PART No: 03089RW

MERCEDES BENZ E CLASS WAGON 06/2013 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 90 Mins

Towbar Installation Instructions Towbar capacity

MERCEDES BENZ E CLASS WAGON 06/2013 ONWARD

Part Number 03089RW Max Towing I

Max Towing Braked 2100 kg Max Towing Unbraked 750 kg Max Static Ball Load 84 kg



PART No: 03089RW

MERCEDES BENZ E CLASS WAGON 06/2013 ONWARD

INSTALLATION INSTRUCTIONS

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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, <u>always</u> check that the vehicle is not equipped with electronic engine or instrument management equipment. Failure to do so could <u>destroy</u> 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).
- 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.



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

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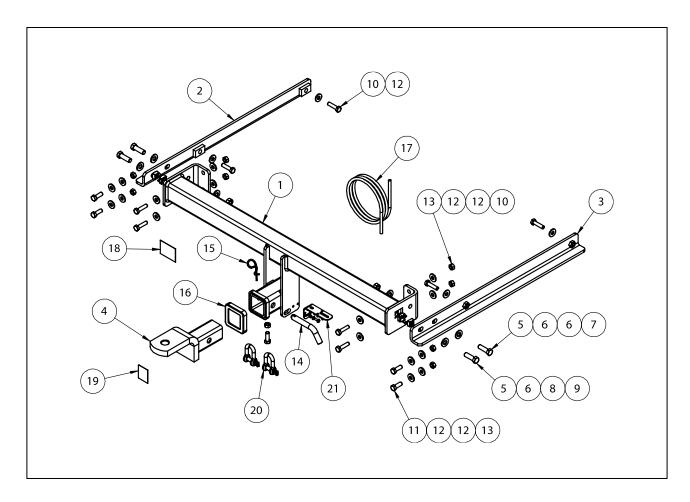


PART No: 03089RW

MERCEDES BENZ E CLASS WAGON 06/2013 ONWARD

INSTALLATION INSTRUCTIONS

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QTY.	DESCRIPTION	ITEM NO.
1	WELDED ASSY	1
1	SIDE ARM WELDED ASSY-LHS	2
1	SIDE ARM WELDED ASSY-RHS	3
1	TBM ASSY	4
4	SET SCREW M12x40x1.75P	5
6	WASHER FLAT 1/2"x1 1/8"x 1/8"	6
2	HEX NUT M12x1.75 PC8	7
2	CAGE NUT M12x1.75P	8
2	CAGE NUT RETAINER	9
8	BOLT M10-1.5 x40mm	10
5	SET SCREW HEX HD M10x30x1.5P	11
20	WASHER FT M10x25.4x3	12
9	HEX NUT M10x1.5	13
1	PULL PIN	14
1	SPRING COTTER PIN ASSY	15
1	HITCH BOX COLLAR COVER	16
2	D SHACKLE	17
1	WIRING LOOM	18
1	ACRYLIC COMPLIANCE PLATE	19
1	H .R STICKER	20
1	UNIVERSAL PLUG BRACKET KIT	21

PART No: 03089RW

MERCEDES BENZ E CLASS WAGON 06/2013 ONWARD

INSTALLATION INSTRUCTIONS

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

1. Remove 2x Screws and 2x plastic push Rivets from within rear wheel arch. Repeat for opposite side of vehicle. 2. Remove 2x Screws from underside of bumper, behind rear wheel arch. Repeat for opposite side of vehicle.

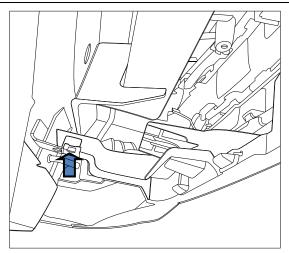
PART No: 03089RW

MERCEDES BENZ E CLASS WAGON 06/2013 ONWARD

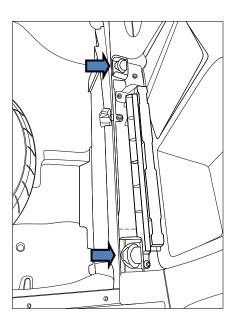
INSTALLATION INSTRUCTIONS

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

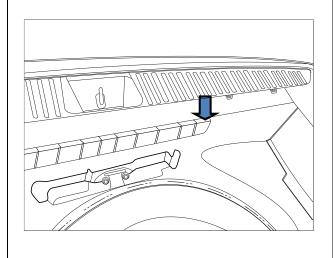
3. Remove 2x Screws from underside of bumper, at rear end of the vehicle.



- **4.** Remove boot mat and boot floor or storage bin, as applicable, to expose spare wheel.
- **5.** Where applicable, remove 4x Anchor points in boot (2 per side) and remove plastic trim within boot, covering chassis rails.



6. Remove 2x Screws securing trim on rear face of boot (1 per side).



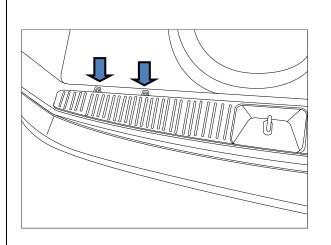
PART No: 03089RW

MERCEDES BENZ E CLASS WAGON 06/2013 ONWARD

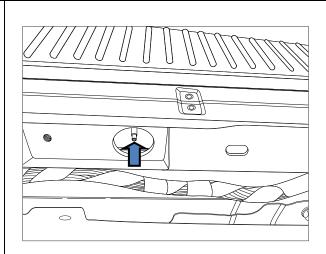
INSTALLATION INSTRUCTIONS

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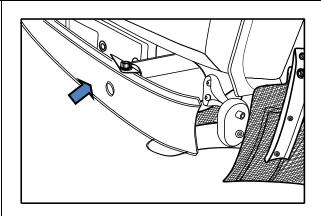
7. Remove 4x Screws securing boot scuff plate (2 per side).



- **8.** Expose rear chassis within boot by pulling away boot lining adjacent to scuff plate.
- 9. Remove 2x Flanged Nuts securing bumper to rear panel. These are located at the newly exposed area from step 8. Note that a long socket will be required to access these Nuts.
- **10.** Carefully remove rear bumper facia, disconnecting parking sensor plug as bumper is removed.



11. Remove and discard impact beam by removing 4 Nuts per side; 2 from within boot adjacent to chassis rails, and 2 from exterior of vehicle, on forward face of rear panel.



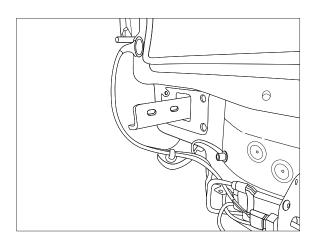
PART No: 03089RW

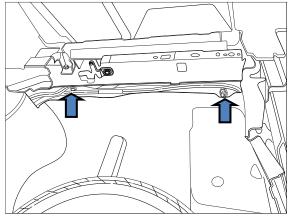
MERCEDES BENZ E CLASS WAGON 06/2013 ONWARD

INSTALLATION INSTRUCTIONS

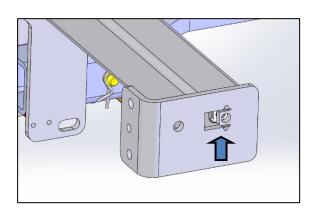
PLEASE ENSURE THAT ALL INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT PLACE THESE INSTRUCTIONS IN THE VEHICLES'S GLOVEBOX AFTER INSTRALLATION IS COMPLETED

- **12.** Using a box cutter, cut a hole in the impact beam gaskets to expose interior of chassis rail.
- 13. Slide Towbar side arms into chassis rails, and loosely secure using 2x M10 x 40mm Bolts per side arm, complete with 1x Flat Washer per bolt. Bolts are to be installed through chassis rail holes from within Boot.





14. Assemble Cage Nuts and insert 1x Cage Nut into each end of main Towbar assembly.



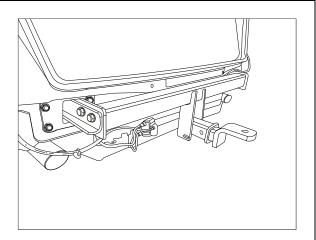
PART No: 03089RW

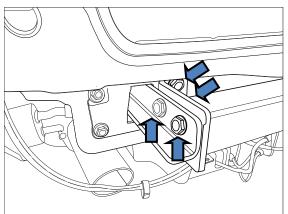
MERCEDES BENZ E CLASS WAGON 06/2013 ONWARD

INSTALLATION INSTRUCTIONS

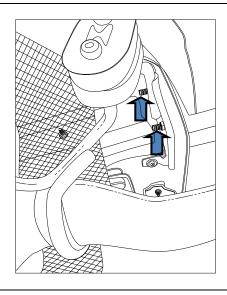
PLEASE ENSURE THAT ALL INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT PLACE THESE INSTRUCTIONS IN THE VEHICLES'S GLOVEBOX AFTER INSTRALLATION IS COMPLETED

- 15. Offer main Towbar assembly to rear of vehicle; loosely secure main Towbar assembly to rear panel using 4x M10 x 40mm Bolts, complete with 2x Flat Washers and 1x Nut per Bolt.
- **16.** Loosely secure side arms to Cage Nuts in main Towbar assembly using 2x M12 x 40mm Set Screws, complete with 1x Flat Washer per set Screw.
- 17. Loosely secure side arms to main Towbar assembly using 2x M12 x 40mm Set Screws, complete with 2x Flat Washers and 1x Nut per Set Screw.





18. Install 4x M10x30 Set Screws into rear panel to secure exhaust mounts, complete with 2x Flat Washers and 1x Nut per Set Screw.



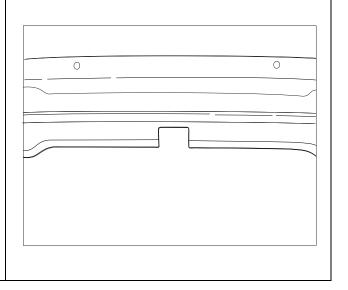
PART No: 03089RW

MERCEDES BENZ E CLASS WAGON 06/2013 ONWARD

INSTALLATION INSTRUCTIONS

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

- **19.** Establish centre of Bumper bar, and create cut in bumper, 90mm wide x 50mm long; ensure that at least 10mm clearance remains to chrome trim.
- **20.** Reinstall bumper facia, following steps 1 to 10 in reverse order.



PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

Wiring Loom Installation Instructions

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

Part No: 100179-WL ECU: 04826

Mercedes E-Class Tail Harness Length Required: 1200mm Mercedes ML250/ML350 Tail Harness Length Required: 1800mm

MERCEDES E - CLASS - Pages: 2-7
MERCEDES ML250 / ML350 - CLASS - Pages: 8-13

Wiring Loom Installation Time: Approx.30 minutes

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MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

INSTALLATION INSTRUCTIONS

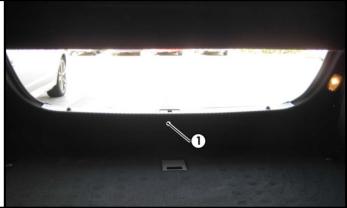
PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

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

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



5. Back inside the luggage compartment, remove the rear trim (1).



6. Remove the LHS access panel cover (1).



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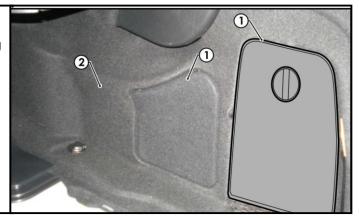
PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

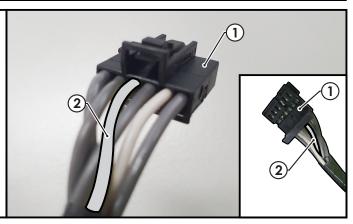
- 7. Remove RHS access panel covers (1).
- **8.** Remove the RHS side trim (2) by first removing any fasteners.



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



- **12.** 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.
- **14.** 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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PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

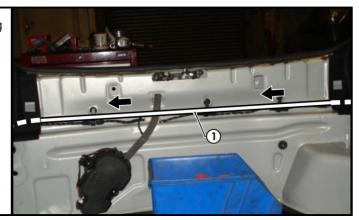
INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

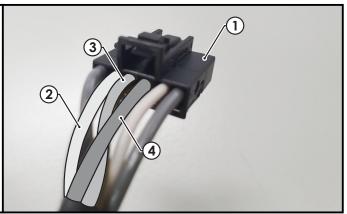
15. House the removed Black/White wire into cavity one of the supplied housing for female terminals such as that Black/White mates to Yellow/Black wire on the patch harness.

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

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



- 17. Disconnect the RHS tail light connector (1).
- **18.** Using a jeweller's screwdriver, remove the following wires from the connector:
 - Green/White (Pin 2) (Cartail) (2).
 - Green/Black (Pin 3) (Car RHS indicator) (3).
 - Blue/Red (Pin 4) (Car brake) (4).
- **19.** 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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Hayman Reese (Cequent)
PO Box 4050, Dandenong South VIC 3164

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PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

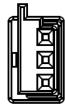
INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

20. 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.

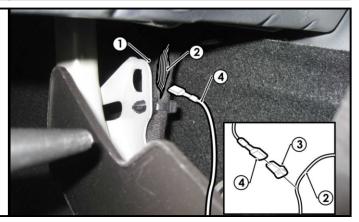
Position	Vehicle Harness Colour	Patch Harness Colour	Function
1	Green/White	Brown/Black	Tail lights
2	Green/Black	Green/Black	RHS indicator
3	Blue/Red	Red/Black	Brakes



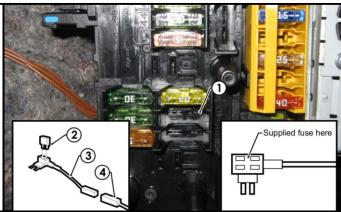


- **21.** Locate the wiring loom (1) behind the RHS boot hinge.
- 22. Cut open the wiring loom (1) and locate the vehicle 'GREY/BLUE' reverse wire (2).23. Following the table below, connect the ezy tap (3) to the harness wire (2) and then connect the trailer harness terminal (4) to the corresponding wire (2).

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



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



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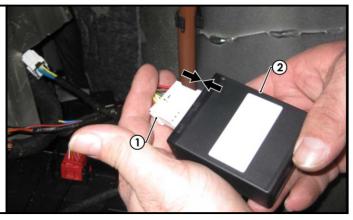
PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

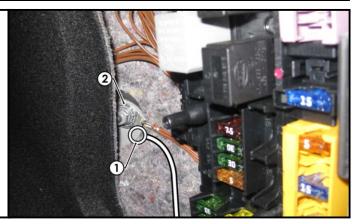
28. Connect the trailer harness 12-way connector (1) into the ECU (2).



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



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



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PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

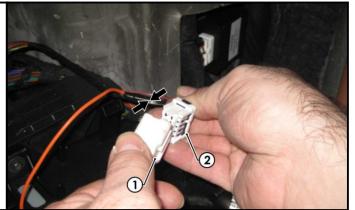
INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

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



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



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

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PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

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

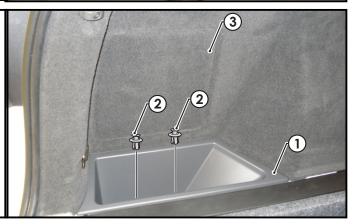
- 1. In the luggage compartment, remove the plastic cover (1).
- 2. Remove the parcel shelf support (2).



3. Remove the carpet cover (1).



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



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PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

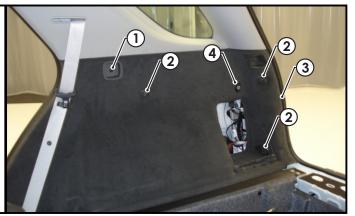
INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

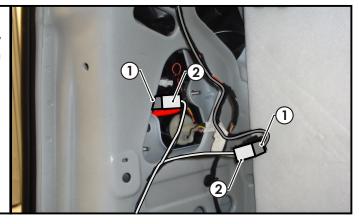
6. Remove the rear luggage compartment trim (1) by pulling in an upwards direction.



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



10. 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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PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

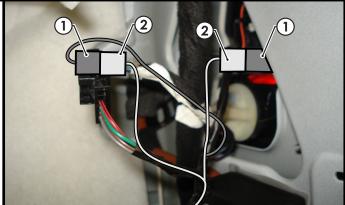
INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

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

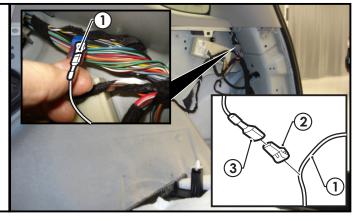


12. On the RHS of the luggage compartment, disconnect the tail light assembly connectors (1) and connect the trailer patch connectors (2) in between.



- **13.** Locate the 'BLACK / YELLOW' vehicle wire (1) in the location shown.
- **14.** 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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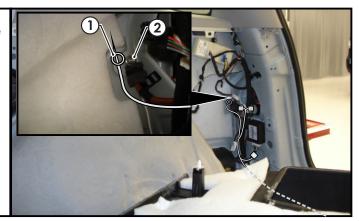
PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

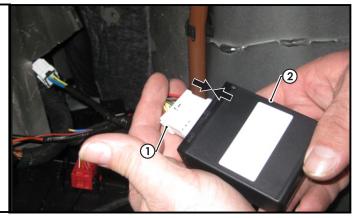
INSTALLATION INSTRUCTIONS

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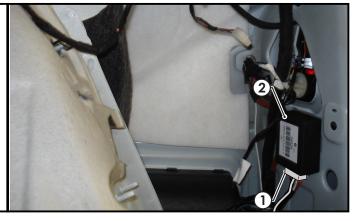
15. Secure the ground ring terminal (1) to the vehicle grounding point (2) in the location shown.



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



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



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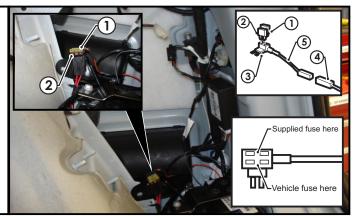
PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

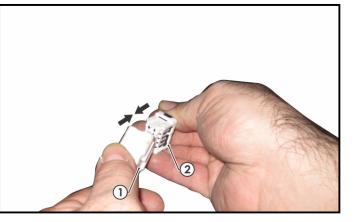
- **18.** Locate the 10-amp (1) fuse as shown and remove.
- **19.** Insert the supplied 20-amp fuse (2) into the upper slot of the add-a-fuse (3) and insert the previously removed 10-amp fuse (1) into the bottom slot of the add-a-fuse (3).
- **20.** Plug the add-a-fuse (3) into the previously removed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



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



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



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PART No: 100179-WL

MERCEDES E-CLASS & MERCEDES ML250 / ML350-CLASS (2011 - Onwards)

INSTALLATION INSTRUCTIONS

PLEASE ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT

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

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