TOWBAR
INSTALLATION INSTRUCTIONS

PART NUMBER 03500RW

BMW X5 G05 CL4



PRODUCT DETAILS:

Part Number:	03500RW	**Maximum Towing Braked:**	3500	kg
ECU Number:	04826	**Maximum Towing Unbraked:**	750	kg
Tail Harness Length Required:	1800 mm	**Maximum Static Ball Load:**	350	kg
TBM/Lug Part Number:	21375			
Wiring Part Number:	102178-WL			

FITTING DETAILS:

Towbar Installation Time:	120 min.	**Hayman Reese SmartCODE Solution Required:**	NO
Wiring Installation Time:	60 min	**RPA Disable/Other:**	NO
Total Installation Time:	180 min	**Note**	
Bumper Cut Required:	Yes		

- Electric Brake = Brake Prep Connector.
- Ensure when towing coasting mode / ECO mode must be disable.
- RPA is via switch on dash.
- Vehicle trailer fuse location F240/F267/F289

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ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT.

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).

CORRECT

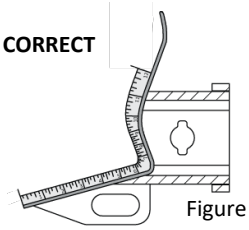


Figure 1

INCORRECT

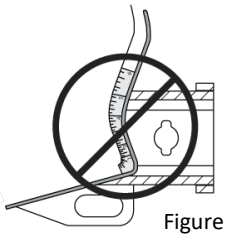


Figure 2

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.

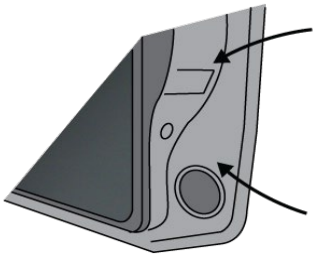
Bolts/Fasteners

- 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.

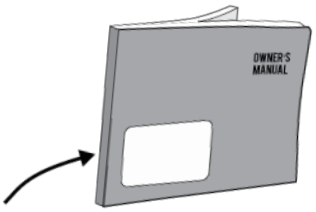
Product Labels

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 V**ehicle 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.

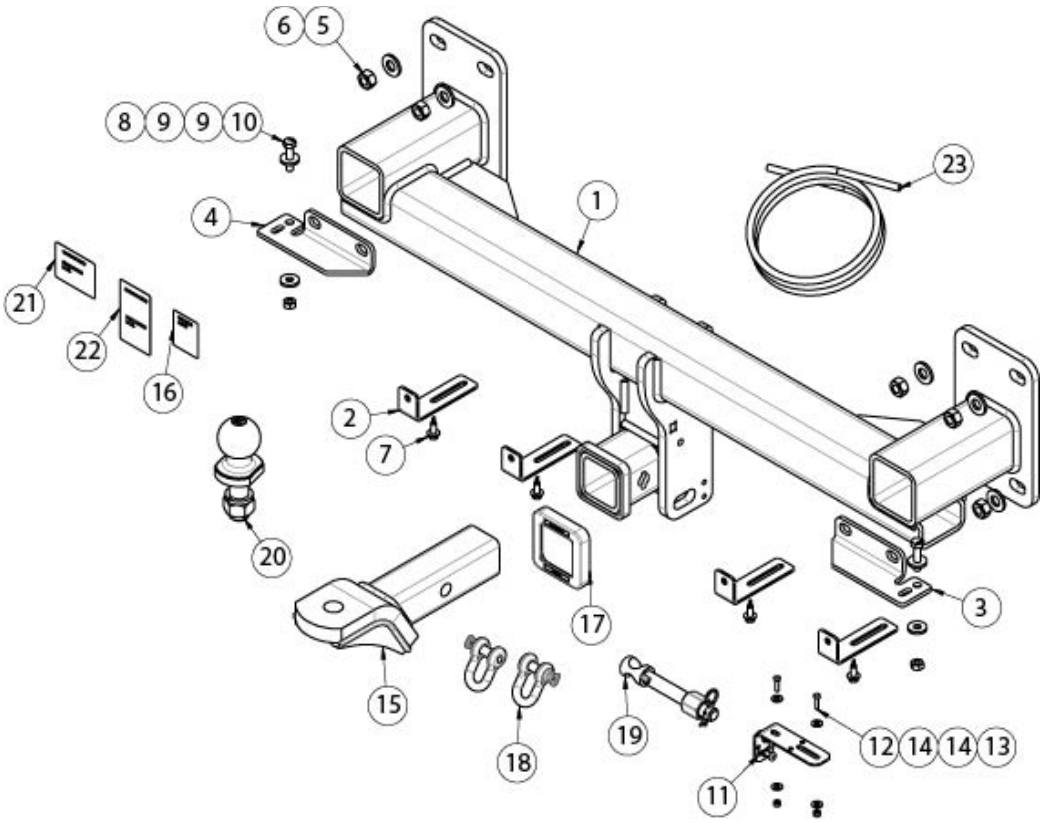
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TOWBAR ASSEMBLY DIAGRAM

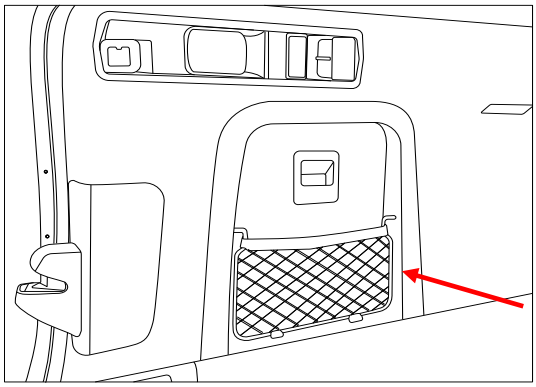


ITEM	DESCRIPTION	QTY
1	BMW X5 WELDED ASSEMBLY	1
2	KICK PANEL BRACKET	4
3	EXHAUST BRACKET RHS	1
4	EXHAUST BRACKET LHS	1
5	NUT HEX HD M12x1.5P	8
6	WASHER PLAIN 1/2"	8
7	TEK SCREW 14-20 HEX HD 22mm	4
8	NUT HEX HD M8x1.25P	2
9	WASHER PLAIN M8x22x3	4
10	BOLT HX HD M8x35x1.25P	2
11	UNIVERSAL PLUG BRACKET KIT	1
12	SCREW PAN HD M4x16x0.7P	2

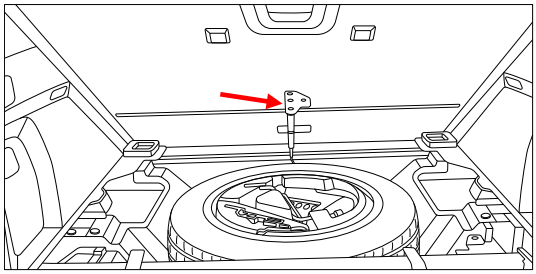
ITEM	DESCRIPTION	QTY
13	NUT NYLOC HEX HD M4x0.7P	2
14	WASHER PLAIN 3/16x1/2x20G	4
15	TRAILER BALL MOUNT	1
16	HAYMAN REESE LOGO STICKER	1
17	HITCH BOX COLLAR COVER	1
18	“D” SHACKLE 10mm	2
19	SMART PIN GOLD	1
20	TOWBALL 50mm	1
21	COMPLIANCE LABEL	1
22	LOAD RATING LABEL	1
23	WIRE LOOM	1

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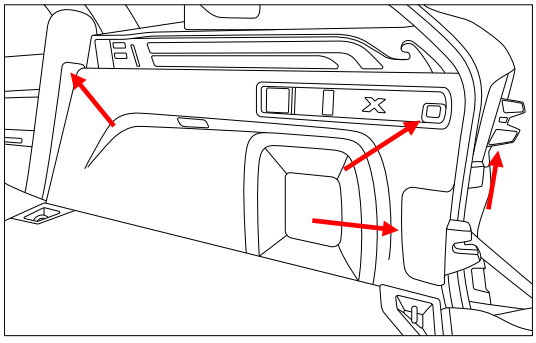
1. Open tail gate and remove the LH and RH side covers in the luggage compartment.



2. Locate remove the cargo floor hinge screws.
   a. Lift the luggage floor, release the upper strut retainer.
   b. Lower the luggage floor trim and remove the 2xhinge screws.
   c. Remove the luggage floor trim from vehicle.
   d. Fold down the second-row seats.



3. Dislodge the RHS lumber support seat cushion and place in centre of vehicle.

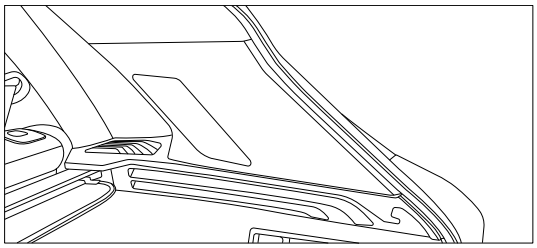


Note: Care must be taken as this has Airbag clip and harness.

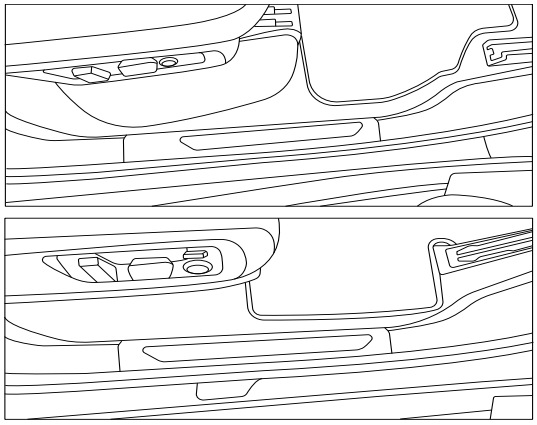
4. Remove the plastic cover to expose the 1x torx screw.
5. Remove the tailgate locking mechanism cover.
6. Dislodge the RHS lower luggage trim enough to gain access to the luggage light and aux connectors.
7. Disconnect the connectors and remove the luggage trim.

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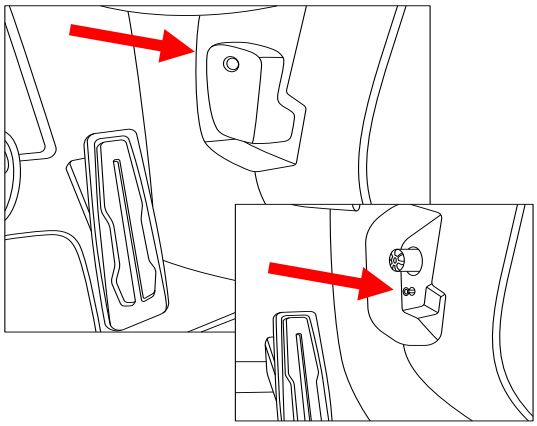
8. Remove RHS upper D-Pillar trim.



9. Remove RHS rear passenger sill trim.
10. Remove drivers side sill trim.



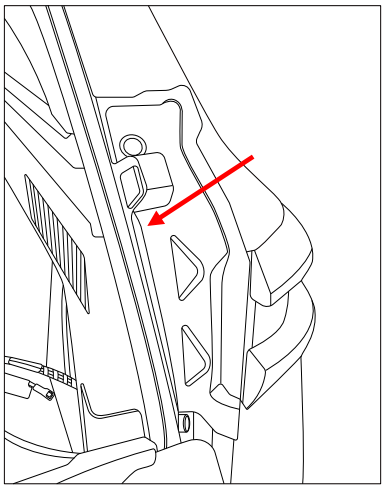
11. Unscrew the bonnet release handle to expose a torx screw that secures driver side kick trim.
12. Remove the screw and kick trim.



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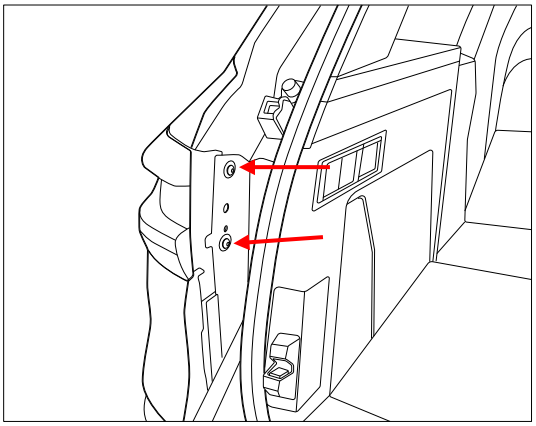
13. Unclip and remove cover from the water channel.

    Repeat for opposite side.



14. Remove 2 x exposed screws securing the taillight.

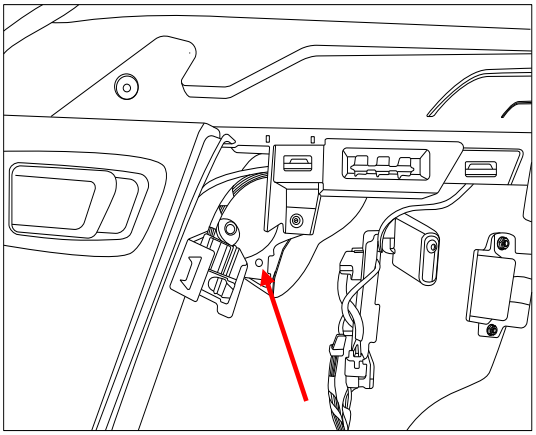
    Repeat for opposite side.



15. In the luggage compartment, remove 1 x nut securing the side of the taillight.

    Remove taillight rearwards and disconnect from wiring harness.

    Repeat for opposite side.

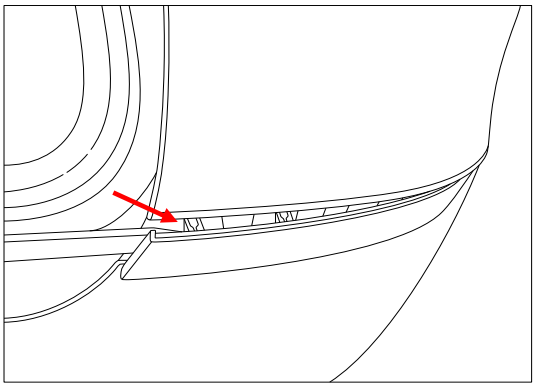


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16. Remove reflector from bumper (push plastic tool from the side to release clip).

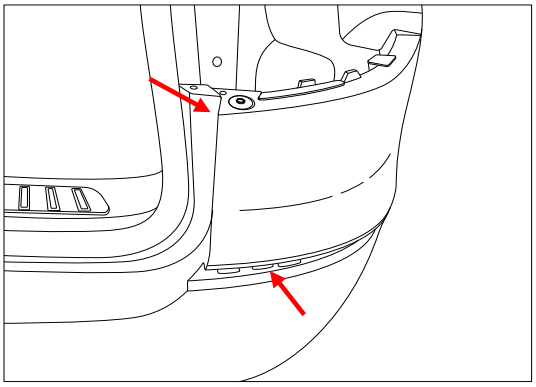
    Ensure to disconnect any plug connections on RHS.

    Repeat for opposite side.

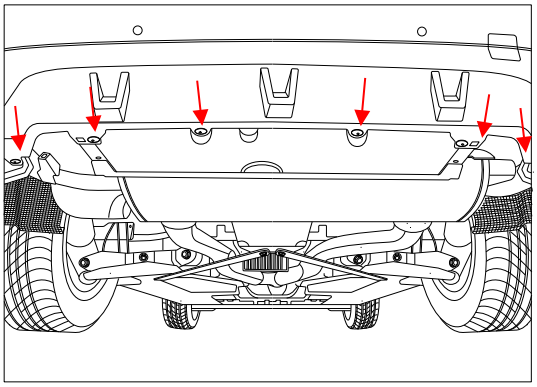


17. Remove 2 x screws located on the bumper and in the reflector cavity.

    Repeat for opposite side.

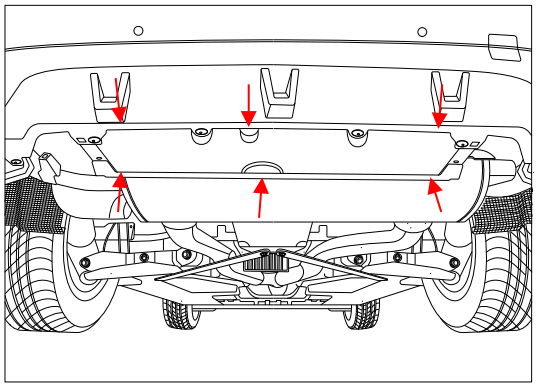


18. Remove 10 x screws from the bottom edge of the bumper.



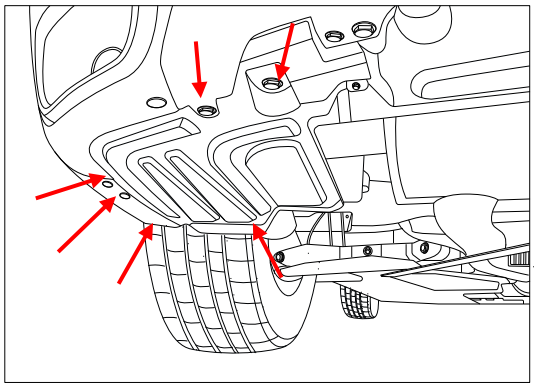
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19. Remove and discard the centre underside protector secured with 6 x screws.



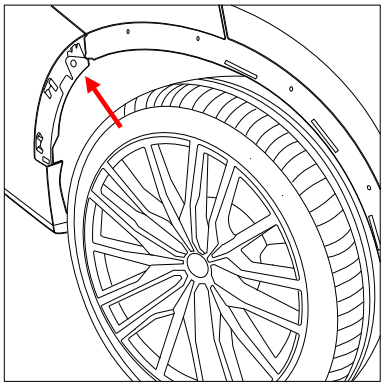
20. Remove the LHS underside protector secured with 6 screws.

    Repeat for opposite side.



21. Remove RHS wheel arch trim to expose 1 x screw. Remove the screw.

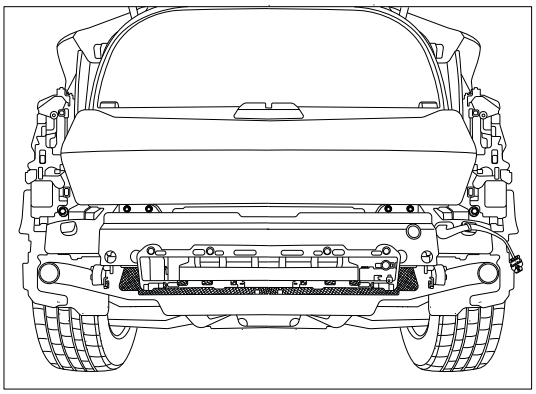
    Repeat for opposite side.



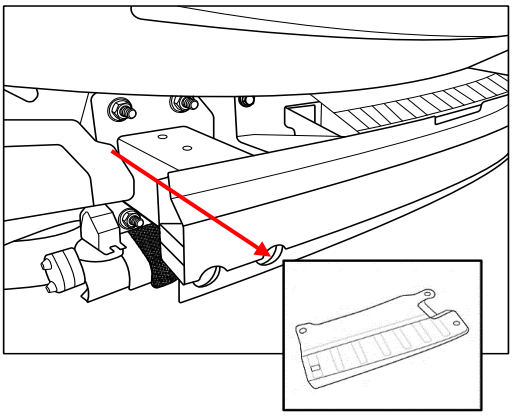
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22. Peel the bumper away from the sides and remove.

    Ensure to disconnect any plug connections located on the RH side.

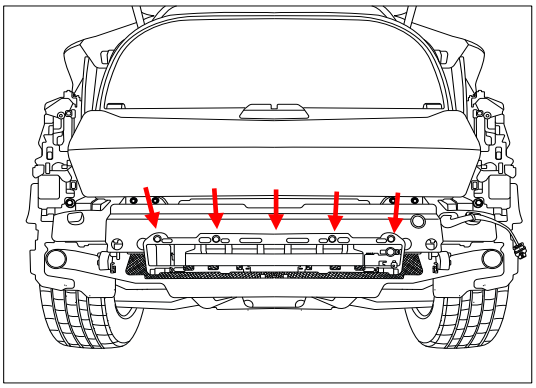


23. Remove LHS & RHS of tailgate cover to gain access to upper fasteners securing impact beam.



24. Remove the plastic kick panel from the impact beam secured with 5 x scrivets. Retain scrivets for installation.

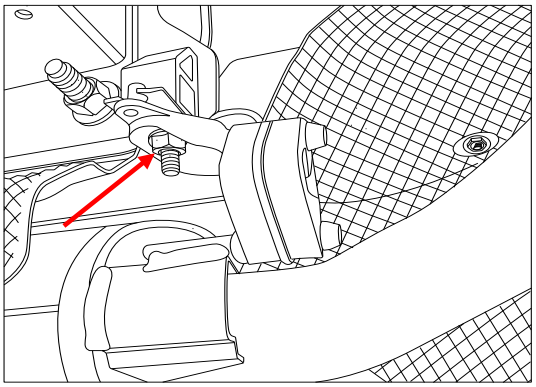
    Ensure to disconnect the centre plug connection and supporting clip located on the RH side.



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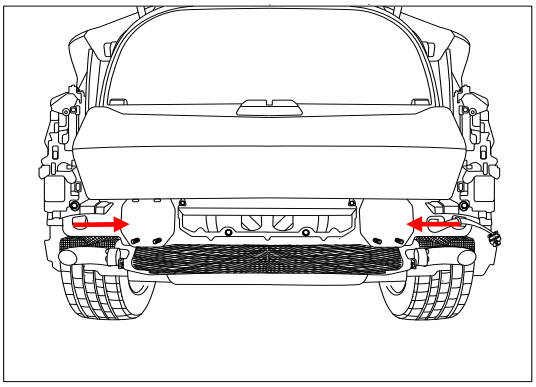
25. Remove the exhaust hanger bracket from the impact beam secured with 1 x nut.

    Repeat for opposite side.

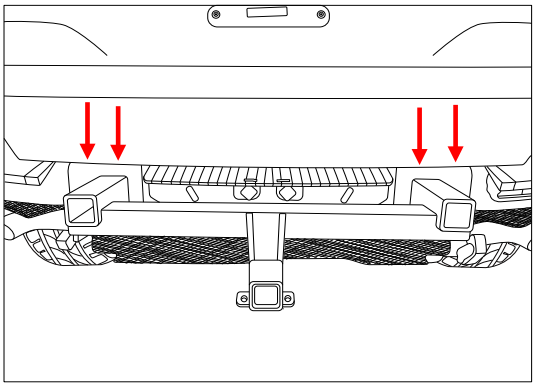


26. Remove and discard impact beam secured with 4 x M12 nuts per side. Discard fasteners.

    Ensure the water ingress seal behind the impact beam remains intact and on the vehicle.



27. Position towbar onto vehicle and secure the top 4x mounting studs (LH and RH side) with 4x M12 nuts with 4x M12 washers.



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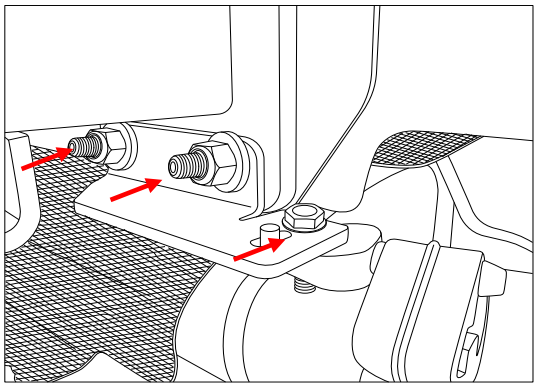
28. Position the exhaust bracket onto the lower 2 mounting studs and loosely secure with 2x M12 nuts and 2x M12 washers.

    Secure exhaust hanger to exhaust bracket with 1 x M8 bolt complete with 2 x washers and 1 x nut.

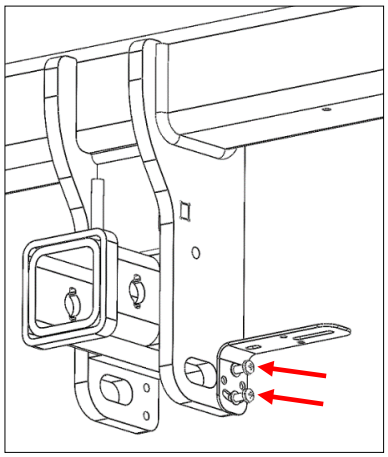
    Repeat to the other side.

    Torque all M8 fasteners to 22Nm.

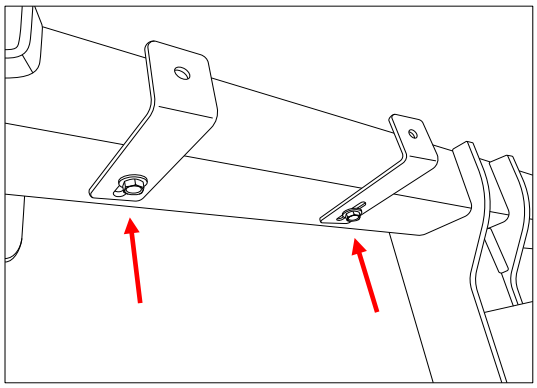
    Torque all M12 fasteners to 90Nm.



29. Fit the plug bracket to the side of the towbar dropper with M5 fasteners provided.



30. Loosely secure the 4 x kick panel brackets with 4 x tek screws (1 per tab).

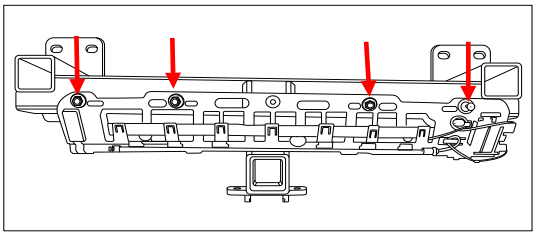


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31. Secure the kick panel onto the 4 kick panel brackets with 4 x scrivets (retained from step 13).

    Adjust position of kick panel brackets where necessary then tighten tek screws.

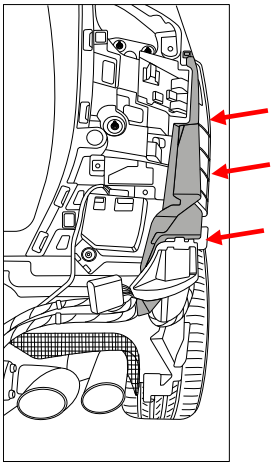
    On the RHS reconnect the centre plug connection and supporting clip of the sensor holder removed in step 14.



Note: Remove the RHS vent to assist in fitment.

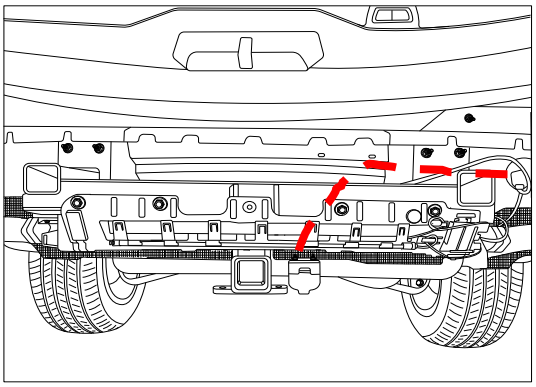
32. Remove the 3 x nuts that secure the LHS bumper support bracket to expose vehicle blanking grommet.
33. Using a step drill, drill out the hole to Ø30mm.

    File any rough or sharp edges and spray with rust inhibitor.



34. Feed the tail harness (1800) blue connector through the previous drilled hole.
35. Slide the grommet to desired location and secure with supplied cable tie.
36. Mount the trailer plug to the plug bracket.

    Ensure the grommet is seated properly.



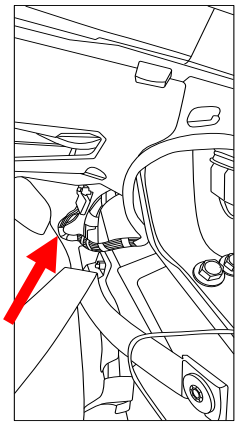
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IMPORTANT

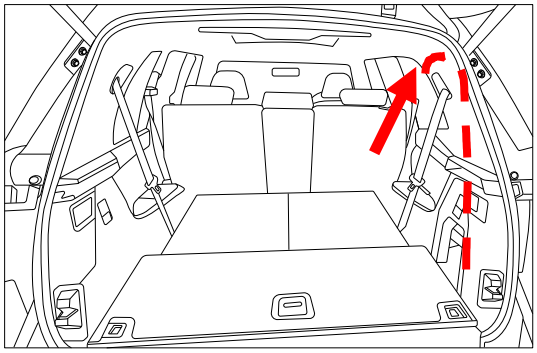
Due to possible vehicle variations, always confirm any noted vehicle colour wires with a multi-meter to ensure the correct function is identified before soldering or scotch locking. For vehicle wires denoted with two colours (example; RED/GREEN) the first colour will always be the main wire colour while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

37. Route the trailer patch ground wire ring terminal towards the factory GND point on the inner side of the chassis.

    Note: Peel back the carpet to reveal the ground point.



38. Route the trailer patch RD/BK & BN/BK wire up the RHS D-pillar.

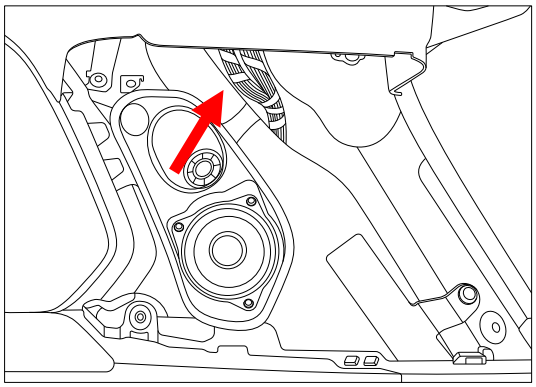


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39. On the RHS Upper D-pillar locate vehicle wires, following table below join the wires.

Function	Trailer Patch	Vehicle
BRAKE	RED/BLACK	THIN BLACK
TAIL	BROWN/BLACK	GREY/BROWN

Note: The wires are in the bundle of wire which has various RED traced wires.

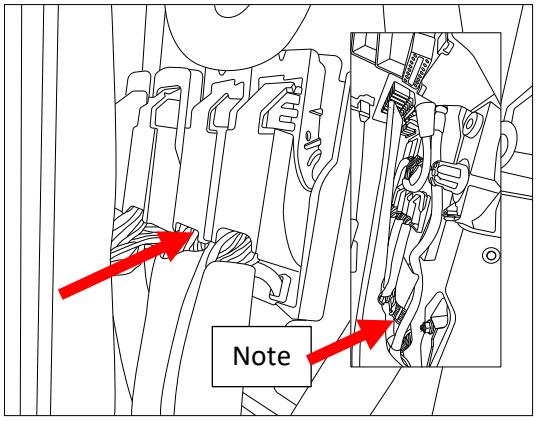


40. Route the trailer patch GREEN/BLACK & YELLOW/BLACK wires towards the front RHS kick trim.

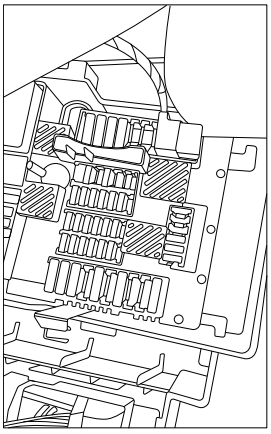
41. On the RHS BCM locate the harness that comes out of the Black shell Green lever lock connector.
42. Carefully cut the tape off the harness to expose Vehicle BLUE & BLUE/YELLOW indicator wires, following the table below join the wires.

Function	Trailer Patch	Vehicle
L. INDICATOR	YELLOW/BLACK	BLUE
R. INDICATOR	GREEN/BLACK	BLUE/YELLOW

Note: Pull the harness over plastic trim to get better access to harness.

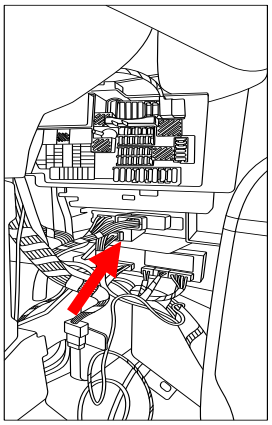


43. Route the Trailer patch RED wire towards the fuse box; cut the wire to length, crimp the Large Add-a fuse adaptor wire to the trailer patch RED wire. Fit supplied 20A fuse into the second slot and insert the Add-fuse to one of the empty fuse slots in the orientation shown.

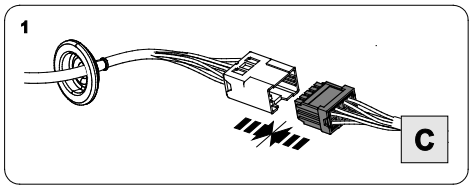


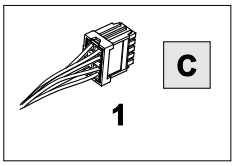
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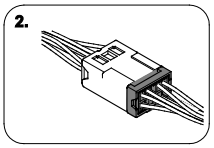
44. Connect the trailer ECU to 12-way F. connector. Place ECU in the empty cavity bracket.
45. If this cavity is taken up, use supplied adhesive tape secure ECU in a desired location ensuring the connector is facing downwards.



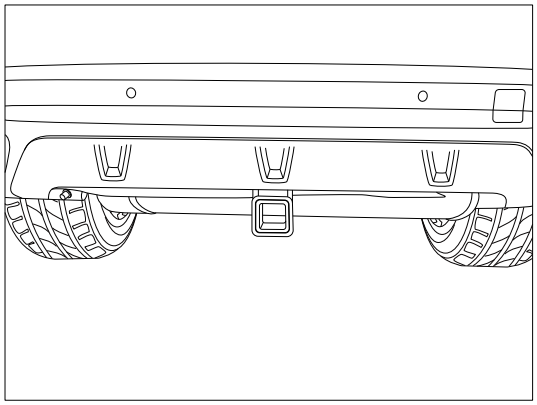
46. Locate the 8-way tail harness connector and connect it to the 8-way female connector on the trailer patch.







47. Secure harness using cable tie.
48. Refit all removed components to the vehicle following steps 1 - 12, 25 - 33 in reverse, ensure there are no rattle or squeaks.
49. Test the trailer patch function using a light board or multi-meter.
50. Place fitting instructions in the glove box.



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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.

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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.

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)

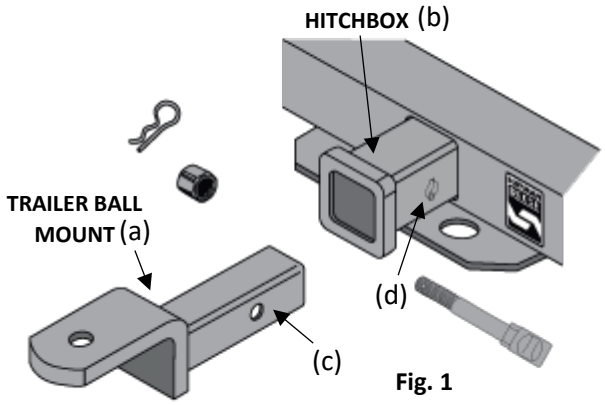


Fig. 1

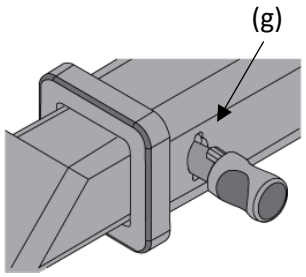


Fig. 2

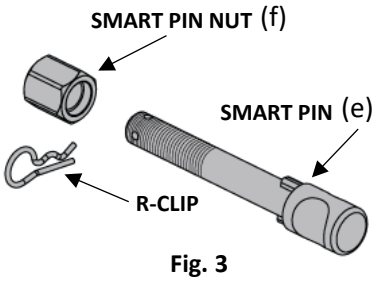
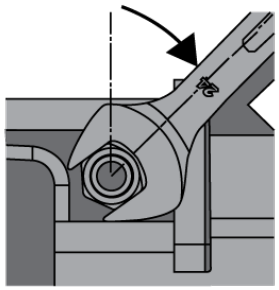
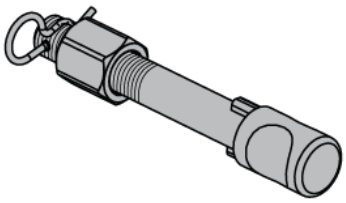


Fig. 3


Fig. 4


Fig. 5

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TOWBAR
INSTALLATION INSTRUCTIONS

PART NUMBER 03500RW

BMW X7 G07 CL4



PRODUCT DETAILS:

Part Number:	03500RW	**Maximum Towing Braked:**	3500	kg
ECU Number:	04826	**Maximum Towing Unbraked:**	750	kg
Tail Harness Length Required:	1800 mm	**Maximum Static Ball Load:**	350	kg
TBM/Lug Part Number:	21375			
Wiring Part Number:	102178-WL			

FITTING DETAILS:

Towbar Installation Time:	120 Mins.	**Hayman Reese SmartCODE Solution Required:**	NO
Wiring Installation Time:	60 Mins.	**RPA Disable/Other:**	NO
Total Installation Time:	180 Mins.		
Bumper Cut Required:	Yes		

Note:

- Electric Brake = Brake Prep Connector.
- Ensure when towing coasting mode / ECO mode must be disabled.
- RPA is via switch on dash.
- Vehicle trailer fuse location F240/F267/F289.

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TOWBAR
INSTALLATION INSTRUCTIONS

PART NUMBER 03500RW

BMW X7 G07 CL4

ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT.

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).

CORRECT

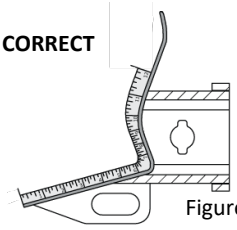


Figure 1

INCORRECT

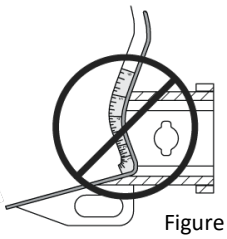


Figure 2

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.

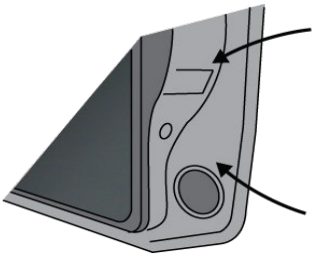
Bolts/Fasteners

- 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.

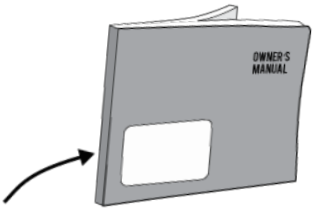
Product Labels

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 V**ehicle 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.

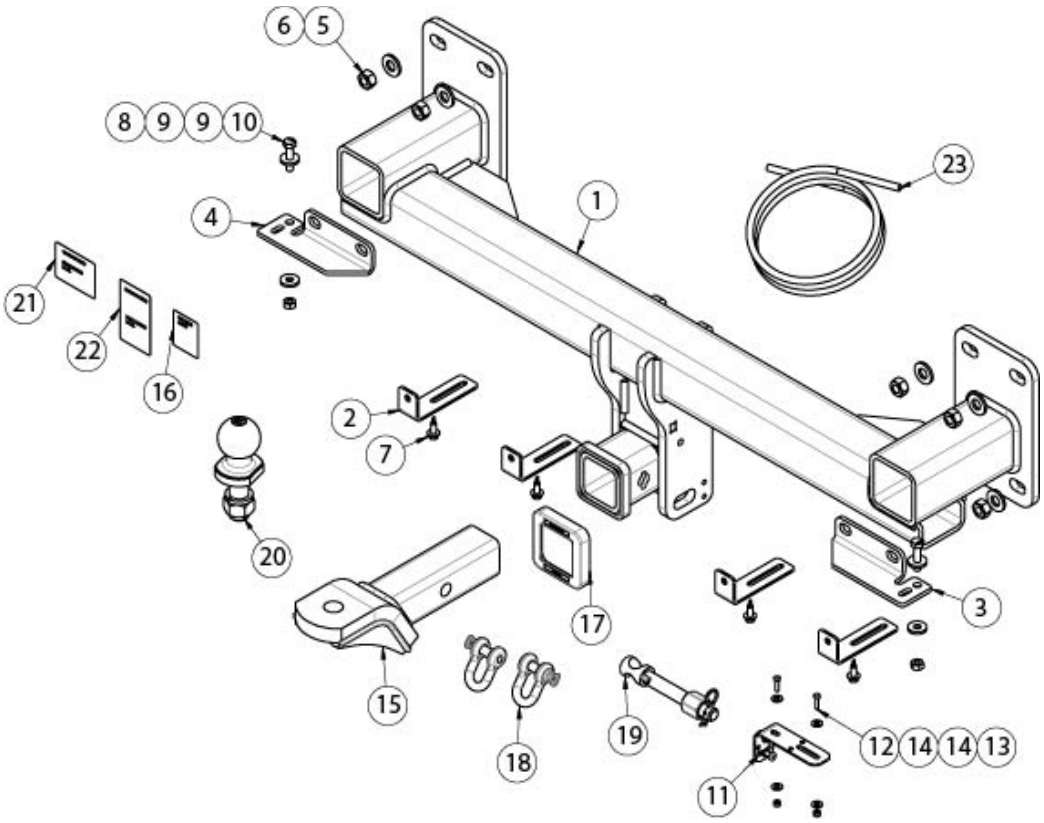
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TOWBAR
INSTALLATION INSTRUCTIONS

PART NUMBER 03500RW

BMW X7 G07 CL4

TOWBAR ASSEMBLY DIAGRAM

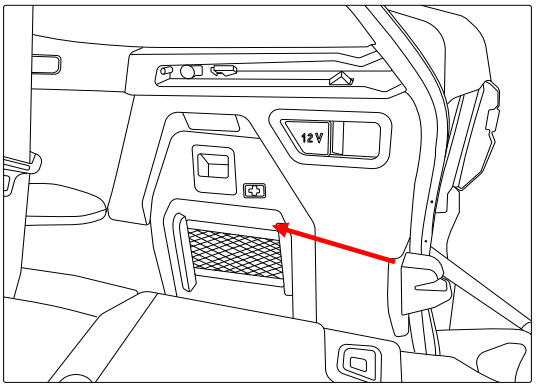


ITEM	DESCRIPTION	QTY
1	BMW X5 WELDED ASSEMBLY	1
2	KICK PANEL BRACKET	4
3	EXHAUST BRACKET RHS	1
4	EXHAUST BRACKET LHS	1
5	NUT HEX HD M12x1.5P	8
6	WASHER PLAIN 1/2"	8
7	TEK SCREW 14-20 HEX HD 22mm	4
8	NUT HEX HD M8x1.25P	2
9	WASHER PLAIN M8x22x3	4
10	BOLT HX HD M8x35x1.25P	2
11	UNIVERSAL PLUG BRACKET KIT	1
12	SCREW PAN HD M4x16x0.7P	2

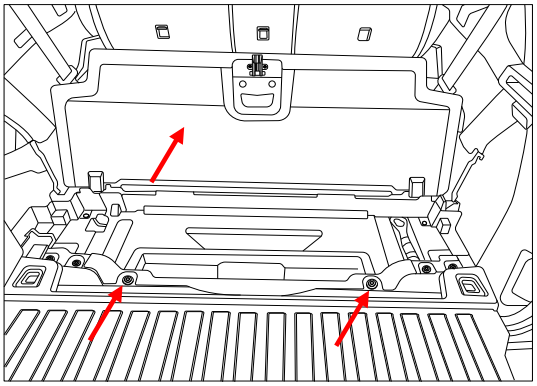
ITEM	DESCRIPTION	QTY
13	NUT NYLOC HEX HD M4x0.7P	2
14	WASHER PLAIN 3/16x1/2x20G	4
15	TRAILER BALL MOUNT	1
16	HAYMAN REESE LOGO STICKER	1
17	HITCH BOX COLLAR COVER	1
18	“D” SHACKLE 10mm	2
19	SMART PIN GOLD	1
20	TOWBALL 50mm	1
21	COMPLIANCE LABEL	1
22	LOAD RATING LABEL	1
23	WIRE LOOM	1

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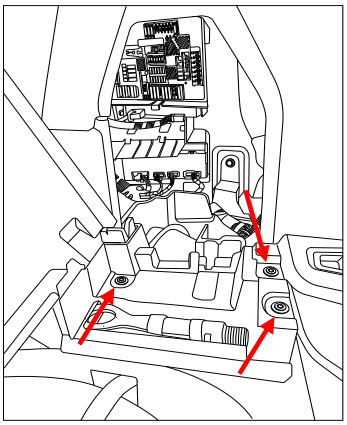
1. Open tail gate and remove the LH and RH side covers in the luggage compartment.



2. Open the luggage compartment floor cover.
3. Release the spare wheel cover by releasing the 2x retainers.



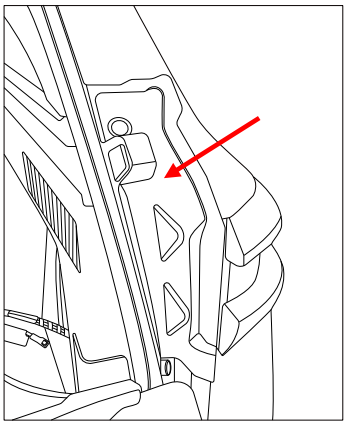
4. Remove the RHS toolbox by remove the 3x clips.



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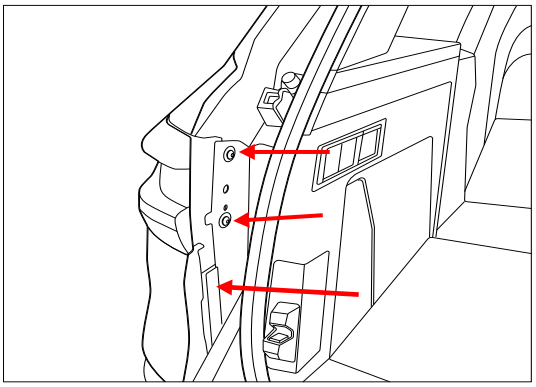
5. Unclip and remove cover from the water channel.

   Repeat for opposite side.



6. Remove 3 x exposed nuts securing the taillight.

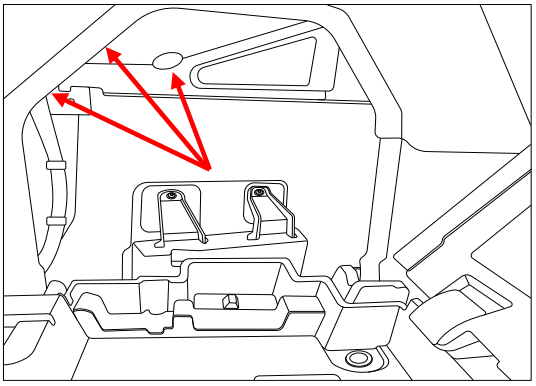
   Repeat for opposite side.



7. In the luggage compartment, remove 3 x nut securing the side of the taillight.

   Remove taillight rearwards and disconnect from wiring harness.

   Repeat for opposite side.

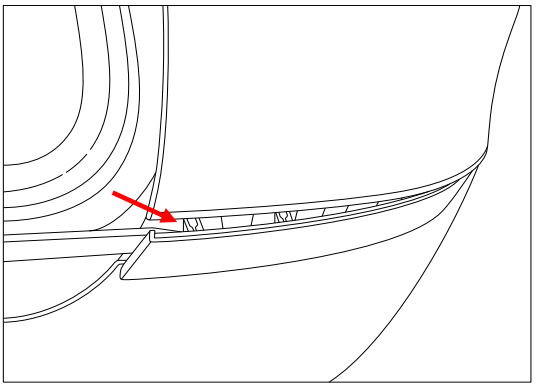


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8. Remove reflector from bumper (push plastic tool from the side to release clip in direction shown).

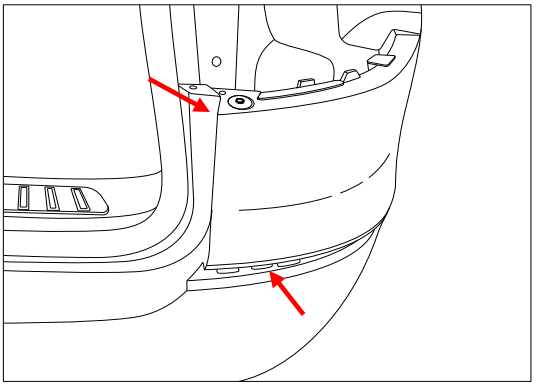
   Ensure to disconnect any plug connections on RHS.

   Repeat for opposite side.

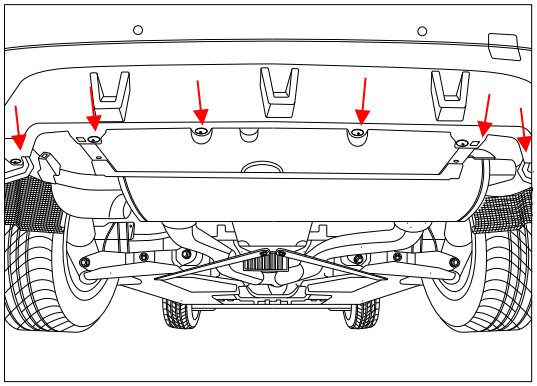


9. Remove 1 x screws located on the bumper and in the reflector cavity.

   Repeat for opposite side.

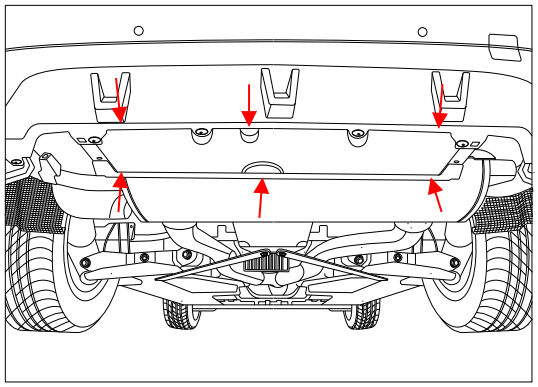


10. Remove 10 x screws from the bottom edge of the bumper.



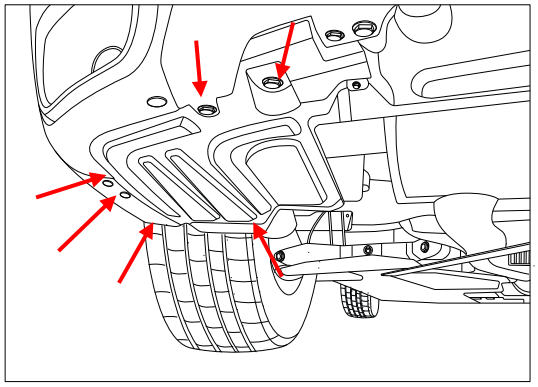
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11. Remove and discard the centre underside protector secured with 6 x screws.



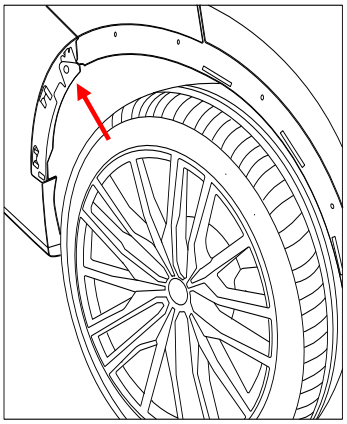
12. Remove the LHS underside protector secured with 6 screws.

    Repeat for opposite side.



13. Remove RHS wheel arch trim to expose 1 x screw. Remove the screw.

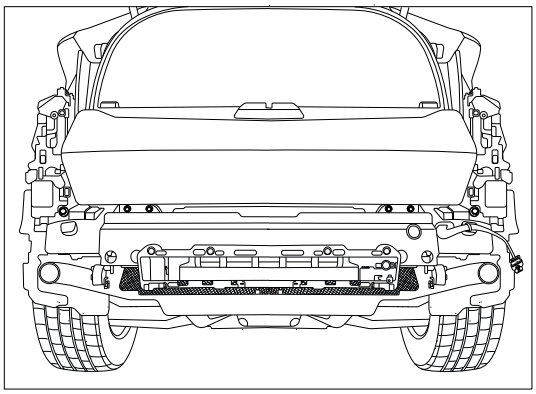
    Repeat for opposite side.



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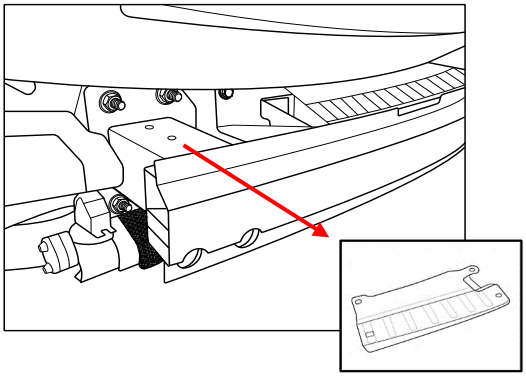
14. Peel the bumper away from the sides and remove.

    Ensure to disconnect any plug connections located on the RH side.



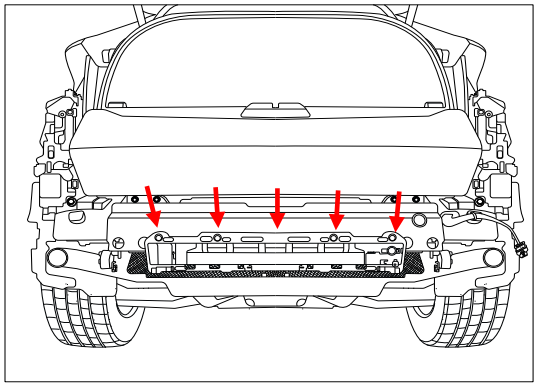
15. Remove LHS & RHS of tailgate cover to gain access to upper fasteners securing impact beam.

    Note: This step is only to assist access to fasteners but not required.



16. Remove the plastic kick panel from the impact beam secured with 5 x scrivets. Retain scrivets for installation.

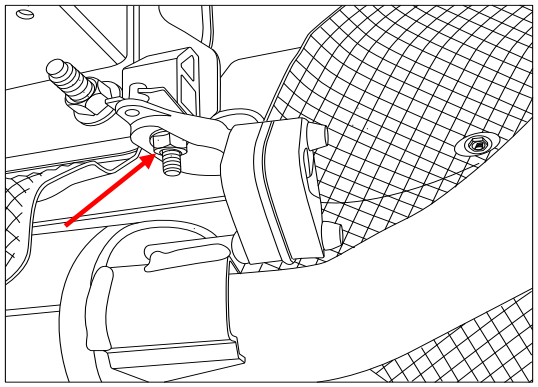
    Ensure to disconnect the centre plug connection and supporting clip located on the RH side.



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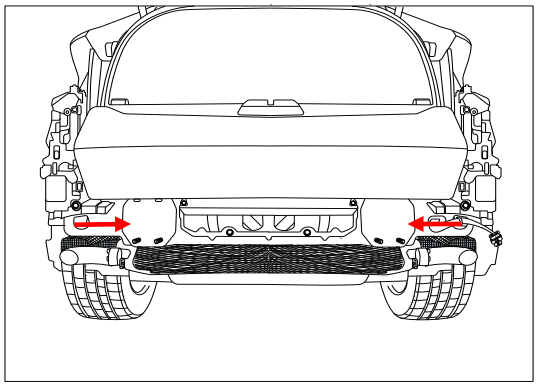
17. Remove the exhaust hanger bracket from the impact beam secured with 1 x nut.

    Repeat for opposite side.

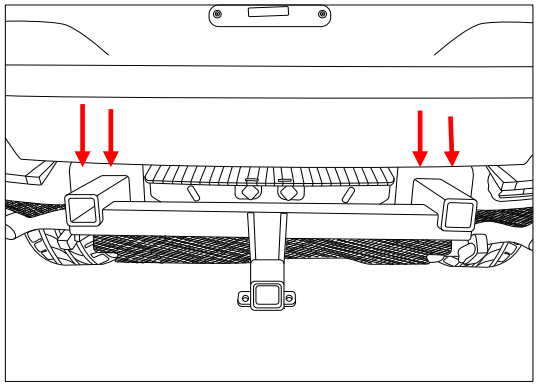


18. Remove and discard impact beam secured with 4 x M12 nuts per side. Discard fasteners.

    Note: Ensure the water ingress seal behind the impact beam remains intact and on the vehicle.



19. Position towbar onto vehicle and secure the top 4 mounting studs (LH and RH side) with 4x M12 nuts and 4x M12 washers.



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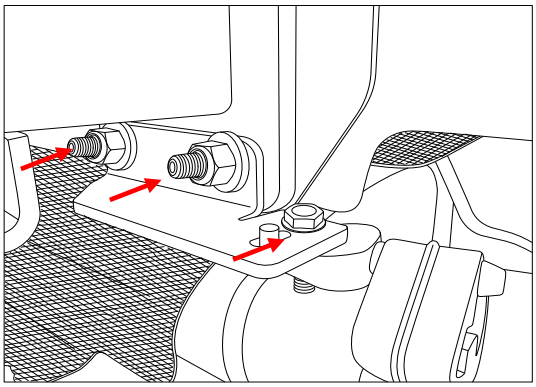
20. Position the exhaust bracket onto the lower 2 mounting studs and loosely secure with 2x M12 nuts and 2x M12 washers.

    Secure exhaust hanger to exhaust bracket with 1 x M8 bolt complete with 2 x washers and 1 x nut.

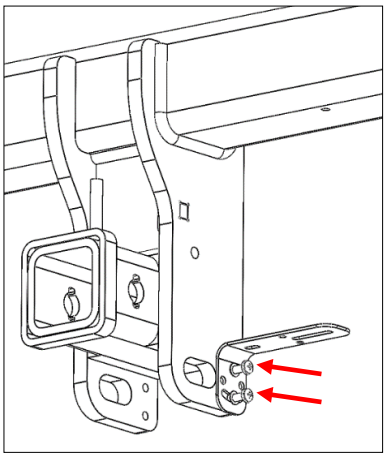
    Repeat to the other side.

    Torque all M8 fasteners to 22Nm.

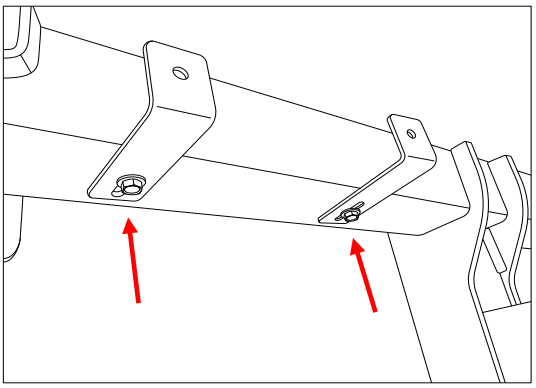
    Torque all M12 fasteners to 90Nm.



21. Fit the plug bracket to the side of the towbar dropper with M5 fasteners provided.



22. Loosely secure the 4 x kick panel brackets with 4 x tek screws (1 per tab).

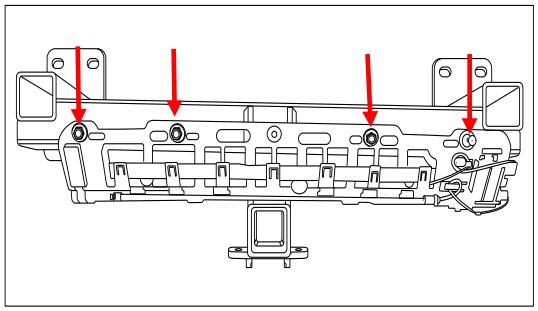


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23. Secure the kick panel onto the 4 kick panel brackets with 4 x scrivets (retained from step 16).

    Adjust position of kick panel brackets where necessary then tighten tek screws.

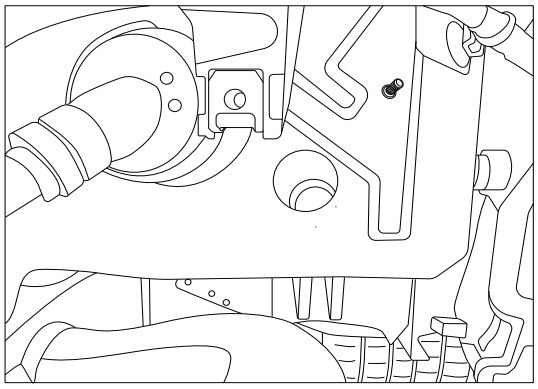
    On the RHS reconnect the centre plug connection and supporting clip of the sensor holder removed in step 16.



Note: From inside the vehicle remove the foam insert and ensure there are no cables present.

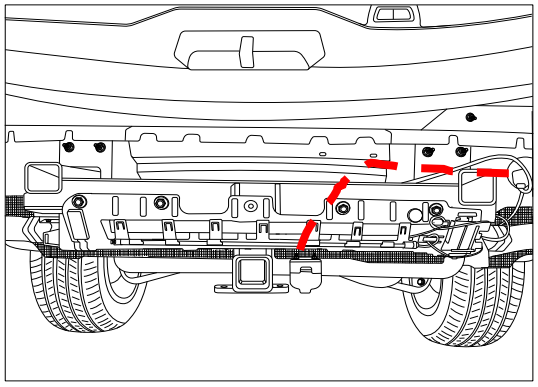
24. On the LHS rear sheet metal drill a Ø30mm hole, as indicated.

    File any rough or sharp edges and spray with rust inhibitor.



25. Feed the tail harness (1800) blue connector through the previous drilled hole.
26. Slide the grommet to desired location and secure with supplied cable tie.
27. Mount the trailer plug to the plug bracket.

    Ensure the grommet is seated properly.

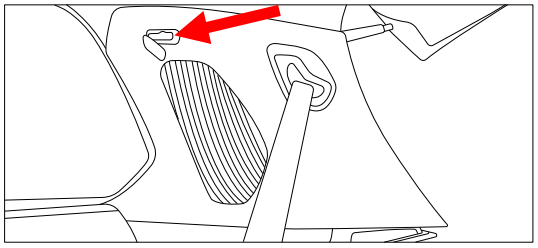


IMPORTANT

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.

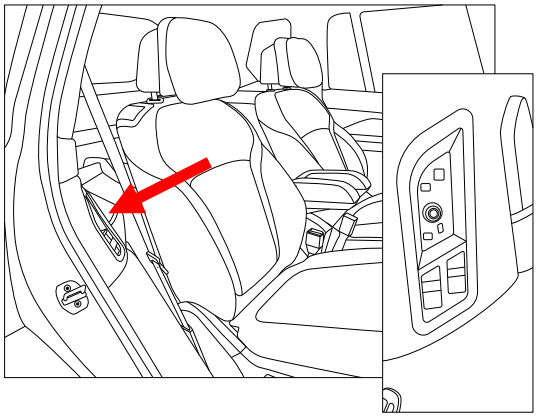
28. Unclip the airbag trim panel to expose 1x torx screw on the RHS D-panel upper trim.
29. Remove the screw & dislodge the D-panel upper trim; lay it on the rear section of the boot.

    Repeat for opposite side.

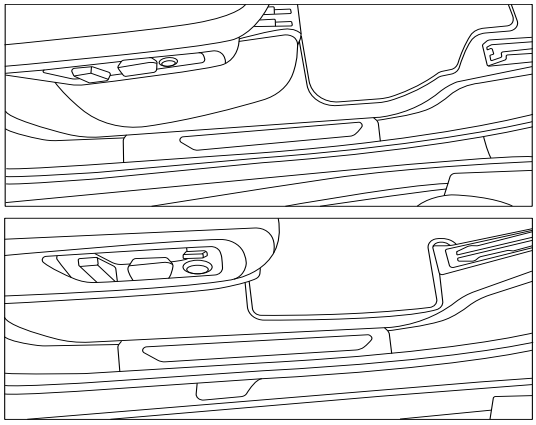


30. On the RHS rear passenger trim remove locate the rear seat switch panel and remove the plastic cover to expose 1x torx screw.
31. Remove the screw.
32. Move the switch panel.

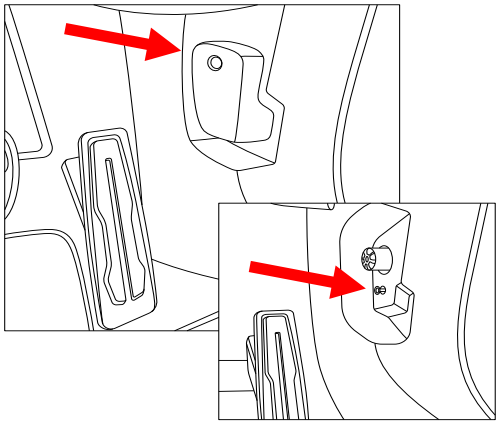
    Note: This step is to assist in feeding wires through the rear panel towards the front of the vehicle.



33. Remove RHS rear passenger sill trim.
34. Remove drivers side sill trim.

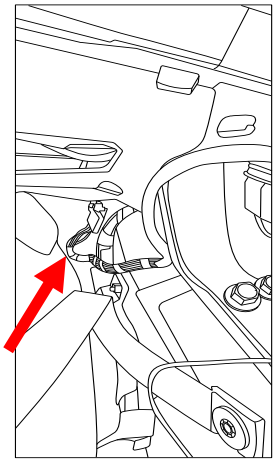


35. Unscrew the bonnet release handle to expose a torx screw that secures driver side kick trim.
36. Remove the screw and kick trim.

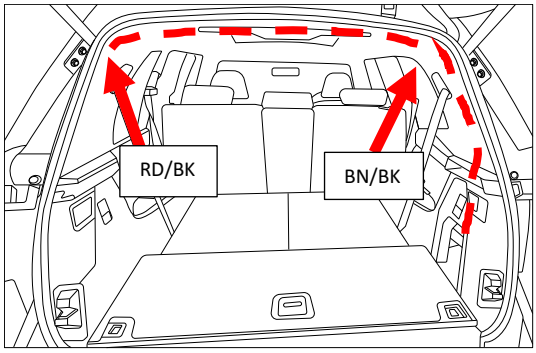


37. Route the trailer patch ground wire ring terminal towards the factory GND point on the inner side of the chassis.

    Note: Peel back the carpet to reveal the ground point.



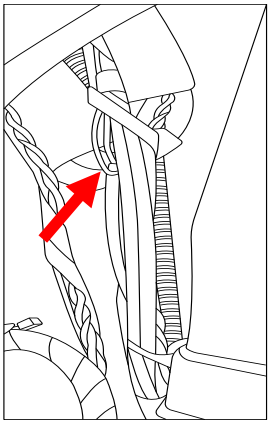
38. Route the trailer patch RD/BK & BN/BK wire up the RHS D-pillar.
39. The RD/BK wire routes along the roof lining towards the LHS D-pillar wiring loom.
40. The BN/BK gets routed to the RHS D-pillar vehicle wiring loom.



41. On the LHS locate vehicle **Thin** Black brake wire, following table below join the wires.

Function	Trailer Patch	Vehicle
Brake	RED/BLACK	BLACK

Note: The wire is in the large bundle of cables.

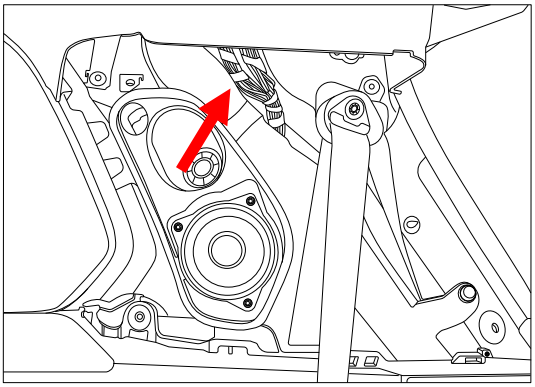


42. On the RHS locate the vehicle Grey/Brown Taillight wire, following the table below join the wires.

Function	Trailer Patch	Vehicle
TAIL	BROWN/BLACK	GREY/BROWN

Note: The wire is in the bundle of wire which has various RED traced wires.

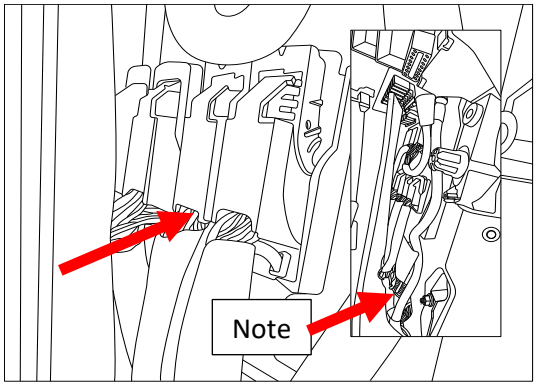
43. Route the trailer patch GREEN/BLACK & YELLOW/BLACK wires towards the front RHS kick trim.



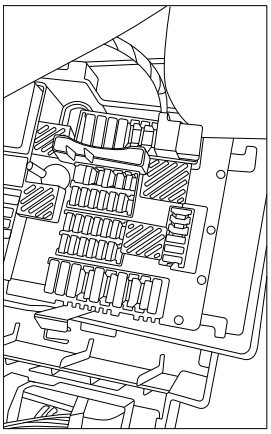
44. On the RHS BCM locate the harness that comes out of the Black shell Green lever lock connector.
45. Carefully cut the tape off the harness to expose Vehicle BLUE & BLUE/YELLOW indicator wires, following the table below join the wires.

Function	Trailer Patch	Vehicle
L. INDICATOR	YELLOW/BLACK	BLUE
R. INDICATOR	GREEN/BLACK	BLUE/YELLOW

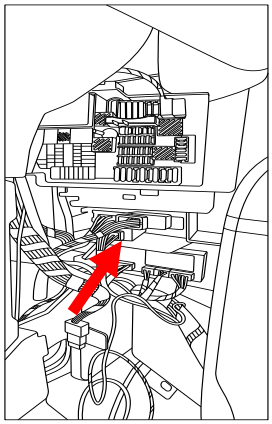
Note: Pull the harness over plastic trim to get better access to harness.



46. Route the Trailer patch RED wire towards the fuse box; cut the wire to length, crimp the Large Add-a fuse adaptor wire to the trailer patch RED wire.
47. Fit supplied 20A fuse into the second slot and insert the Add-fuse to one of the empty fuse slots in the orientation shown.

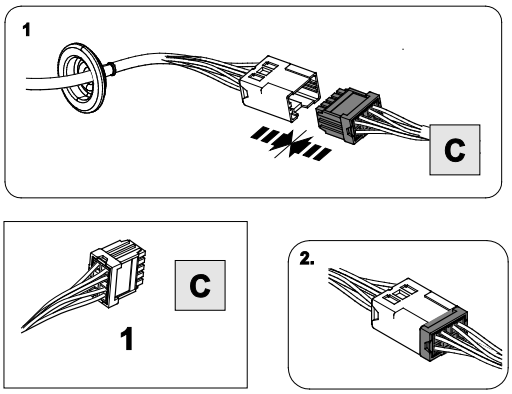


48. Connect the trailer ECU to 12-way F. connector. Place ECU in the empty cavity bracket.
49. If this cavity is taken up, use supplied adhesive tape secure ECU in a desired location ensuring the connector is facing downwards.

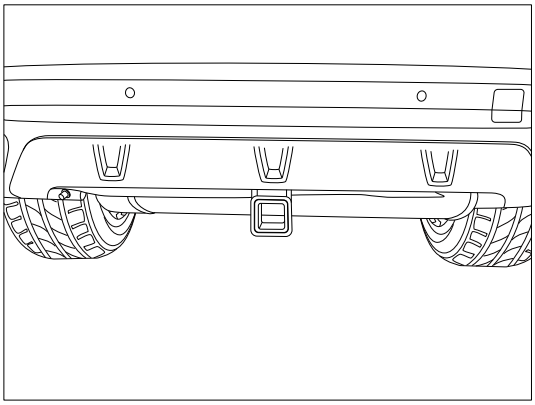


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50. Locate the 8-way tail harness connector and connect it to the 8-way female connector on the trailer patch.



51. Secure harness using cablle tie.
52. Refit all removed components to the vehicle following steps 1 - 14, 28 - 36 in reverse, ensure there are no rattle or squeaks.
53. Test the trailer patch function using a light board or multi-meter.
54. Place fitting instructions in the glove box.



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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.

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)

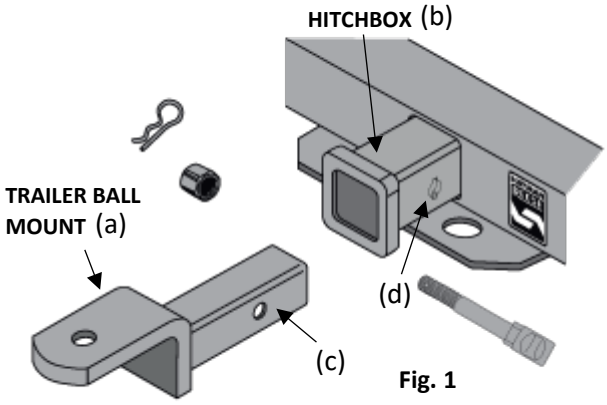


Fig. 1

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)

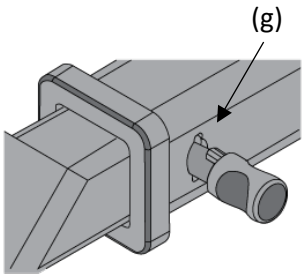


Fig. 2

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.

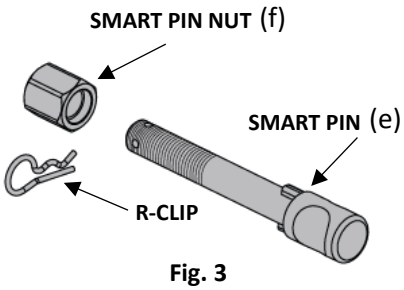
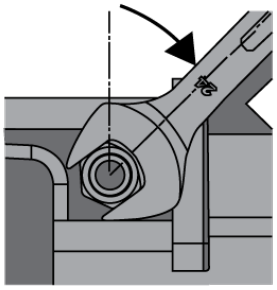


Fig. 3

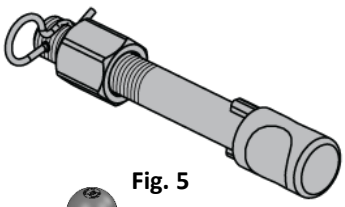
STEP 4

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


Fig. 4

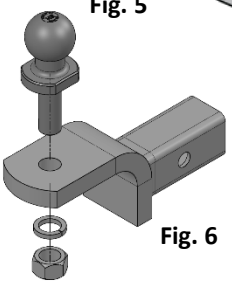
STEP 5

Install Smart Pin R-Clip through the hole that provides best clearance or easiest access. (Fig. 5)


Fig. 5

STEP 6

Install towball onto TBM and tighten to **<u>350 Nm</u>** using a calibrated torque wrench (Fig. 6).


Fig. 6

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