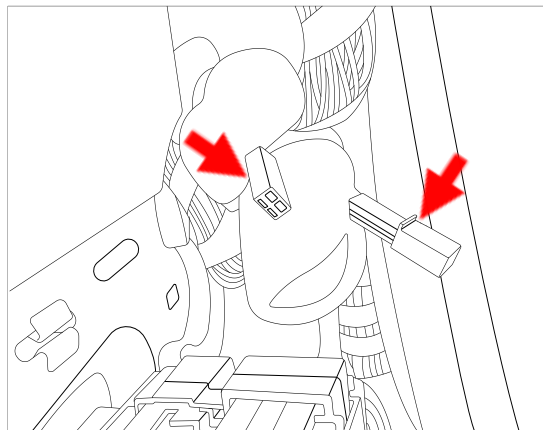
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49. Expose the 2- way connectors and mate them together.

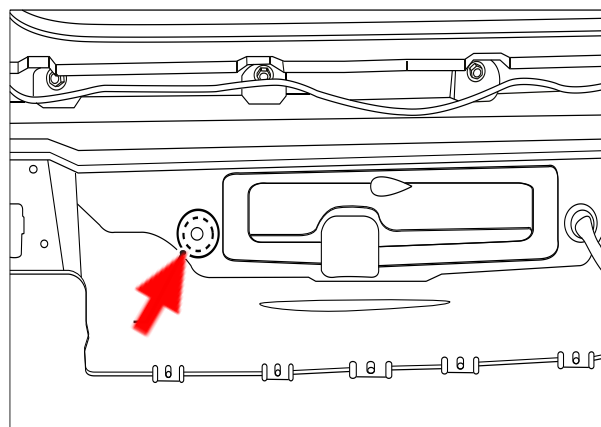
Note: Ensure the connectors are engaged properly.



Continue from here for both the VW Passat and the Skoda models.

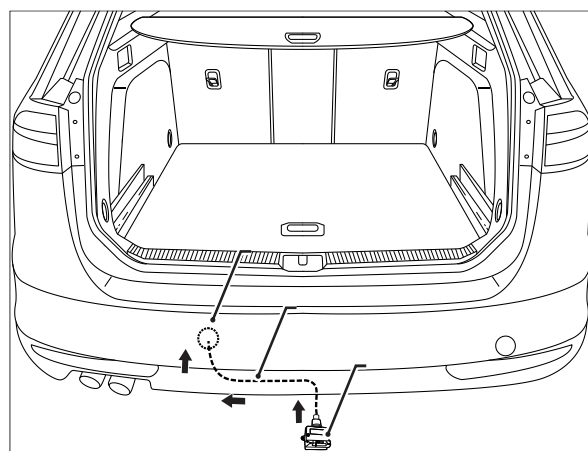
50. On the rear sheet metal drill, a $\varnothing 30\text{mm}$ hole in a suitable location.

Note: Remove all sharp edges and spray rust inhibitor.



51. From outside the vehicle route and secure the tail harness (1200mm) to the towbar allowing enough length to later secure the trailer socket to plug bracket.
52. Slide the grommet to desired location secure the grommet to the tail harness with a cable tie and feed through the hole.

Ensure the grommet is seated properly.



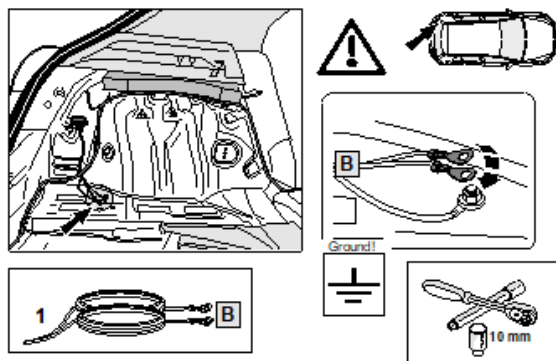


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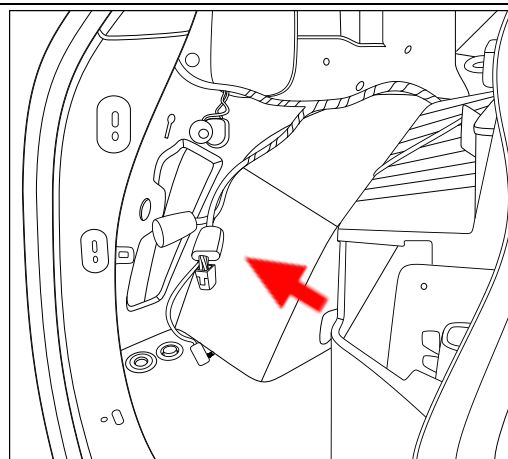
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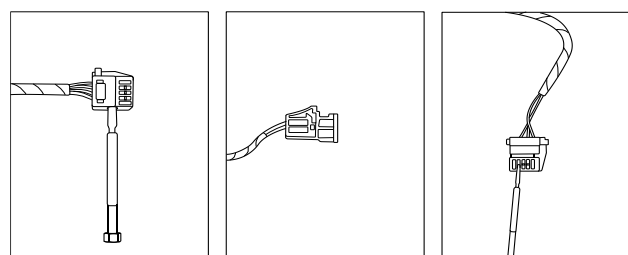
53. Connect the trailer patch ring terminals (B) to the factory ground point.



54. From inside the LHS rear of the vehicle locate the vehicle trailer prewire 6-way and 10-way connectors. **These connectors are wrapped in foam.**

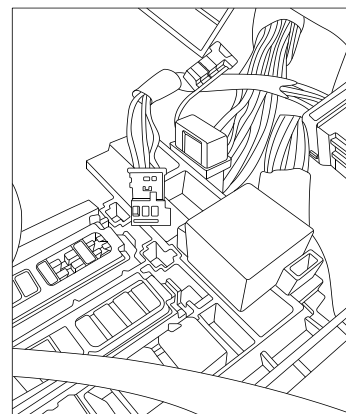


55. Locate the 10-way connector, using a jeweller's screwdriver release the secondary lock.
56. Remove the following wires, place them into the 3-way black supplied female connector (6) by pressing down on the terminal tang to release.



Vehicle 10 pin	C o l o u r	Harness 3 pin	Function
Pin 2	Black/Red	Pin 2	Brake
Pin 3	Orange/Green	Pin 1	Can hi
Pin 4	Orange/Brown	Pin 3	Can low

Note: Ensure the terminals do not make contact.



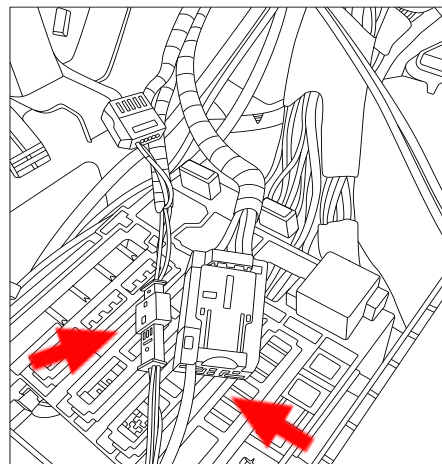


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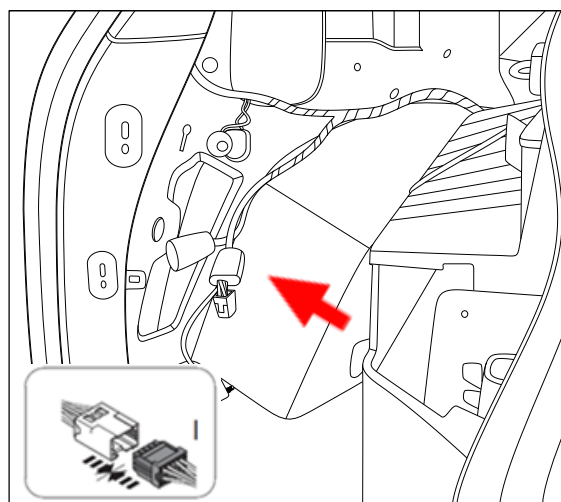
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57. Plug the trailer patch 6-way power connector (C) into the vehicle mating connector.
58. Plug the trailer patch 3-way black connector (D) into the 3-way mating connector.



59. Connect the trailer module (5) to the trailer patch 18-way connector (E).
60. Peel the backing tape from the trailer module (5), place module to vehicle wheel arch sheetmetal.
Apply pressure ensuring good adhesion.
61. Plug the trailer patch blue connector (A) to mating 1800mm tail connector.

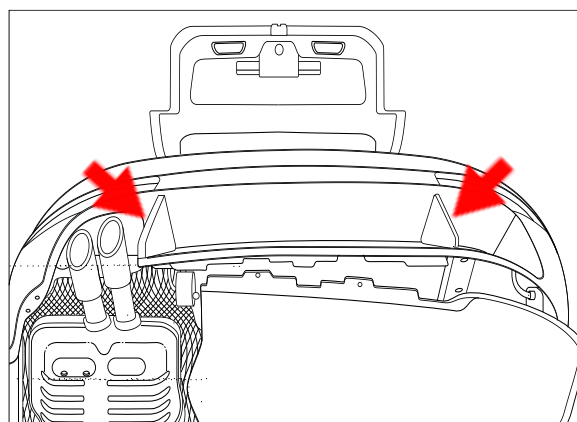


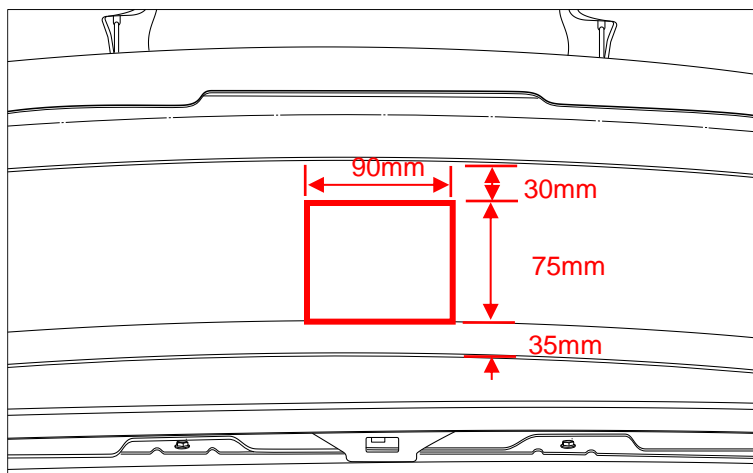
BUMPER CUT FOR VW PASSAT MODEL

62. Identify centreline of bumper, using the vanes on the underside as a guide.
63. Create bumper cut 75mm tall x 90mm wide in the location shown (Refer to next image).

IMPORTANT: Prior to creating cut, mark proposed cut and check against vehicle as validation.

Note that additional cut may be required to provide ease of fitment.

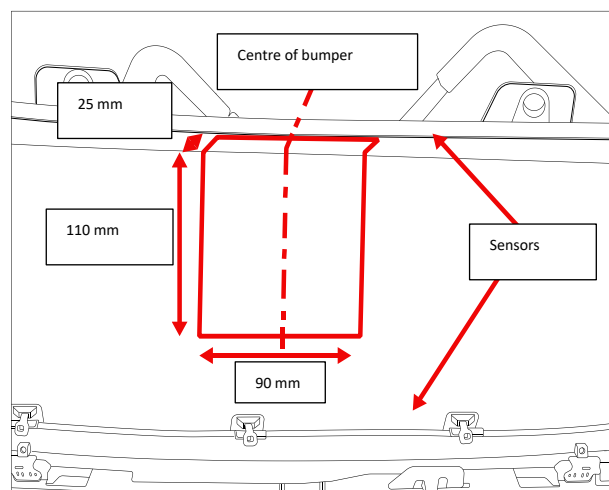




BUMPER CUT FOR SKODA MODEL

64. For bumper cut, working from the square edge on the inside of the bumper, identify centreline of bumper, measure, mark out and cut a hole 110mm tall x 90mm wide in the location shown. Cut the depth to about 25mm.

Ensure that you do not damage the 2 x foot swipe sensors running along the edge of the bumper
Note that additional cut may be required to provide ease of fitment.

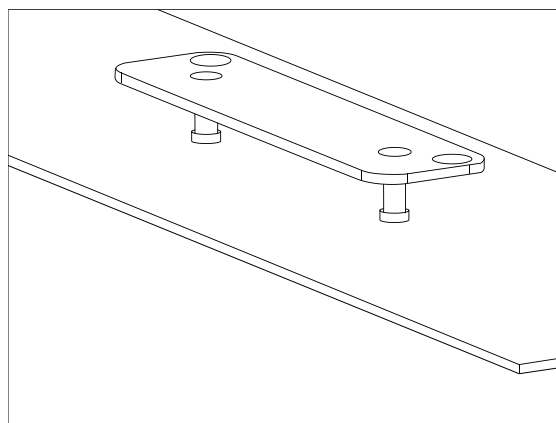


65. Mark out and drill 2x $\varnothing 5$ mm holes 69mm apart on bumper skin to support plug bracket. Feed bracket threads through drilled holes prior to reinstalling bumper.

66. **For Passat model**, reinstall bumper and other removed components following steps 1 -11 and 44 - 46 in reverse order.

67. **For the Skoda model**, reinstall bumper and other removed components following steps 12 ~ 19, 32 ~ 43 in reverse order.

**Note: Ensure that all connections are reconnected.
Secure harnesses ensure no rattles and squeak.**





TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03368RW

VOLKSWAGEN PASSAT B8 SERIES / SKODA SUPERB NP CL4

68. Next step is coding of vehicle. Pay attention to the "SmartCode" instruction page. (Appendix)



IMPORTANT

FOR SKODA ONLY

69. If vehicle is fitted with DSG gearbox extra coding may be required, Code the vehicle first and test functionality of the TWH, ensure all parking and safety systems are disabled when trailer plug connected. If they are not disabled (please contact Hayman Reese technical services. 1800 812 017).

To confirm that the vehicle has DSG look at the gear stick.

FOR PASSAT

70. Once the vehicle is coded test the trailer functionality with a test board.

71. 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.**

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.

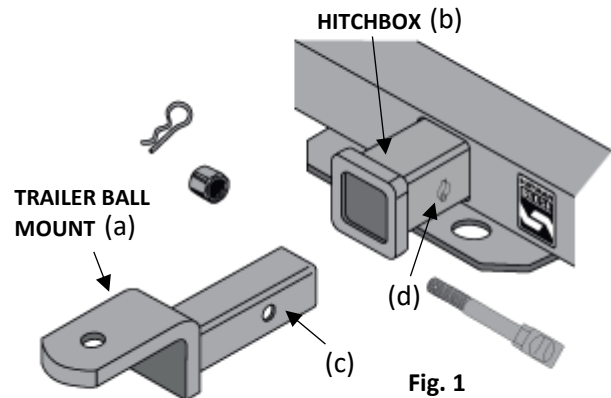
i Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- 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

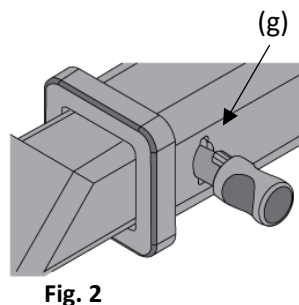
STEP 1

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



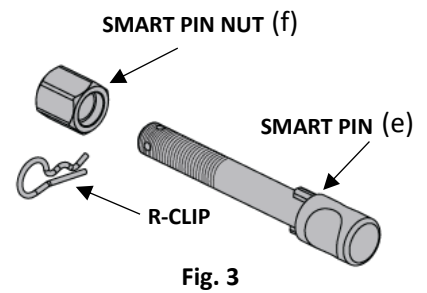
STEP 2

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)



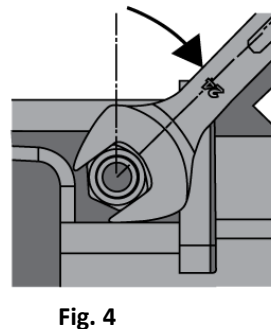
STEP 3

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.



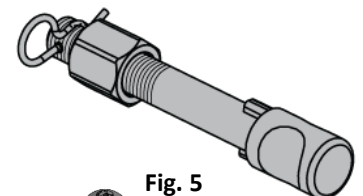
STEP 4

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



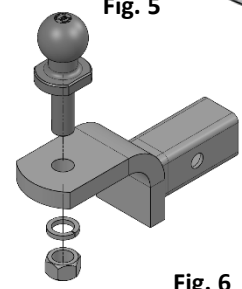
STEP 5

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