

**HAYMAN REESE**  
**PART No: 03121RW**  
**BMW 2 SERIES TOURER (F45) – 09/2014 ONWARD**

## INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT ALL INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT  
PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION IS COMPLETED



Installation Time: Approx 60 Mins

**Towbar Installation Instructions**

**Towbar capacity**

**BMW 2 SERIES TOURER (F45) – 09/2014 ONWARD**

**Part Number 03121RW**

**Max Towing Braked 1500 kg**

**Max Towing Unbraked 750 kg**

**Max Static Ball Load 75 kg**

Hayman Reese (Cequent)  
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### Warning:

1. Do not, drill, cut, weld or otherwise modify the towbar.
2. If you are using electric welding on a motor vehicle, **always** check that the vehicle is not equipped with electronic engine or instrument management equipment. Failure to do so could **destroy** any onboard computers. If in doubt, check with the vehicle's manufacturer.
3. If TBM is used in inverted position tow ball may make contact with rear tailgate when lowered, which could cause damage.

### General:

1. Ensure all hardware items have been included refer to assembly diagram.
2. It is recommended that the instructions are read through and completely understood before making any attempt to fit this product.
3. Be wary of any changes to vehicle designs or other accessories that may conflict with the installation of this product.
4. Before drilling ensure that the area is clear of fuel, electrical & other components.
5. All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.
6. The high tensile fasteners supplied with this product were used to achieve the specified rating. If replacement is required ensure that fasteners of the same rating & quality are used. Contact an authorised **Hayman Reese** dealer if further information is required.
7. Ensure that all hardware is fastened to torque list below check fasteners on regular basis.
8. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door. **(See diagram below).**
9. Hayman Reese recommends that you check your tow ball to ensure that it complies with the Australian standards **AS 4177.2**.
10. **PLEASE NOTE:** It is advised to remove your LUG or TBM when not actually towing so as to produce a clear view of the vehicles registration plate if obscured, and to also provide maximum available departure angle.
11. Pull Pin must be fit in down position.

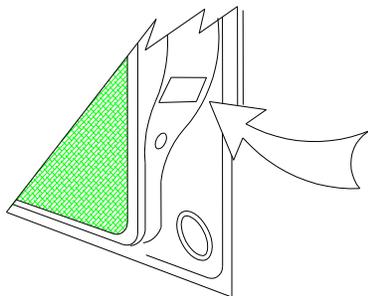
### Tow bar Maintenance and Care.

Hayman Reese recommends that bolt torque's, as listed below, are routinely and regularly inspected and checked for correct tension. Replace any worn or defective parts.

We recommended to remove Tow Ball Mounts (TBM's, tongues or lugs) when not being used for any considerable length of time.

So as to avoid injury, when not towing it is suggested that the tongue, Pull Pin and R-clip are removed then stored in a safe, clean and dry place, away from excessive moisture.

Hitch Pull Pins and spring "R" clips are regularly checked for proper installation. Replace any worn or defective parts.



Place load rating sticker  
inside driver's door here

### RECOMMENDED ASSEMBLY TORQUE LISTING

#### Diameter Grade 8.8 Bolt

M6	9.5 Nm
M8	21.7 Nm
M10	43.4 Nm
M12	77.3 Nm
M14	146 Nm
M16	189.8 Nm

### FOR TOWING PURPOSES ONLY

For towing capacity details please refer to vehicle owner's manual or to the manufacturer. Overloading can void your warranties.

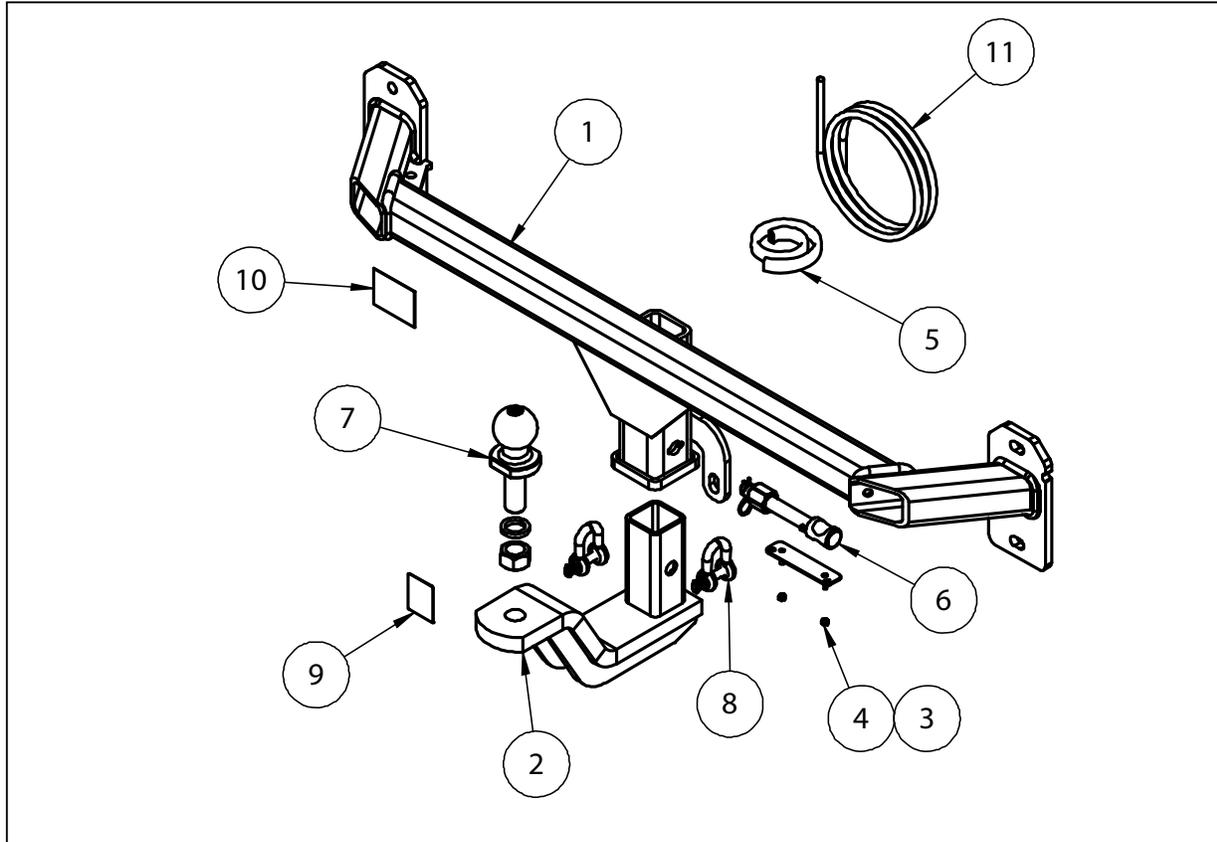
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QTY.	DESCRIPTION	ITEM NO.
1	WELDED ASSEMBLY	1
1	TBM ASSY	2
1	PLUG BRACKET	3
2	NUT NYLOC M4-0.7 Z/P	4
1	BUMPER TRIM PINCH WELD 700mm	5
1	ANTI-RATTLE PULL PIN ASSY GOLD	6
1	HR TOWBALL	7
2	10mm "D" SHACKLE	8
1	H.R STICKER	9
1	ACRYLIC CP	10
1	VEHICLE-TRAILER WIRING HARNESS	11

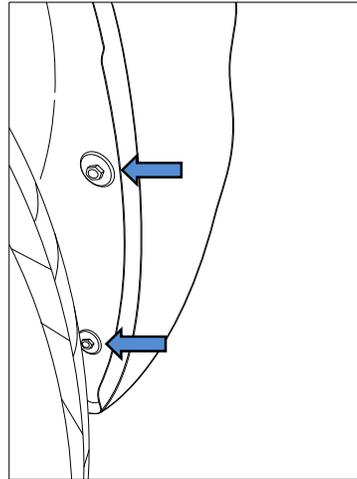
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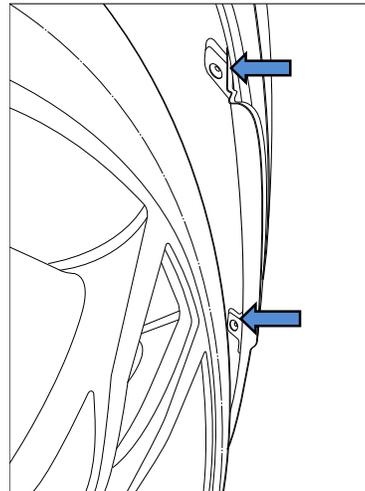
1. Remove 2x Screws from rear face of rear wheel arch.

Repeat for opposite side of vehicle.



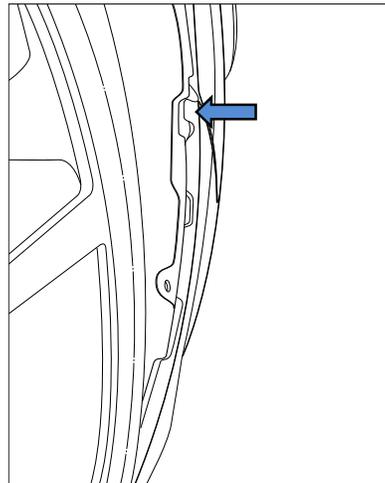
2. Remove plastic Flange Nut and push rivet from rear wheel arch, securing mudguard. Remove mudguard.

Repeat for opposite side of vehicle.



3. Remove Screw securing bumper trim to vehicle body work.

Repeat for opposite side of vehicle.

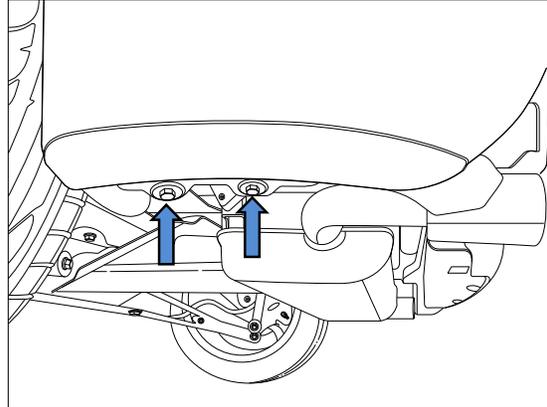


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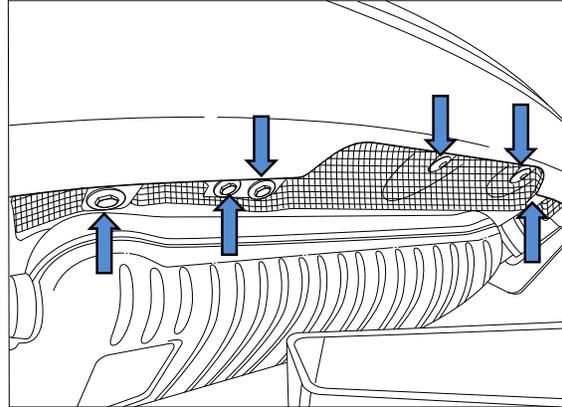
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4. Remove 2x Screws from underside of bumper, behind rear wheel arch.

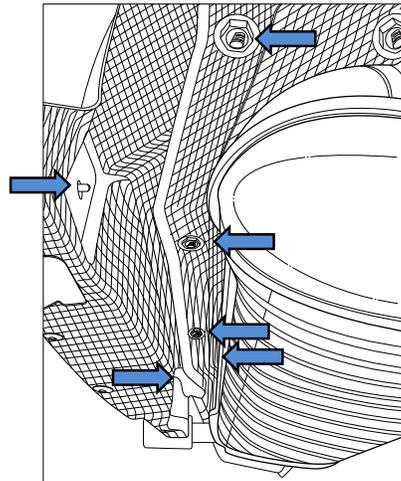
Repeat for opposite side of the vehicle.



5. Remove 6x (8x where lower Heat Shield is install) Screws from underside of bumper, at rear end of vehicle.



6. Where installed, remove 4x Heat shield fasteners and 2x Screws; remove lower section of heat shield, ensuring heat shield is lifted over locators.

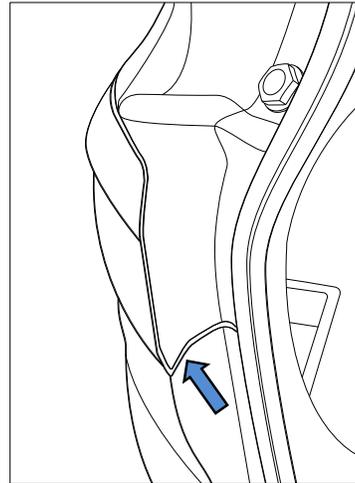


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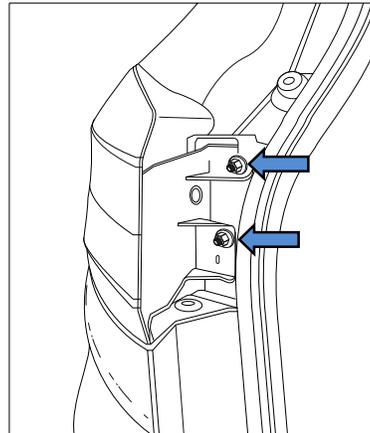
7. Remove trim adjacent to tail light assembly within boot cavity, starting at the notch at the lower end of the piece.

Repeat for opposite side of vehicle.



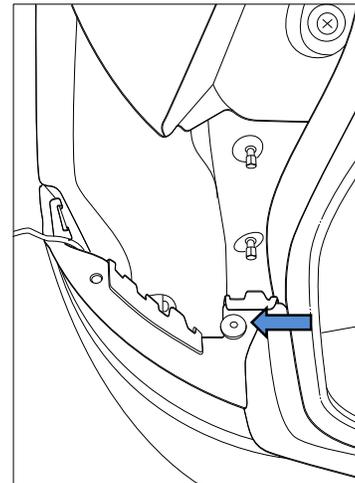
8. Remove 2x Flanged Nuts securing tail light assembly. Remove and disconnect tail light assembly.

Repeat for opposite side of vehicle.



9. Remove Screw, previously concealed by tail light assembly.

Repeat for opposite side of vehicle.



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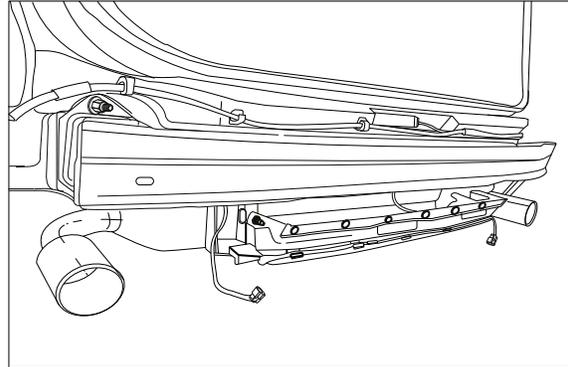
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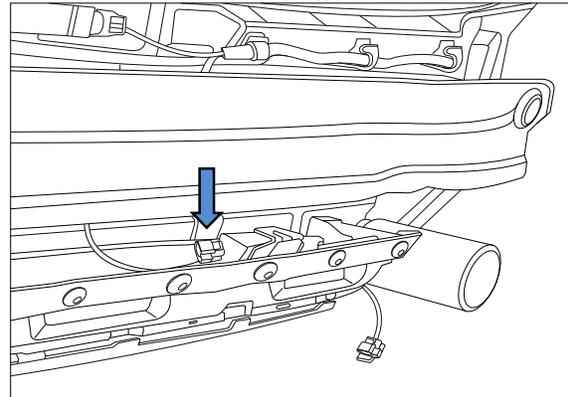
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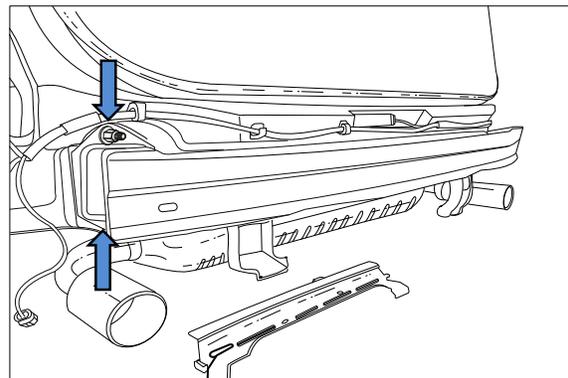
10. Unclip and remove parking sensors from bumper fascia.
11. Carefully unclip and remove rear bumper fascia from vehicle.



12. Where installed, disconnect remote boot and hands-free power tailgate junction box.
13. Unclip and remove remote boot and hands-free power tailgate sensor support.



14. Remove and retain 4x flanged Nuts securing rear impact beam.
15. Remove and discard rear impact beam.



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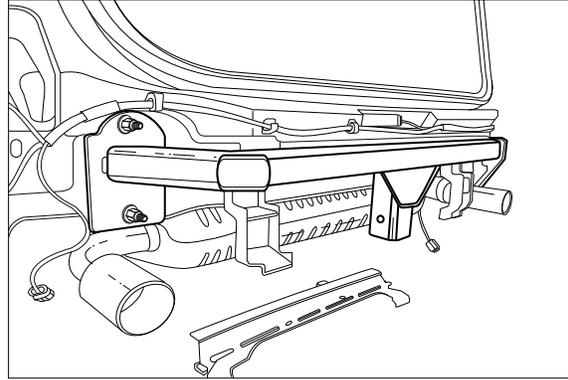
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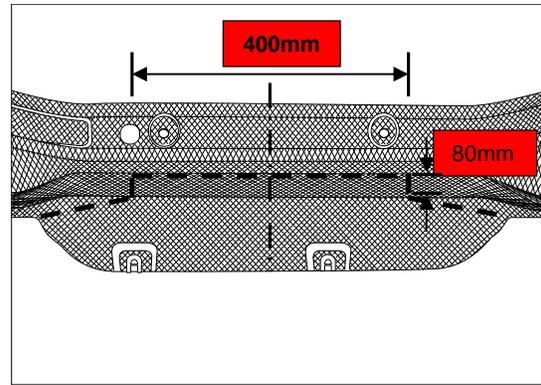
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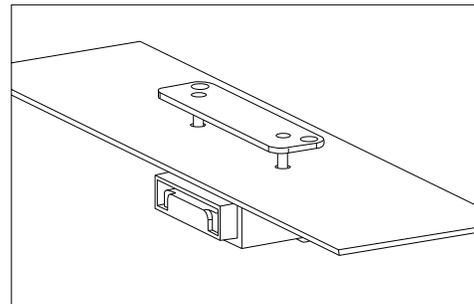
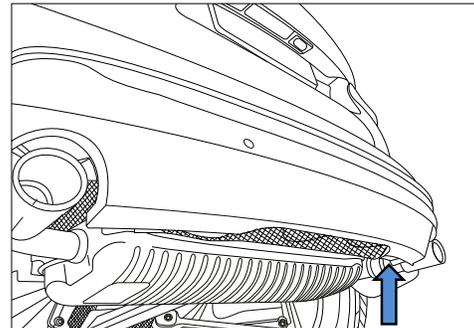
16. Offer Towbar to rear panel of vehicle. Secure Towbar with 4x flanged Nuts removed in step 14. Tighten flanged nuts to M12 torque specified on page 2 of this document.



17. Where installed, identify centreline of lower heat shield removed in step 6. Create a cutout as per diagram. Cover cut edge using pinch weld provided.



18. Mark out and drill 2x  $\varnothing$ 5mm holes 69mm apart on bumper skin to support plug bracket. Feed bracket threads through drilled holes prior to reinstalling bumper.
19. Reinstall bumper bar by following steps 1 to 13 in reverse order. Use foam tape between mudguard and wheel arch as required.



**HAYMAN REESE**  
**PART No: 100902-WL**  
**BMW 320D, BMW 2 Series**

**INSTALLATION INSTRUCTIONS**

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**Wiring Loom Installation Instructions**

**BMW 320D (pages 2 to 5)**  
**BMW 2 Series (pages 6 to 9)**

**Part No: 100902-WL**  
**ECU Required: 04838 (BMW 320D )**  
**ECU Required: 04828 (BMW 2 Series)**

**Tail Harness Length Required: 1800mm (BMW 320D )**  
**Tail Harness Length Required: 1200mm (BMW 2 Series)**

**Wiring Loom Installation Time: Approx. 20 - 30 minutes**

**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.

Issue Date 10-02-15

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Part No: 100902-WL

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BMW 320D, BMW 2 Series

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1. On the RHS of the luggage compartment, remove the access panel (1) by turning the clip lock (2) 90°.



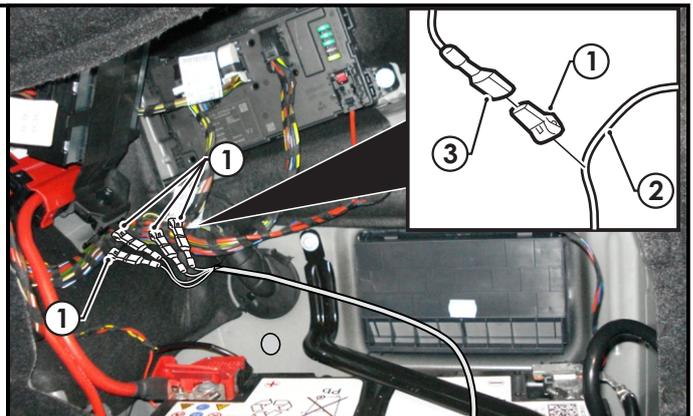
2. In the RHS rear quarter panel, drill a Ø30mm hole (1).
3. File any rough or sharp edges and spray with rust inhibitor.



**Always confirm wire colours with a multi-meter.**

4. Following the table below, connect the ezy-taps (1) to the corresponding vehicle wires (2), then connect the trailer patch terminal (3) to the ezy-taps (1).

Function	Trailer Patch	Vehicle Connector
R.IND	GREEN / BLACK	BLACK / GREY
L.IND	YELLOW / BLACK	BLACK / WHITE
TAIL	BROWN / BLACK	GREY / YELLOW
BRAKES	RED / BLACK	BLACK / BLUE



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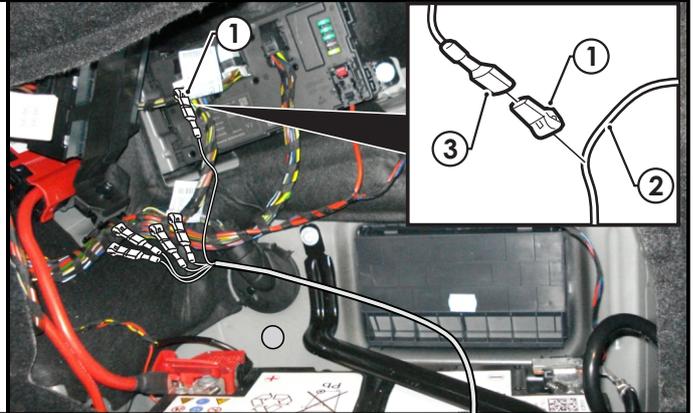
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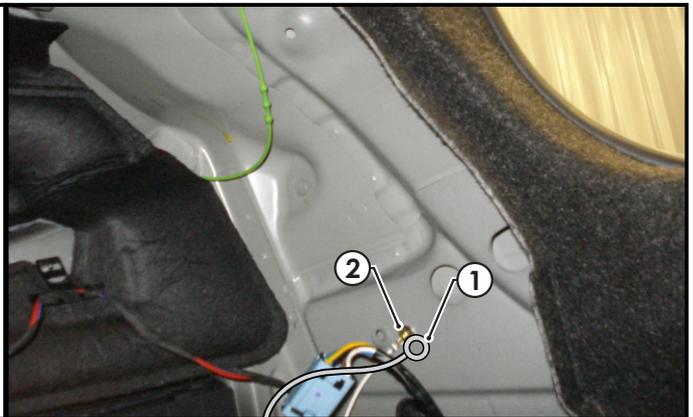
**Always confirm wire colours with a multi-meter.**

5. Following the table below, connect the ezy-tap (1) to the vehicle's BLACK/BLUE wire (2), then connect the trailer patch terminal (3) to the ezy-tap (1).

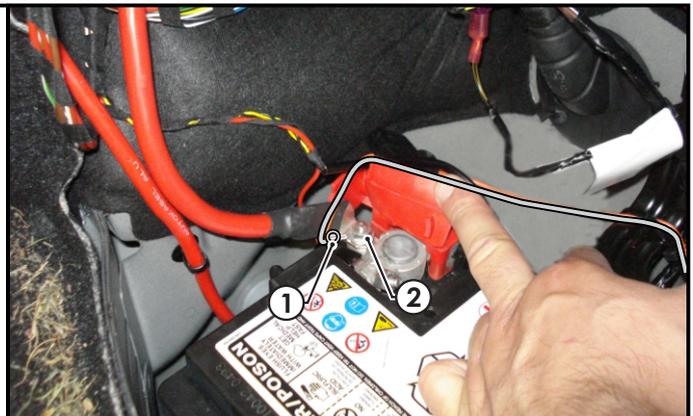
Function	Trailer Patch	Vehicle Connector
REVERSE	BLACK / WHITE	BLACK / BLUE



6. Connect the trailer patch ground ring terminal (1) to the vehicle grounding point (2).



7. Connect the ORANGE 12v wire (1) to the positive side of the vehicle battery (2).



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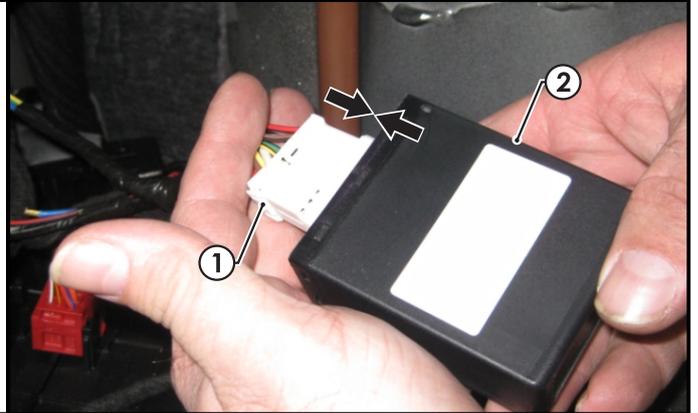


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**BMW 320D, BMW 2 Series**

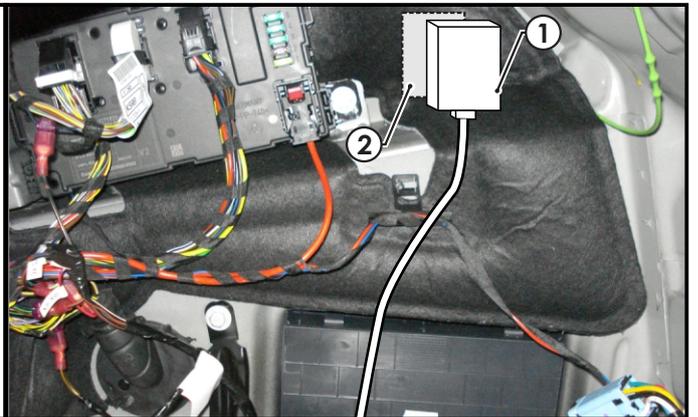
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8. Connect the trailer patch 12-way connector (1) to the ECU (04838) (1).



9. Apply double sided tape to the ECU (P/No: 04838) (1) and secure it to the vehicle sheet metal in the area shown (2). **Note: Ensure to mount the ECU with the connector facing downwards.**



10. Mount the trailer socket (1) to the tow bar mounting bracket using M4 fasteners (not supplied).
11. Route the tail harness (tail length: 1800mm) (2) across the tow bar towards the RHS of the vehicle and up through the previously drilled hole.
12. Ensure the tail harness grommet is seated correctly and secure in place using a cable tie (not supplied).



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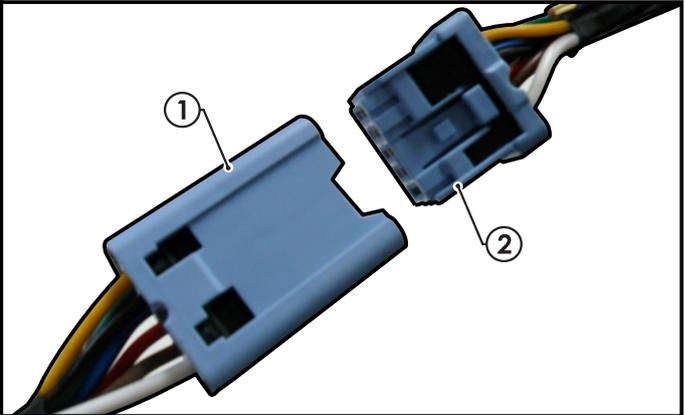
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**PART No: 100902-WL**  
**BMW 320D, BMW 2 Series**

**INSTALLATION INSTRUCTIONS**

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13. Connect the tail harness 8-way connector (1) to the trailer wiring harness mating 8-way connector (2).



14. Test the trailer wiring harness function using a light board or multimeter.
15. Secure all harnesses using cable ties (not supplied).
16. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
17. Place the fitting instructions in the glove box after fitment.

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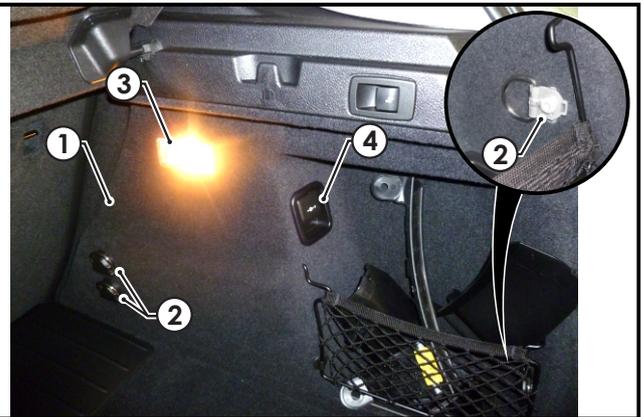
1. In the luggage compartment area, remove the rear parcel shelf (1) and the floor cover (2).
2. Fold down the rear seats (3).



3. Remove the luggage compartment rear trim (1) by removing four clips (2).



4. On the RHS luggage compartment trim (1) remove the three torx screws (2) from underneath the tie-down caps (2). Dislodge the trim (1).
5. From behind the trim (1) disconnect the 12V interior light connector (3) and the power socket connector (4). Remove the trim (1).



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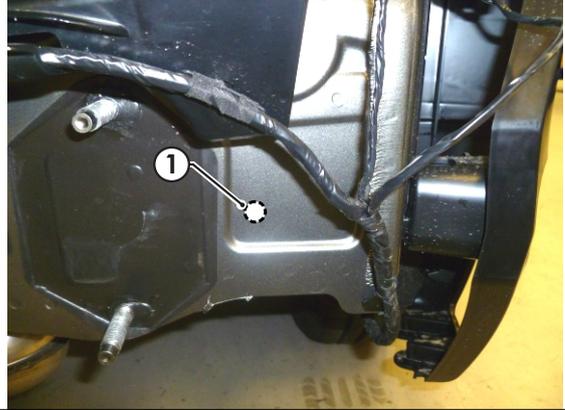


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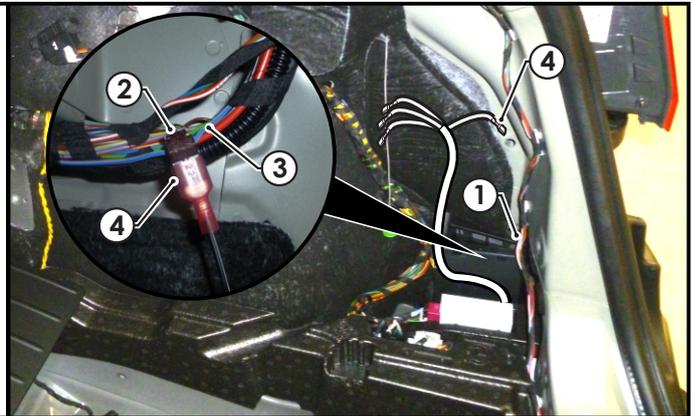
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6. At the RHS rear quarter exterior of the vehicle, drill a Ø30mm hole into the vehicle sheet metal (1). After drilling, file down any rough or sharp edges and apply rust inhibitor.



7. Locate the vehicle harness (1) running up the rear of the vehicle.
8. Following the table below, connect the ezy-tap (2) to the corresponding vehicle wire (3) and then connect the trailer patch (P/No: 100902-WL) terminal (4) to the ezy-tap (2).

Function	Trailer Patch	Vehicle Connector
REVERSE	BLACK / WHITE	GREY / BLUE



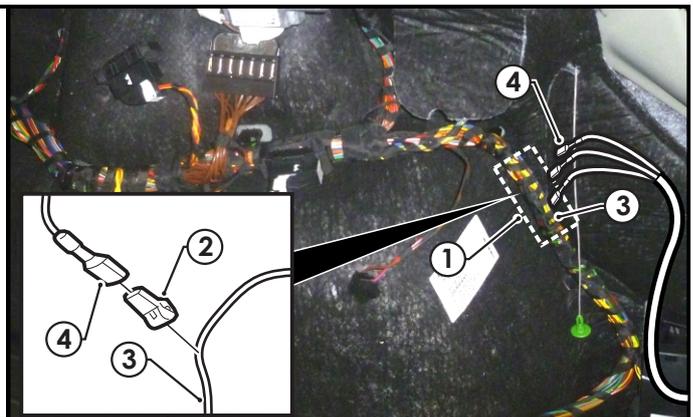
9. Gain access to the vehicle harness wires by un-taping the vehicle harness in the area roughly highlighted (1).

**Always confirm wire colours with a multi-meter.**

10. Connect the ezy-taps (2) to the corresponding vehicle wires (3), then connect the trailer patch terminals (4) to the ezy-taps (2).

**Note: the trailer patch BROWN/BLACK wire (tail) is not required. Secure into place by taping back onto trailer patch harness.**

Function	Trailer Patch	Vehicle Connector
R.IND	GREEN / BLACK	BLUE / GREEN
L.IND	YELLOW / BLACK	BLACK / WHITE
BRAKES	RED / BLACK	BLACK / YELLOW



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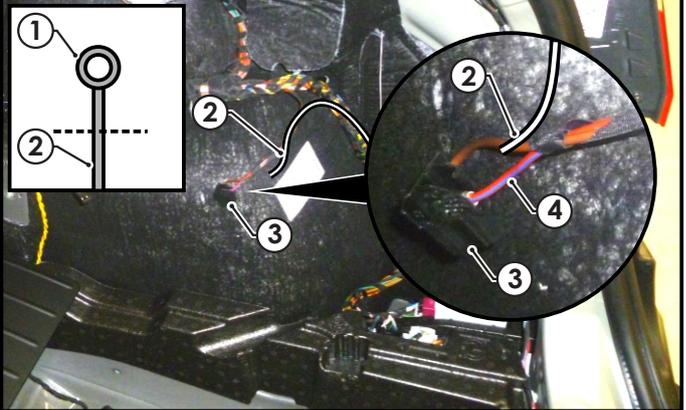
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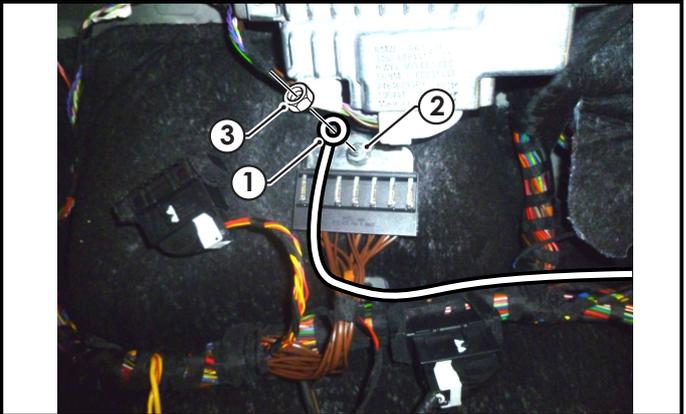
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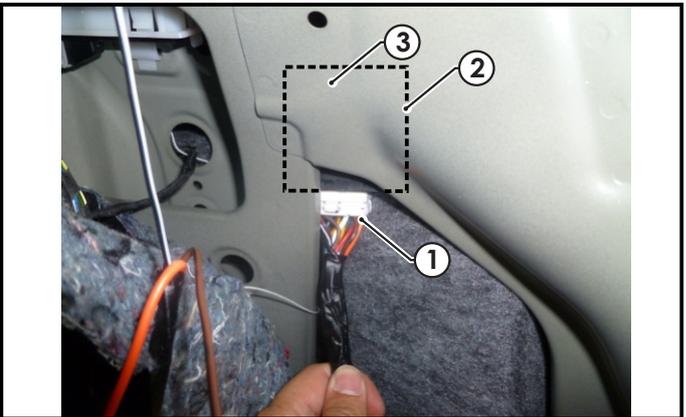
11. Locate and cut off the ring terminal (1) from the trailer patch ORANGE power wire (2).
12. Solder the trailer patch ORANGE power wire (2) onto the vehicle power socket connector's (3) RED / BLUE wire (4).



13. Secure the trailer patch ground ring terminal (1) to the vehicle grounding point (2) using the existing vehicle fastener (3).



14. Connect the trailer patch ECU connector (1) to the ECU (P/No: 04828) (2).
15. At the RHS rear quarter interior, adhere the ECU (2) to the outer side of the inner sheet metal (3).  
**Note: Ensure to mount the ECU with the connector facing downwards.**



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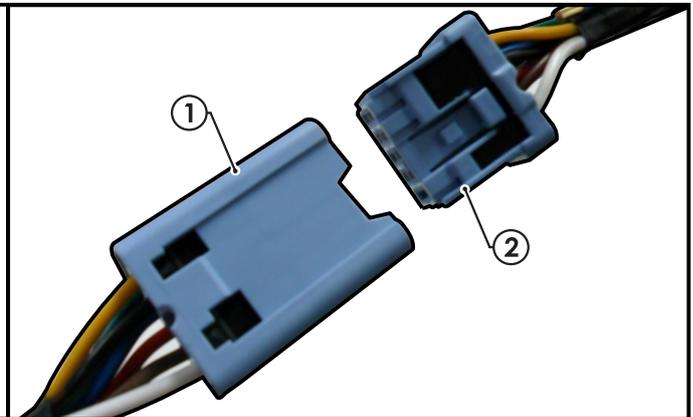
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16. Mount the trailer socket (1) to the tow bar mounting bracket using M4 fasteners (not supplied).
17. Route the tail harness (tail length: 1200mm) (2) across the tow bar towards the RHS of the vehicle and up through the previously drilled hole.
18. Ensure the tail harness grommet (3) is seated correctly and secure in place using a cable tie (not supplied).



19. Connect the tail harness 8-way connector (1) to the trailer wiring harness mating 8-way connector (2).



20. Test the trailer wiring harness function using a light board or multi-meter.
21. Secure all harnesses using cable ties (not supplied).
22. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
23. Place the fitting instructions in the glove box after fitment.

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# FITTING INSTRUCTIONS

## Smart Pin (55070BL)

• These fitting instructions are supplied to ensure understanding of how the SMART PIN should be fitted and used correctly.

• Once installed, we recommend **ALL** instructions are kept and placed in the vehicle glove box.

**NOTE: Routine maintenance and inspection of the towbar & SMART PIN is required. Regularly inspect for wear and check the tightness of the SMART PIN NUT. Follow instructions below to retighten the nut when necessary.**

**\*Do not tow with your vehicle if the R CLIP or the SMART PIN NUT is loose or missing. Replacement parts are available from your Hayman Reese Distributor.**

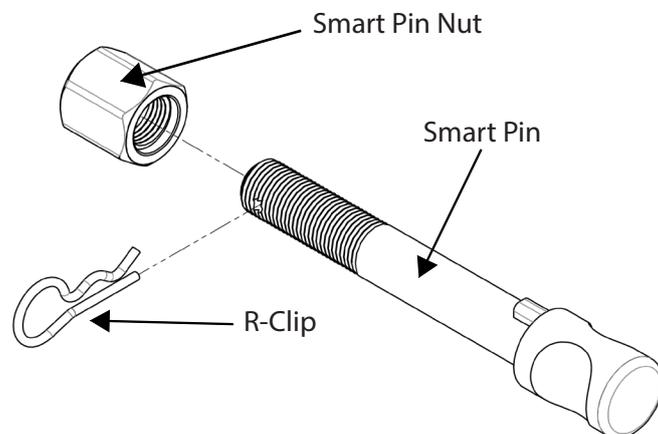
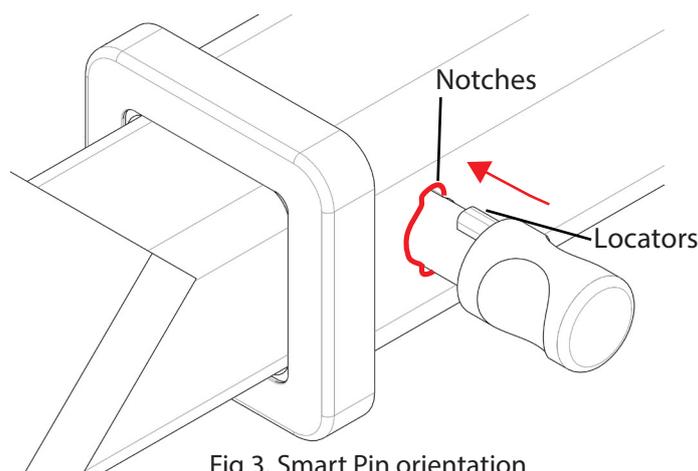
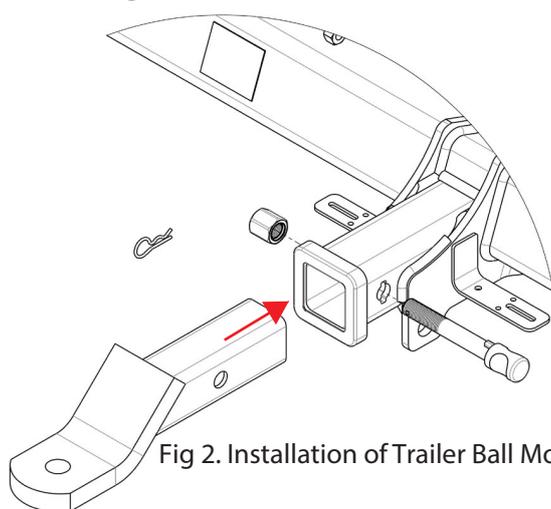


Fig 1. Smart Pin assembly

### STEP 1

Insert Trailer Ball Mount (TBM) into towbar HITCHBOX, aligning hole in TBM SHANK with hole in HITCHBOX (Fig. 2).



### STEP 2

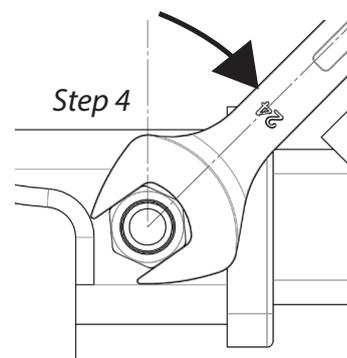
Insert SMART PIN through hole in HITCHBOX and hole in TBM SHANK; ensure the LOCATORS are inserted into the NOTCHES in the HITCHBOX (Fig. 3).

### STEP 3

Screw SMART PIN NUT onto SMART PIN; tighten SMART PIN NUT until finger tight, ensuring TBM is restrained from 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 on the SMART PIN (Fig. 1).

