



Towbar Fitting Instructions  
To Suit **MERCEDES BENZ M CLASS 04/2012 - ON**  
Part Number **QTMB181L**  
Rating **3500 kg**

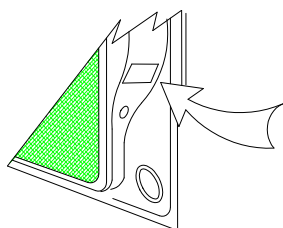
PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION IS COMPLETE

**WARNING:**

1. Do not, drill, cut, weld or otherwise modify the tow bar.
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. 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 **Trailboss** dealer if further information is required.

**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. For vehicles that require the bumper to be cut. Ensure cut out area is in correct position on the vehicle prior to cutting the bumper.
7. 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 authorized **Trailboss** dealer if further information is required.
8. Ensure that all hardware is fastened to torque list below check fasteners on regular basis.
9. Tow bar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door. **(See diagram below).**
10. Trailboss recommends that you check your tow ball to ensure that it complies with the Australian standards **AS 4177.2.**
11. **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
12. Pull Pin must be fit in down position.



Place load rating sticker  
inside driver's door here

**FOR TRAILER TOWING PURPOSES ONLY**  
For towing capacity details please refer to vehicle owner's manual or to the manufacturer. Overloading can void your warranties.

**RECOMMENDED ASSEMBLY TORQUE LISTING**

| Diameter | Grade 8.8 Bolt |
|----------|----------------|
| M6       | 9.5 Nm         |
| M8       | 21.7 Nm        |
| M10      | 43.4 Nm        |
| M12      | 77.3Nm         |
| M14      | 146 Nm         |
| M16      | 189.8 Nm       |

**Tow bar Maintenance and Care.**

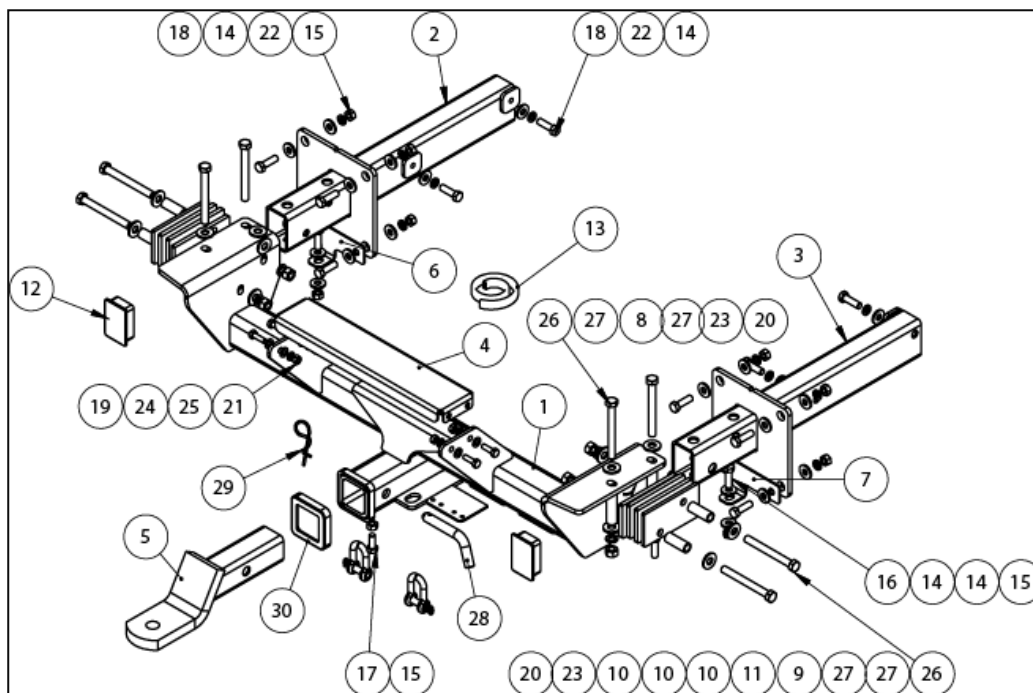
Trailboss recommends that bolt torque's, as listed below, are routinely and regularly inspected and checked for correct tension. Replace any worn or defective parts.

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.

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



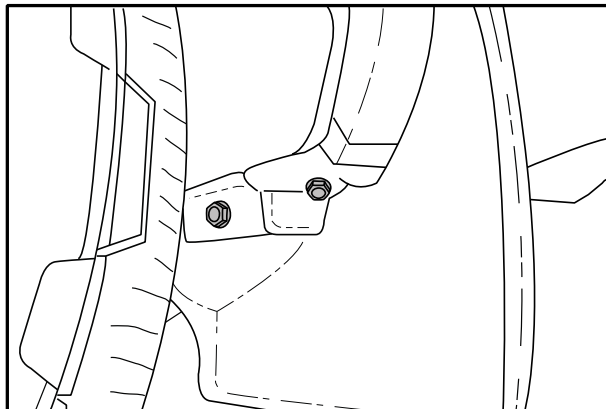
| QTY. | DESCRIPTION                      | ITEM NO. |
|------|----------------------------------|----------|
| 1    | TOWBAR WELDED ASSEMBLY           | 1        |
| 1    | LHS CHASSIS INSERT               | 2        |
| 1    | RHS CHASSIS INSERT               | 3        |
| 1    | SUPPORT STEP                     | 4        |
| 1    | CLASS 4 TBM                      | 5        |
| 1    | LH SUPPORT BRACKET               | 6        |
| 1    | RH SUPPORT BRACKET               | 7        |
| 4    | SPACER TUBE LONG                 | 8        |
| 4    | SPACER TUBE SHORT                | 9        |
| 6    | PACKER - 8mm                     | 10       |
| 2    | PACKER - 6mm                     | 11       |
| 2    | PLASTIC END CAP                  | 12       |
| 1    | BUMPER TRIM PINCH WELD 400mm     | 13       |
| 24   | WASHER FT M10 x25.4              | 14       |
| 11   | HEX NUTM10 x 1.5                 | 15       |
| 3    | BOLT M10-1.5x 35mm               | 16       |
| 1    | BOLT M10-1.5 x 25                | 17       |
| 12   | BOLT M10-1.5x35mm                | 18       |
| 4    | BOLT M8 x 25                     | 19       |
| 8    | M12 x 1.25 HEX NUT               | 20       |
| 4    | M8 - 1.25 NUT                    | 21       |
| 12   | SPRING WASHER M10 x 3.5 x 2.2    | 22       |
| 8    | WSHR SPRING FT SEC M12x4.0x2.0mm | 23       |
| 8    | WSHR FT M8x17x1.20 Z/P           | 24       |
| 4    | WSHR SPRING FT SEC M8x3.0x2.0mm  | 25       |
| 8    | BOLT M12-1.25x110 GR8.8          | 26       |
| 16   | WASHER M12x28.8x3mm              | 27       |
| 1    | PULL PIN                         | 28       |
| 1    | RCLIP                            | 29       |
| 1    | HITCH BOX COLLAR COVER           | 30       |



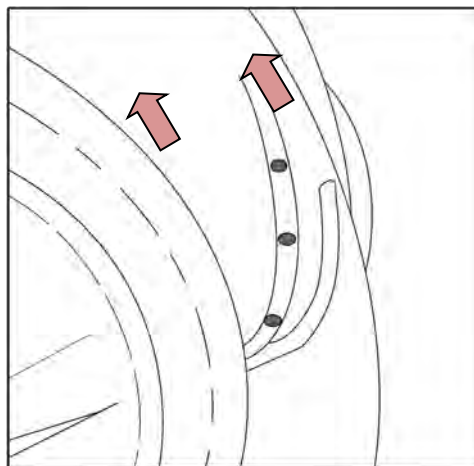
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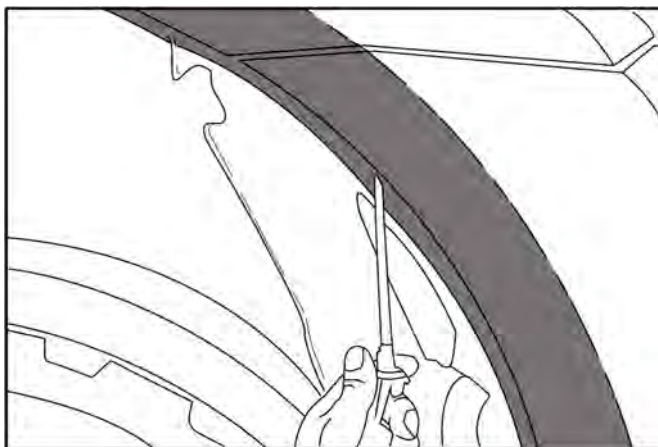
1. Remove the 3 Scrivets and 2 Bolts (or 5 Scrivets on vehicles without mudguard) which holding the Mudflaps to the Bumper.



2. If mudflap is fitted, remove most bolts which holding the mudflap bracket and wheel arch trim of the vehicle.



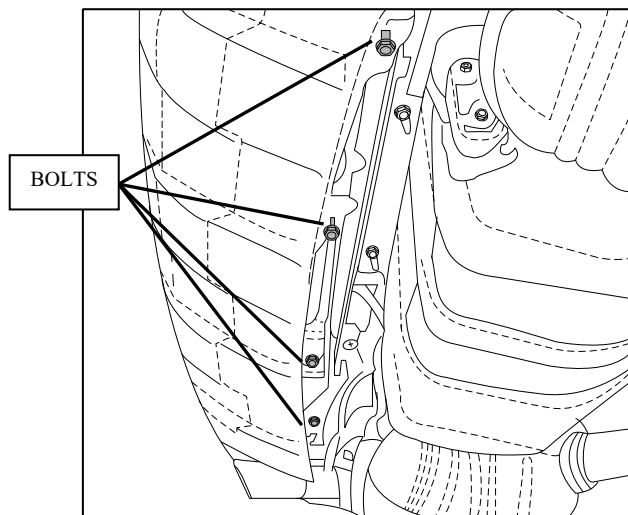
3. Use a screw driver to pull back the wheel arch trim and remove most bolts which holding the bumper of the vehicle.



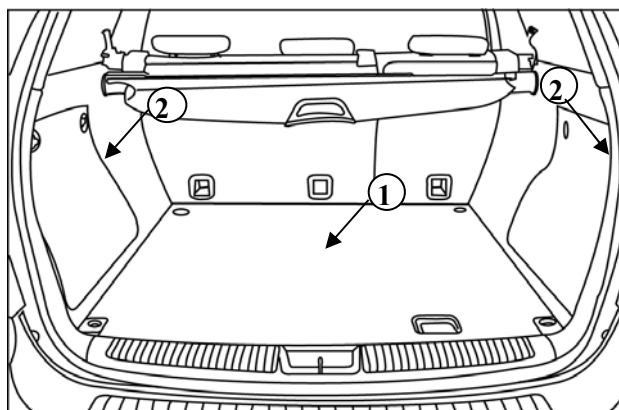
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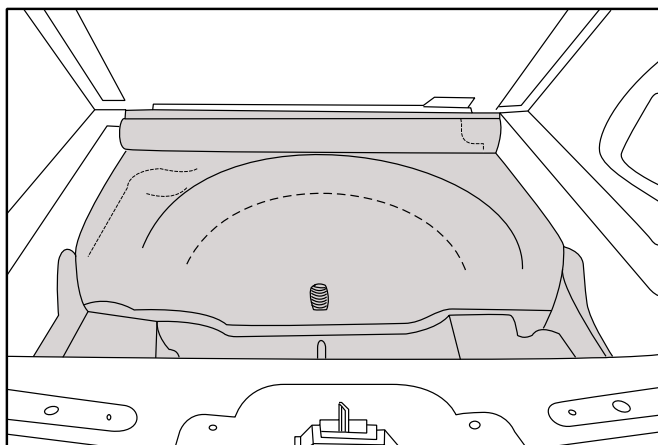
4. Remove the four Bolts which holding the bottom of the Bumper.



5. Remove the floor panel and also the LHS & RHS panels.



6. Remove the spare tyre and the Jack Assembly from rear tyre well.

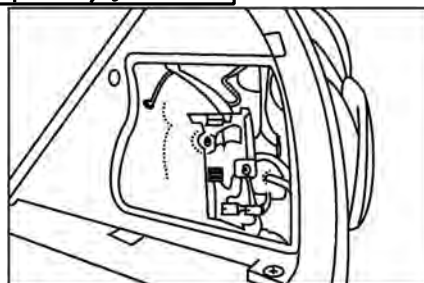
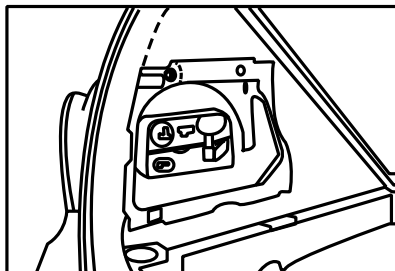


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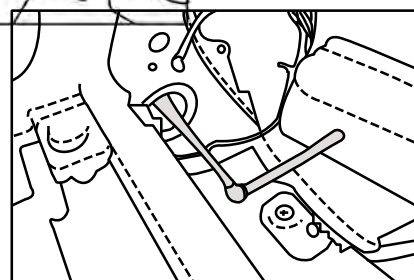
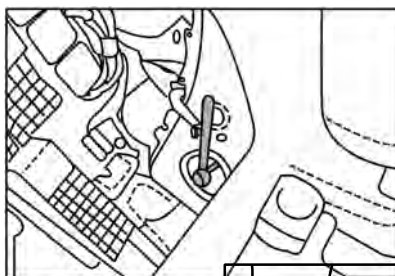
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7. To post 2012 models, remove both LH and RH light assemblies to provide better access to remove Bumper. Remove Bumper by firmly pulling outwards to detach from clips.

Note: Disconnect rear parking sensor plug if fitted.



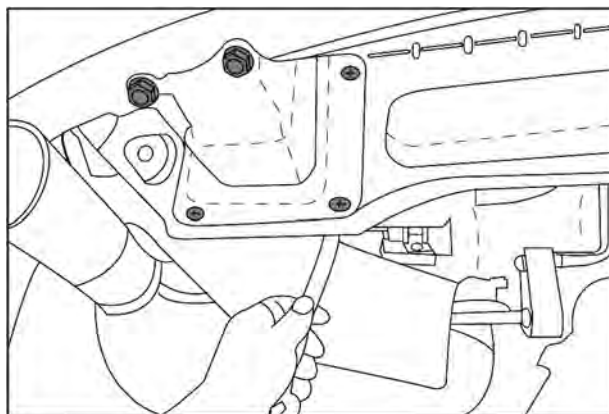
8. To pre 2012 models remove both LH and RH Bolts which holding the bumper of the vehicle. Remove the two Nuts which holding the bumper to the vehicle and firmly pull on bumper to remove.



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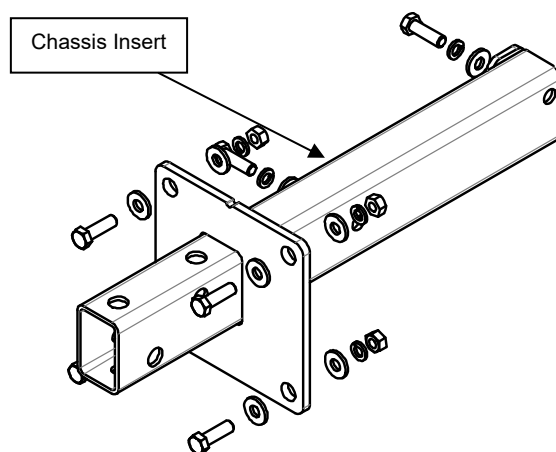
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9. Remove the four Nuts holding the rear Impact Beam which inside of the vehicle and the four Nuts underneath of the vehicle. Also remove the Fuel Tank Cover Bracket Bolts and Muffler Heat Shield Bolts.

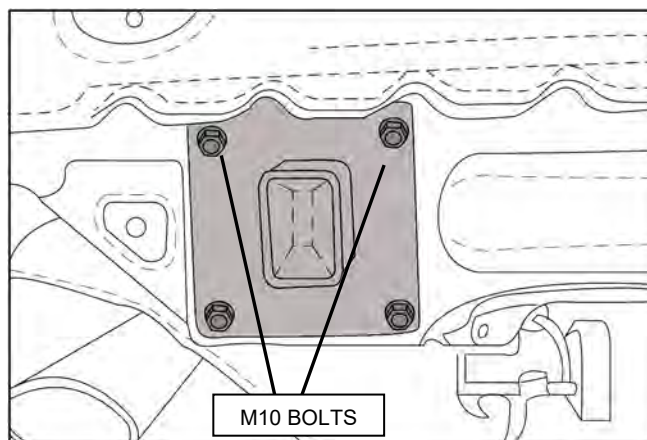


10. Locate Chassis Inserts to vehicle. Loosely secure both forward mounts using M10x35 Bolts with Spring and Flat Washers.

**Note.** For some models, the rearward (of vehicle) chassis hole may need to be enlarged to a 13mm hole. If required, drill out, deburr and protect the raw material with a suitable rust preventative coating.



11. Loosely secure the chassis inserts to the rear panel on the vehicle using M10x35 Bolts with Spring, Flat Washers and M10 Nuts.

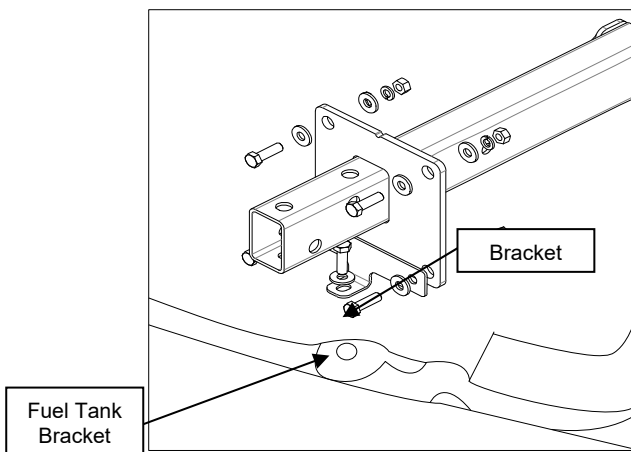


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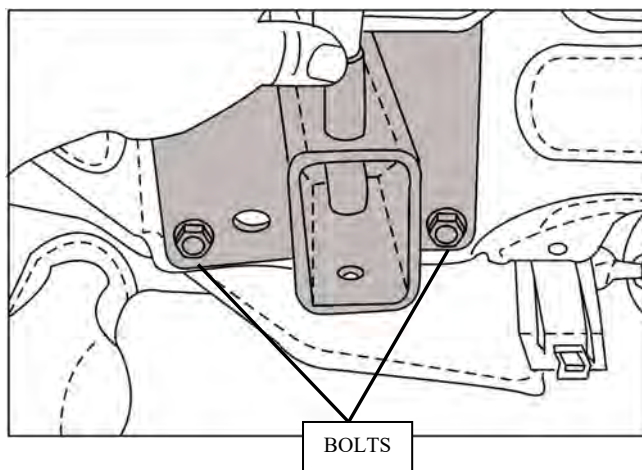
- 12.** To post 2012 models, secure supplied Bracket which mount on Chassis Inserts plate to fuel tank cover bracket by using supplied M10x35 bolts with Spring, Flat Washers and M10 nuts.

To pre 2012 models disregard this step and supplied brackets.

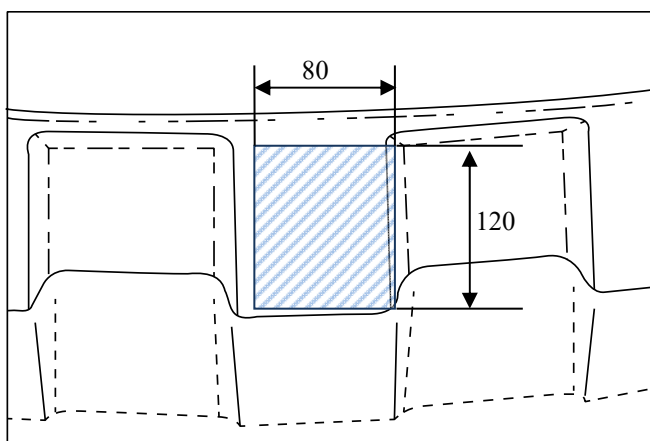


- 13.** Insert spacer tubes into top and sides of the chassis inserts.  
Fit main towbar according to diagram on Page 3.

Torque all fasteners to specification shown in Page 2.



- 14.** Cut 80mm wide 120mm long from the bottom centre of the bumper bar and fit the bumper trim provided over the cut.  
Refit bumper skin back on vehicle and all associated panels and parts.





## WIRING LOOM INSTALLATION INSTRUCTIONS

PART NUMBER: 100179-WL  
Mercedes E-Class & Mercedes M-Class

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

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### PRODUCT DETAILS:

**Part Number:** 100179-WL

**ECU Number:** 04826

**Tail Harness Length Required:** E-Class: 1200mm  
ML25/ML350 : 1800mm

**Electric Brake Input Location:** N/A

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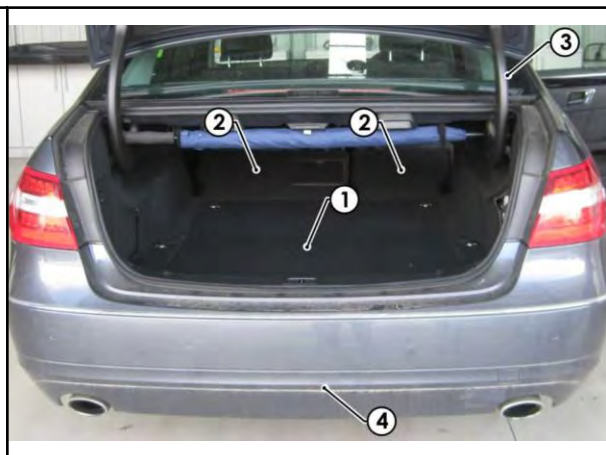
### FITTING DETAILS:

**Total Installation Time:** 60 minutes      **RPA Disable:** N/A

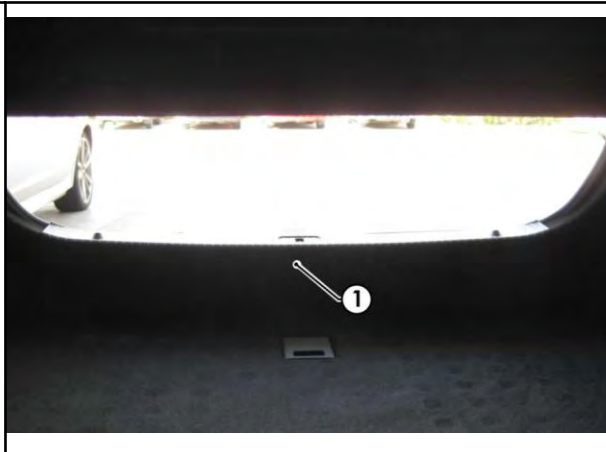
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**1. The following steps are for Mercedes E-class models only. For Mercedes ML250/ML350-Class models, please proceed to step 8.**

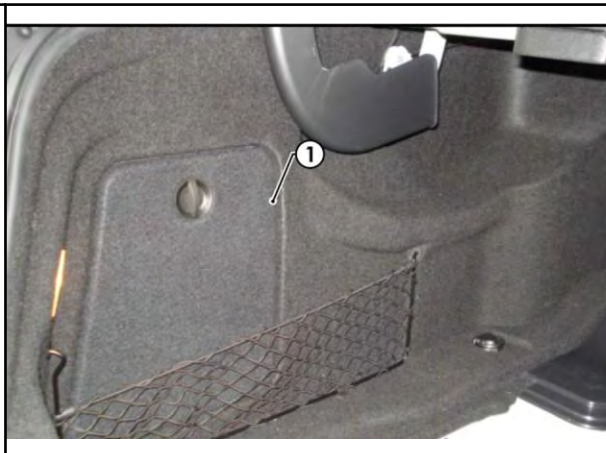
- In the luggage compartment, remove the floor carpet cover (1).
- Fold the rear seats (2) forwards.
- Remove the RHS boot hinge cover trim (3).
- From outside the vehicle, remove the rear bumper (4).



**2. • Back inside the luggage compartment, remove the rear trim (1).**

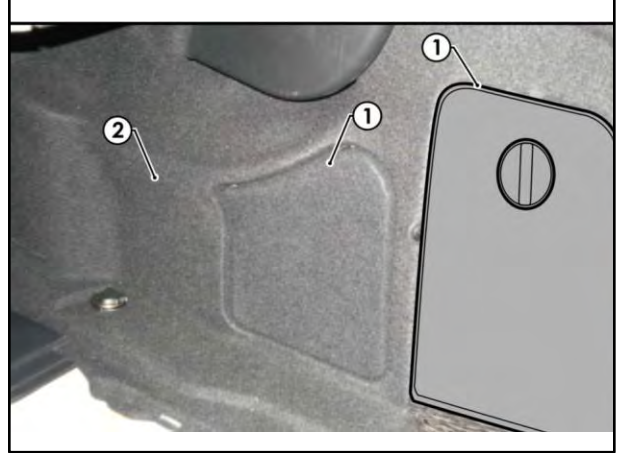


**3. • Remove the LHS access panel cover (1).**

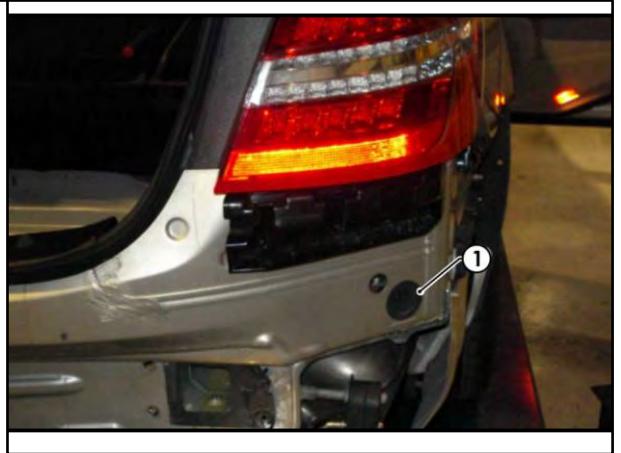


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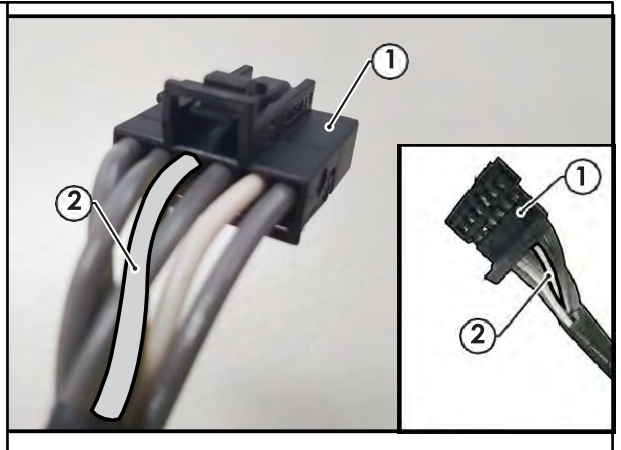
- 4.
- Remove RHS access panel covers (1).
  - Remove the RHS side trim (2) by first removing a fasteners.



- 5.
- From outside the vehicle, remove the RHS rear grommet (1).
  - Drill out the grommet hole to Ø30mm.
  - File any rough or sharp edges and spray on rust inhibitor.



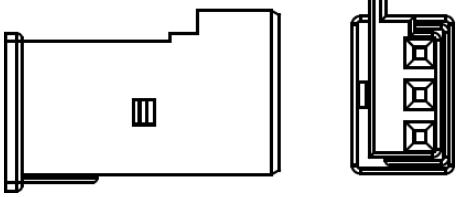
- 6.
- Inside the luggage compartment, disconnect the LHS tail light connector (1).
  - Using a jeweller's screwdriver, remove the wire (2) (Car LHS indicator) from the connector body pin 3.
  - Replace the White/Black wire removed from Pin 3 with the Yellow/Black wire with female terminal on the trailer patch harness.



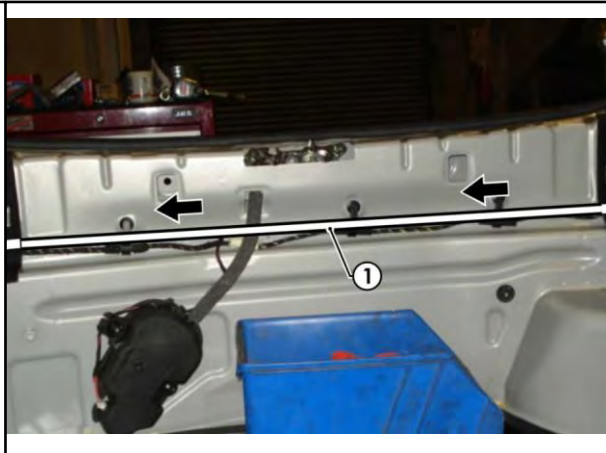
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7. • House the removed Black/White wire into cavity one of the supplied housing for female terminals such as that Black/White mates to Yellow/Black wire on the patch harness.

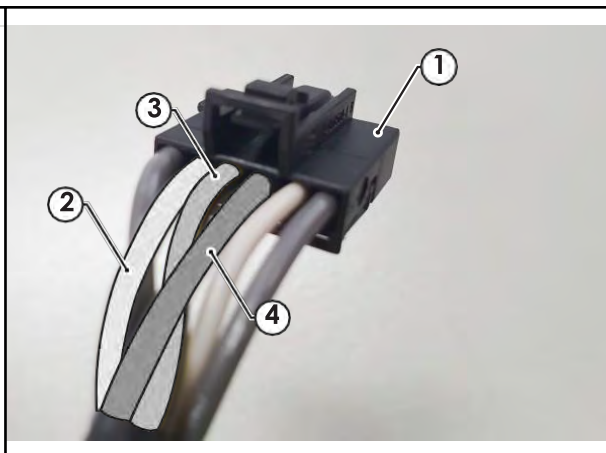
| Position | Vehicle Harness | Patch Harness Colour | Function      |
|----------|-----------------|----------------------|---------------|
| 1        | Black/White     | Yellow/Black         | LHS indicator |
| 2        | –               | –                    | –             |
| 3        | –               | –                    | –             |



8. • Route the trailer harness (1) from the LHS, along the rear of the vehicle and towards the RHS.



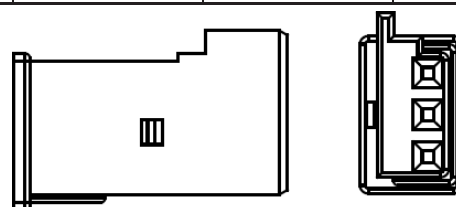
9. • Disconnect the RHS tail light connector (1).
- Using a jeweller's screwdriver, remove the following wires from the connector:
    - Green/White (Pin 2) (Car tail) (2).
    - Green/Black (Pin 3) (Car RHS indicator) (3).
  - - Blue/Red (Pin 4) (Car brake) (4).
  - Replace the previously removed wires with the wires on the trailer harness patch as follows:
    - Green/White (Pin 2) with Brown/Black.
    - Green/Black (Pin 3) with Green/Black.
    - Blue/Red (Pin 4) with Red/Black.



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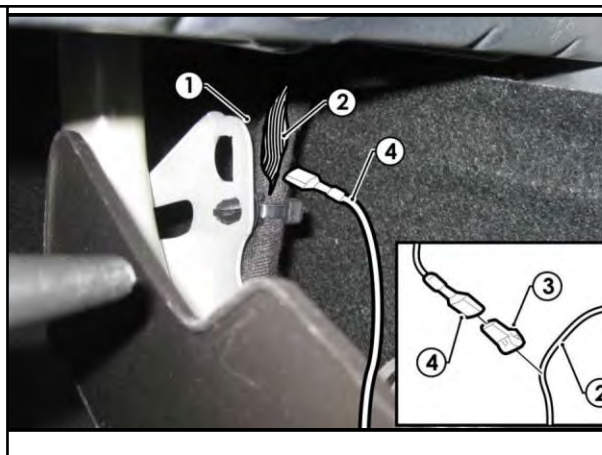
10. • House the removed Green/White, Green/Black and Blue/Red wires into the supplied housing for female terminals such that the Green/White mates to the Brown/Black wire on the Patch harness, Green/Black mates to the Green/Black wire on the patch harness and Blue/White mates to the Red/Black wire on the patch harness.

| Position | Vehicle Harness | Patch Harness Colour | Function      |
|----------|-----------------|----------------------|---------------|
| 1        | Green/White     | Brown/Black          | Tail lights   |
| 2        | Green/Black     | Green/Black          | RHS indicator |
| 3        | Blue/Red        | Red/Black            | Brakes        |

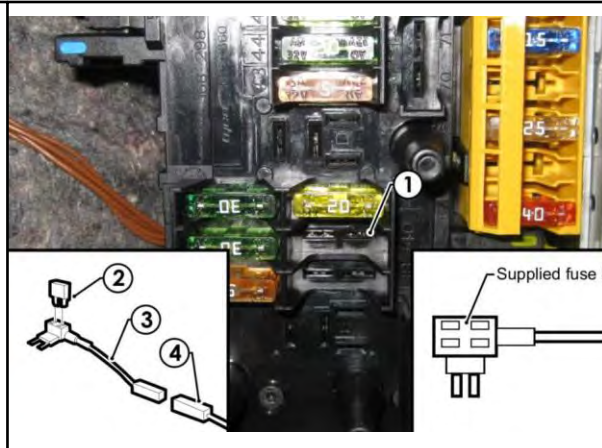


11. • Locate the wiring loom (1) behind the RHS boot hinge.
- Cut open the wiring loom (1) and locate the vehicle 'GREY/BLUE' reverse wire (2).

| Function | Trailer Patch | Vehicle Connector |
|----------|---------------|-------------------|
| Reverse  | Black/White   | Grey/Blue         |

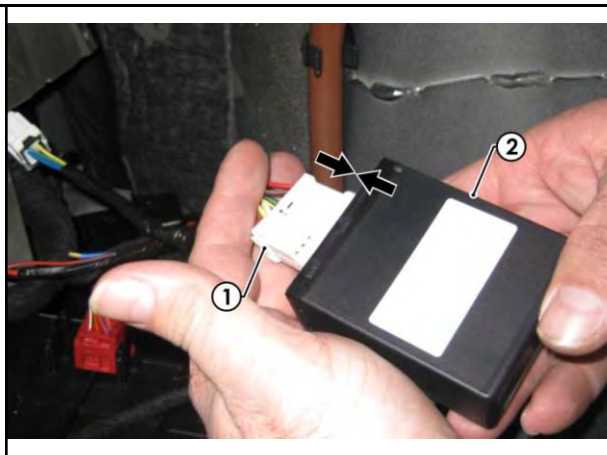


12. • Locate the vacant slot (1) in the vehicle fuse panel, just below the vehicle 20-amp fuse.
- Insert the supplied 30-amp (2) fuse into the upper slot of the add-a-fuse harness (3).
  - Connect the add-a-fuse harness (3) into the vacant slot (1) on the fuse panel.
  - Connect the trailer harness 1-way connector (4) to the add-a-fuse harness (3) mating connector.

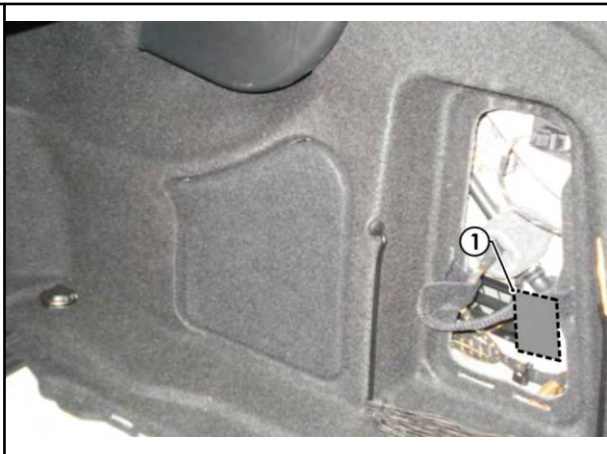


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13. • Connect the trailer harness 12-way connector (1) into the ECU (2).



14. • Using double sided tape, adhere the ECU to the vehicle sheet metal area (1) as shown.



15. • Connect the trailer harness ground ring terminal (1) to the vehicle grounding point (2).

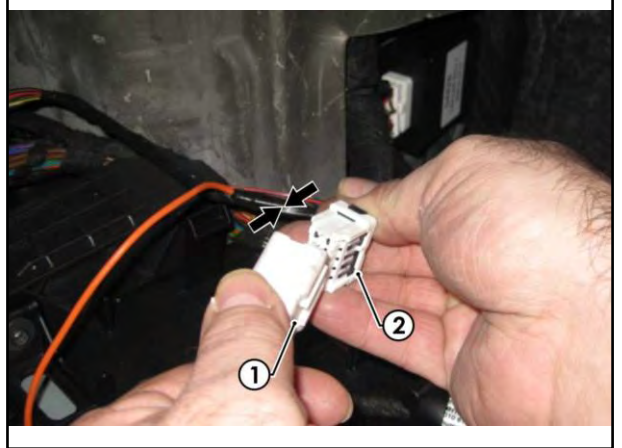


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16. • Mount the trailer socket (1) to the towbar mounting bracket using M4 fasteners (not supplied).
- Route the tail harness (tail length 1200mm) (2) into the luggage compartment, through the previously drilled out grommet hole.
  - Ensure the tail harness grommet is seated correctly and secure in place using a cable tie (not supplied).



17. • Connect the tail harness (tail length 1200mm) 8-way connector (1) to the trailer harness mating 8-way connector (2).



18. • Test the trailer harness function using a light board or multimeter.
- Secure all harnesses using cables ties (not supplied).
  - Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
  - Connect the tail harness (tail length 1200mm) 8-way connector (1) to the trailer harness mating 8-way connector (2).

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**1. The following steps are for Mercedes ML250/ ML350-Class vehicle models. For Mercedes E-Class models, please refer to page 2.**

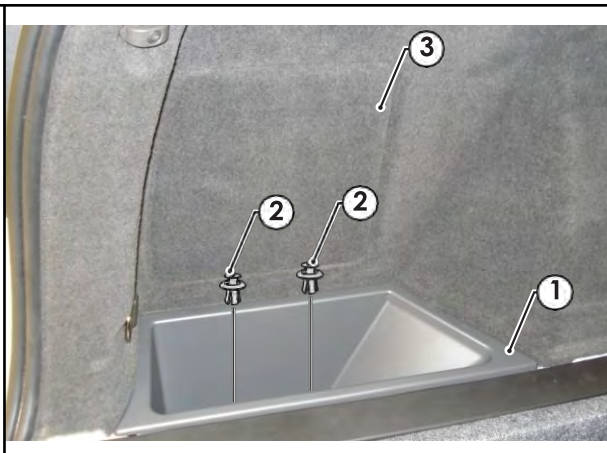
- In the luggage compartment, remove the plastic cover (1).
- Remove the parcel shelf support (2).



**2. • Remove the carpet cover (1).**



- 3. • Remove both the LHS & RHS storage trays (1) by first removing the two clips (2).**
- Remove both the LHS & RHS access panels (3).

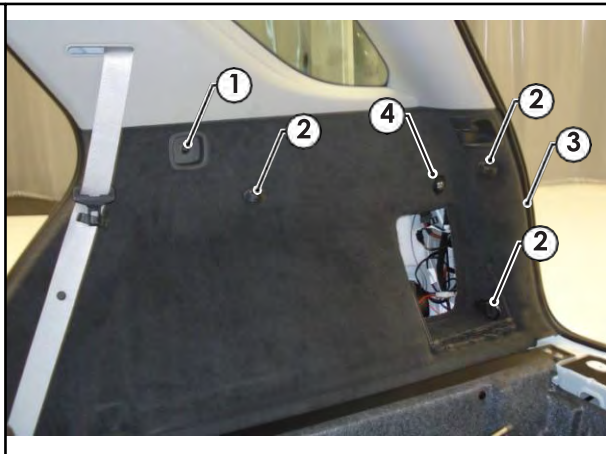


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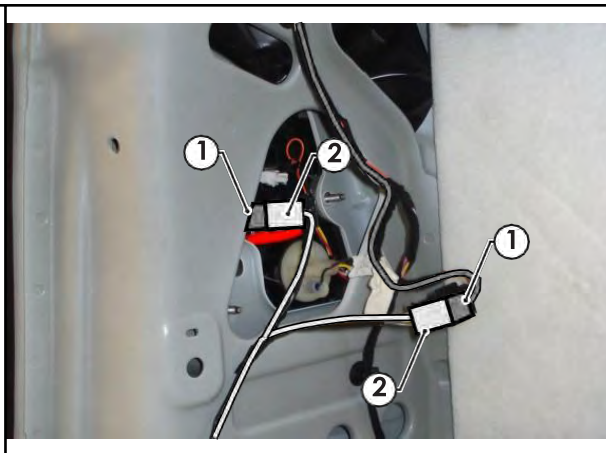
4. • Remove the rear luggage compartment trim (1) by pulling in an upwards direction.



5. • On the RHS of the luggage compartment, remove the parcel shelf screw (1) and the three cargo hooks (2).  
• Whilst dislodging the RHS luggage compartment trim (3), disconnect the 2-way connector (4).  
• Remove the RHS luggage compartment (3) from the vehicle.



6. • On the LHS of the luggage compartment, disconnect the vehicle tail light assembly connectors (1) and connect the trailer patch (100179-WL) connectors (2) in between.

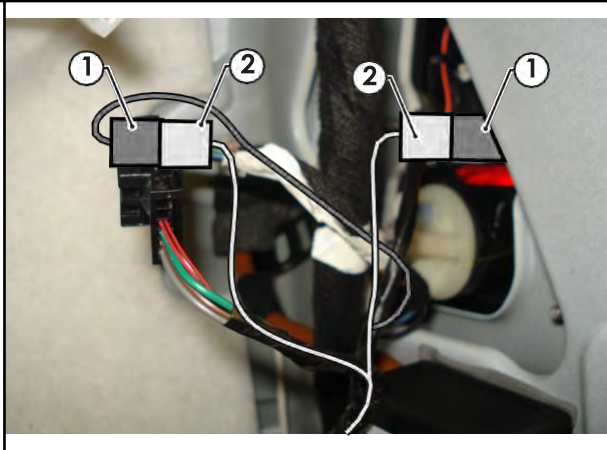


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7. • Route the trailer harness (1) along the rear of the luggage compartment towards the RHS of the vehicle.

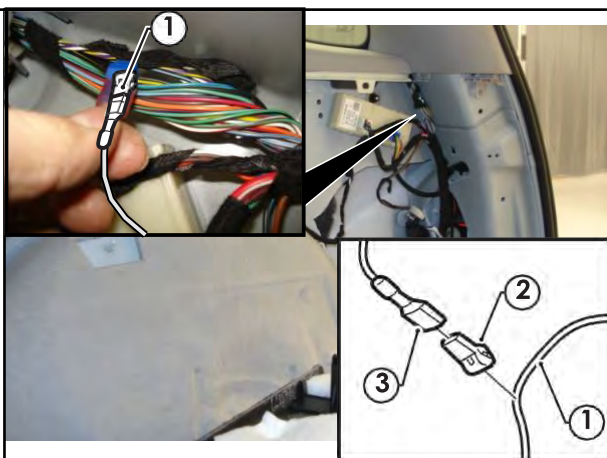


8. • On the RHS of the luggage compartment, disconnect the tail light assembly connectors (1) and connect the trailer patch connectors (2) in between.



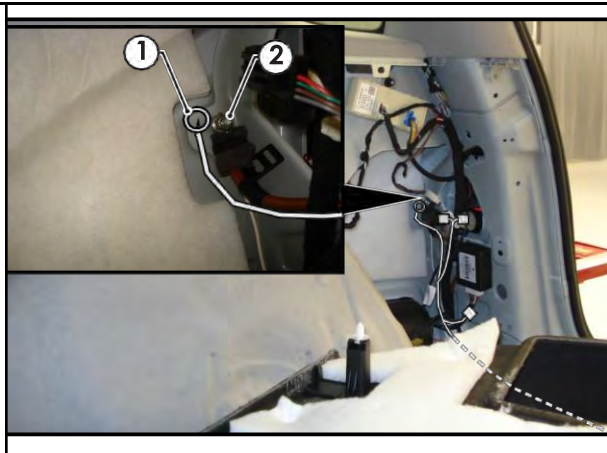
9. • Locate the 'BLACK / YELLOW' vehicle wire (1) in the location shown.
- Following the table below, connect the ezy tap (2) to the harness wire (1) and then connect the trailer harness terminal (3) to the ezy-tap (2).

| Function | Trailer Patch | Vehicle Connector |
|----------|---------------|-------------------|
| Reverse  | Black/White   | Yellow/Black      |

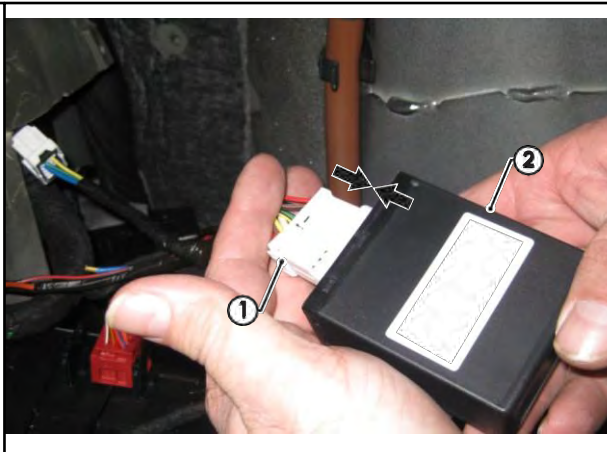


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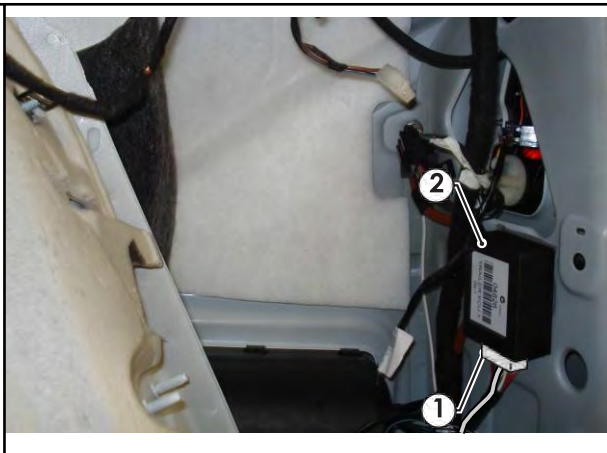
10. • Secure the ground ring terminal (1) to the vehicle grounding point (2) in the location shown.



11. • Connect the trailer harness 12-way connector (1) into the ECU (2).

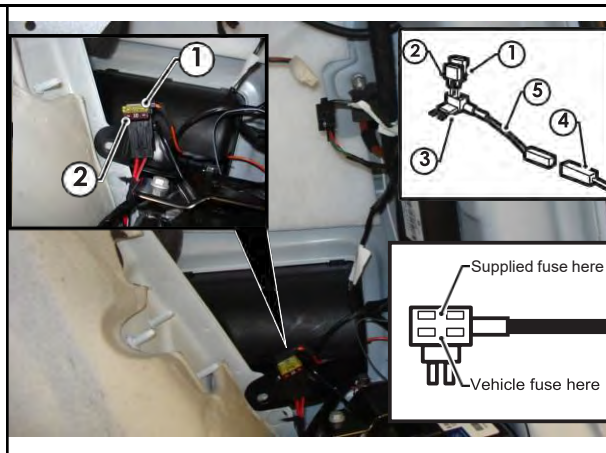


12. • Secure the ECU to the vehicle by using double sided adhesive tape.

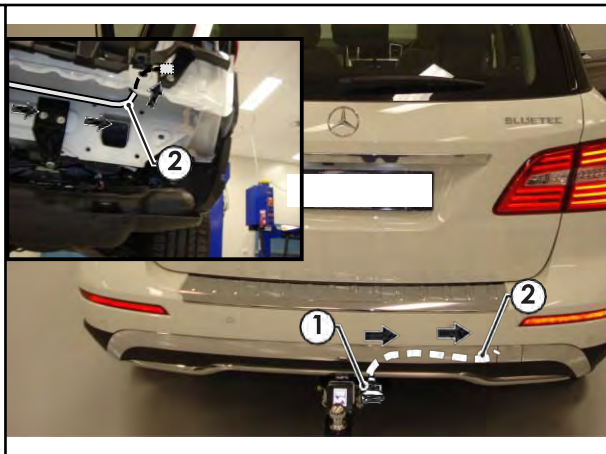


PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

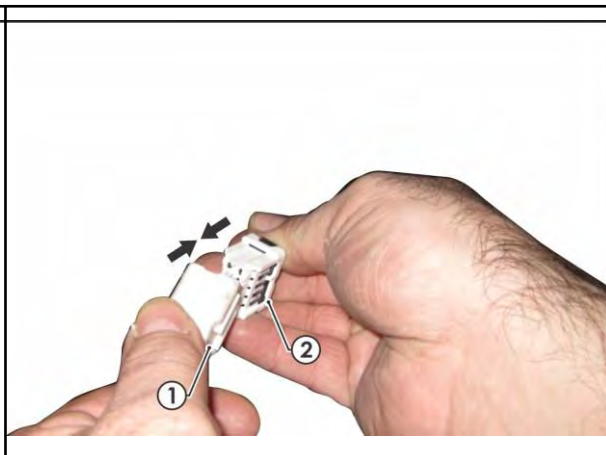
13. • Locate the 10-amp (1) fuse as shown and remove.
- Insert the supplied 20-amp fuse (2) into the upper slot of the add-a-fuse (3) and insert the previously removed 10-amp fuse (1) into the bottom slot of the add-a-fuse (3).
  - Plug the add-a-fuse (3) into the previously removed 10-amp fuse slot.
  - Connect the power patch 1-way connector (4) into the add-a-fuse harness mating connector (5).



14. • Mount the trailer socket (1) to the towbar mounting bracket using M4 fasteners (not supplied).
- Route the tail harness (tail length 1200mm) (2) into the luggage compartment, through the existing grommet hole.
  - Ensure the tail harness grommet is seated correctly and secure in place using a cable tie (not supplied).



15. • Connect the tail harness (tail length 1200mm) 8-way connector (1) to the trailer harness mating 8-way connector (2).



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