

TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER 03176RW

MERCEDES GLS X166 CLASS 4



PRODUCT DETAILS:

Part Number: 03176RW **Maximum Towing Braked:** 3402 kg **ECU Number:** WLE70005 **Maximum Towing Unbraked:** 750 kg **Tail Harness Length Required: Maximum Static Ball Load:** 1200 mm 272 kg **TBM/Lug Part Number:** 21325

FITTING DETAILS:

Towbar Installation Time: 120 Mins. Vehicle Coding: YES Wiring Installation Time: 40 Mins. RPA Disable/Other YES Notes:

Total Installation Time: 160 Mins.

• Electric Brake = Brake prep connector next to the blue connector.

• RPA automatically disables when vehicle is coded

Bumper Cut Required: Yes

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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 on board 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.
- 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.

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 PURPOSES ONLY

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

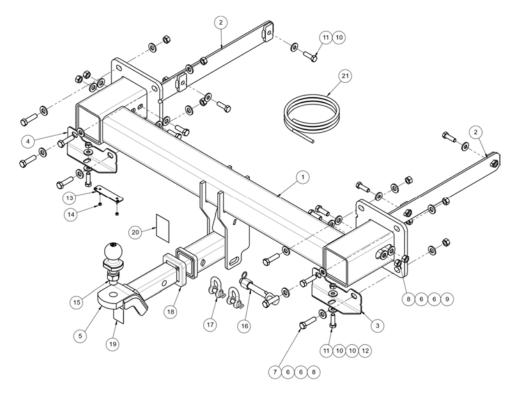
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ITEM	DESCRIPTION				
1	MERCEDES GLS X166 CL4 1				
2	CHASSIS INSERT 2				
3	RHS SUPPORT TAB				
4	LHS SUPPORT TAB	1			
5	TRAILER BALL MOUNT	1			
6	WASHER PLAIN 1/2X1-1/8X16G	24			
7	SET SCREW HEX HD M12x45x1.25P	8			
8	NUT HEX HD M12 X 1.25P G8	12			
9	SET SCREW M12 X 35 X 1.25P	4			
10	WASHER PLAIN M10 X 25 X 3	8			
11	BOLT M10-1.50 x 35 10.9	6			

ITEM	DESCRIPTION				
12	HEX NUT M10x1.5	2			
13	VE PLUG BRACKET	1			
14	NUT NYLON HEX HD M4X0.7P G8	2			
15	TOWBALL 50MM FLAT CHROME	1			
16	ANTI-RATTLE PULL PIN	1			
17	"D" SHACKLE 10mm	2			
18	HITCH BOX COLLAR COVER	1			
19	HAYMAN REESE LOGO STICKER	1			
20	ACRYLIC COMPLIANCE PLATE	1			
21	MERCEDES BENZ WIRING LOOM	1			
1	·				

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1. Release tailgate to expose boot cabin. 2. Remove the boot shade, spare tyre, associated tools and polystyrene packaging from the boot cabin. 3. Remove the scuff plate by removing the 2x torx screws located on the back side (6x plastic retainers hold it in place). Note that the bottom picture shows the scuff plate upside down adjacent to mounting location.

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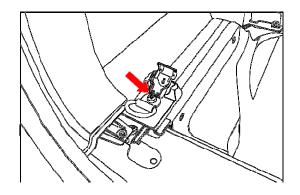
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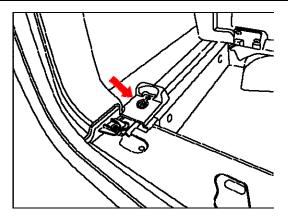
4. In the luggage compartment remove the 1x tiedown brackets on the rear side of the boot cabin. Lift plastic casing and remove 1x torx screw.

Repeat for the opposite side of the vehicle.



5. Remove the loose plastic mounting bracket located under the tie-down bracket.

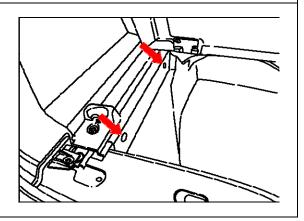
Repeat for the opposite side of the vehicle.



6. Removing the 2x scrivets holding the tyre well trim.

Repeat for the opposite side of the vehicle and then remove the trim.

Note you will need to fold the sides to allow it to be manoeuvred out of the boot cavity.



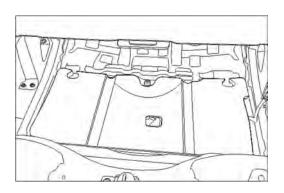
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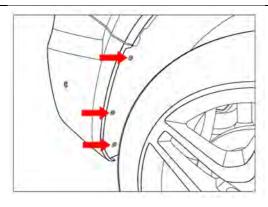
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7. Remove the loose rubber pad that is below the trim.



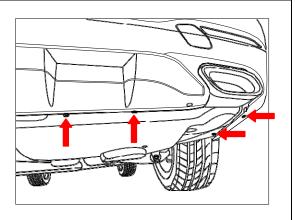
8. Remove the 3x Scrivets in the wheel arch.

Repeat for other side of the vehicle.



9. Remove the 4x Screws supporting the bumper.

Repeat for the other side of the vehicle.



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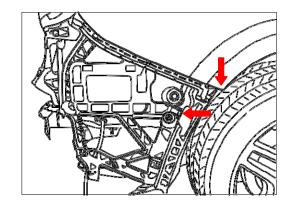
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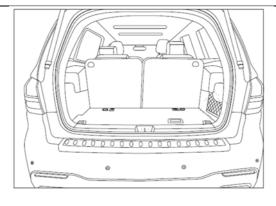
10.Remove 2x Screws from the inside of the bumper. Deflect the wheel arch trim out of the way to reveal these fasteners.

Repeat for other side of the vehicle.

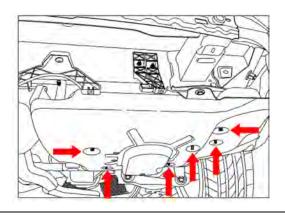
Image indicates locations with bumper removed.



11.Peel back bumper from the vehicle and disconnect the wiring harness.



12.Unscrew the 6x Plastic Nuts and remove the plastic cover for the AD Blue Tank.



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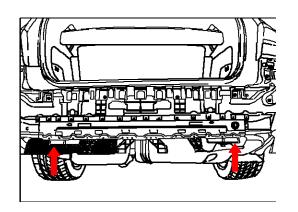
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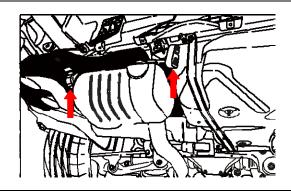
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13.Remove and dispose screws securing the adblue tank (if fitted) on the RH side and the heat shield on the LH side (temporarily support adblue tank).

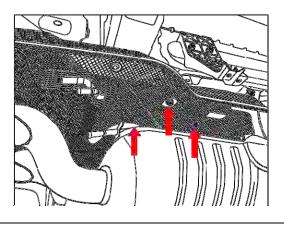


14.Remove exhaust from the hanger brackets on the passenger and driver side.

Temporarily support the exhaust.



15.Drop the heat shield by removing the 3x Nuts securing the heat shield.



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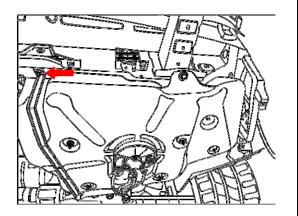


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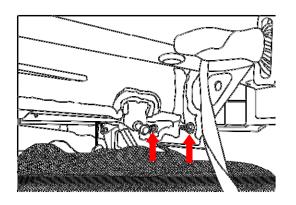
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16.Lower the Ad Blue tank by undoing the screw holding the support bracket. This will provide better access for removing the impact bar.



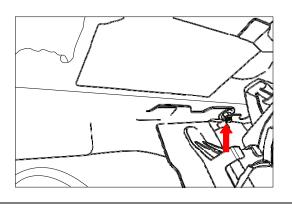
17.Remove the two nuts securing the impact beam under the car.

Repeat for the opposite side of the vehicle.



18.Remove the two nuts securing the impact beam inside the boot cabin.

Repeat for the opposite side of the vehicle and then remove and discard of the impact beam along with the rubber backing.



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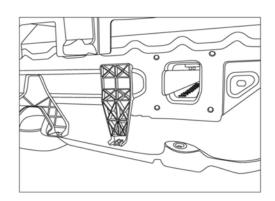
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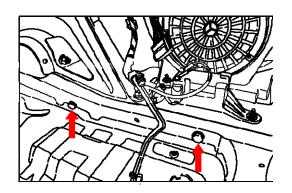
19.Insert the side arm into the chassis rail. The tapped plates must be located facing inwards of the vehicle.

Repeat for the opposite side of the vehicle.



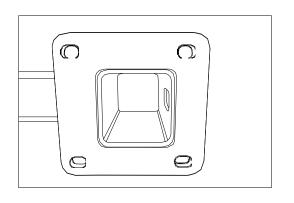
20. From inside the boot cavity, loosely secure the side arm with 2 x M10 x 1.5 x 35 bolts complete with 1 x washer per bolt.

Repeat for the opposite side of the vehicle.



21. Apply a suitable silicon (not provided) to the rear of the towbar mounting plate. This will provide a seal to prevent egress into the chassis rail.

Repeat for the opposite side of thetowbar.



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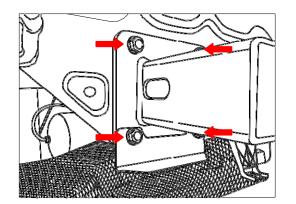
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22.Loosely secure the towbar to the rear panel along with the supporting tab using 4 x M12 x 1.25 x 45 bolts complete with 2 washers and 1 x M12 nut per bolt.

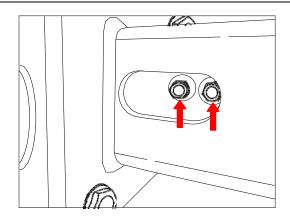
Repeat for the opposite side of the vehicle.

Note that the supporting tab for the left-hand side has an extra notch in the middle to tell them apart.



23.Loosely secure the sidearm to the towbar using 2 x M12 x 1.25 x 35 bolts complete with 2 x washers and 1 x M12 nut per bolt.

Repeat for the opposite side of the vehicle.



24.Torque all fasteners to the following specifications.

M12 x 1.25 x 45: 135 Nm (Step 22) M12 x 1.25 x 35: 135 Nm (Step 23) M10 x 1.5 x 35: 70 Nm (Step 20)

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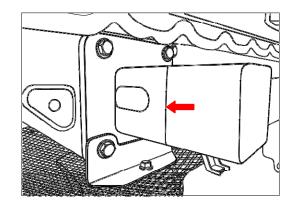
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25.Insta	ıll th	ne 3N	/I stic	ker c	over the	e slo	tted hole	in the
side	of	the	tow	bar	(wipe	the	surface	clean
prior to applying the sticker).								

Repeat for the opposite side of the tow bar.

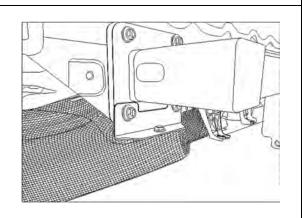


26.Reinstate the heat shield and the Ad-Blue tank by following steps 14-16 in reverse order.

27. Secure the heat shield to the support tab using the 1 x M10 x 1.5 x 35 bolts complete with 2 x washers and 2 x M10 nuts.

Repeat for the Ad Blue tank on the opposite side of the vehicle.

Torque the bolts to 35 Nm.



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PLACE THESE INSTRUCTIONS IN THE VEHICL	- O GEOVEDONAL TEN MOTALEATION TO COMM EETE
28.Identify the centreline of the bumper and create a bumper cut 90 mm wide and 85 mm deep as measured on the outside of the bumper.	Bumper centreline 85mm 90mm
29.At an appropriate position on the bumper, mark out and drill 2x ø5mm holes 69mm apart on bumper skin to support plug bracket. Feed bracket threads through drilled holes prior to reinstalling bumper.	bio b
30.Reinstall bumper following steps 1 to 13 in reverse order.	

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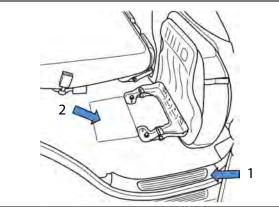
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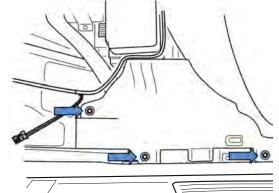
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31. Fold drivers side passenger seat forward. Remove the RHS sill trim (1), open the panel to gain access to the Power Distribution Module (PDM) (2).



- 32. Peel back the carpet to gain access to wire cover.
- 33. Remove the 3x M10 nuts and remove the wire cover.

This will give access to the Can bridge Hub

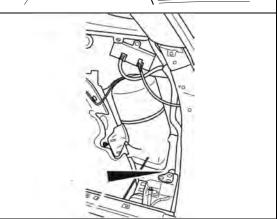


34. Using a step drill, drill a ø30mm hole where in a suitable location.

Remove any burrs or sharp edges from hole and cover exposed edges with a rust inhibitor.

From outside the vehicle feed the tail (1200mm) through the previously drilled hole, slide the grommet to required length.

secure the grommet with supplied cable tie. Ensure the grommet is seated properly.



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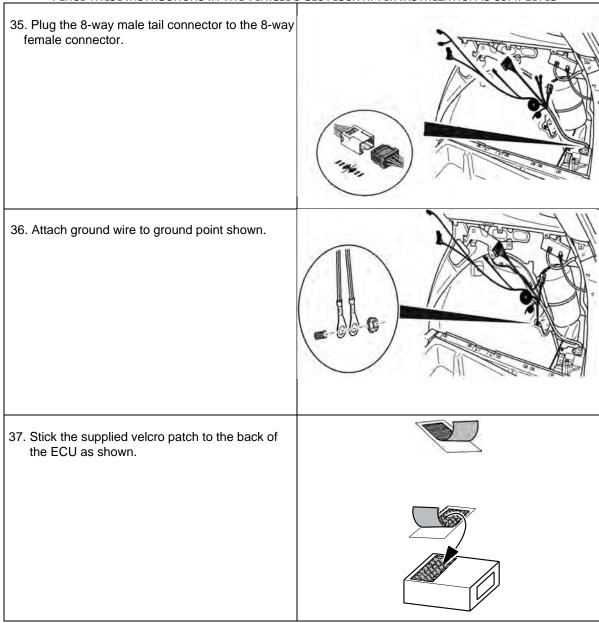
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38. Attach ECU to the side panel. 39. On the RHS taillight connector locate the green/black brake wire 40. Connect the green/black wire to the trailer patch black/red wire. 41. Run wire along wheel arch towards RHS rear seat.

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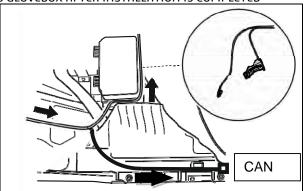
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43. Route the trailer patch orange and red/blue wire towards the PDM.

44. Route the trailer patch 2-way connector towards the CAN bridge hub.

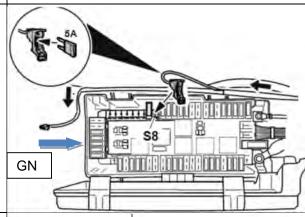
Note: The CAN bridge hub is towards the B-pillar.



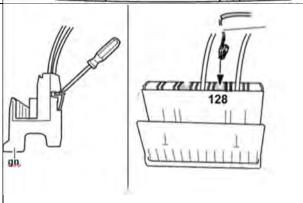
45. Locate the PDM under RHS passenger seat.

Plug the fuse adaptor into the nominated S8 location and insert the supplied 5 AMP fuse.

46.Locate the green (GN) fuse holder by releasing the side tabs remove the fuse holder.



- 47. Release the secondary lock and insert the trailer patch red/blue wire into cavity 128.
- 48 Re-engage the secondary lock and replace the fuse holder back into the PDM.



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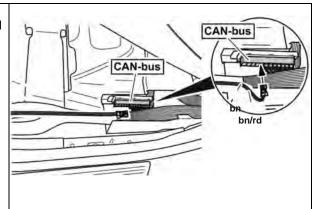


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48. Locate the previously routed trailer 2-way CAN connector and insert it into a vacant cavity into the CAN bridge hub.



- 49. Refit all removed parts.
- 50. Next step is coding of vehicle.
- 51. Pay attention to the "SmartCODE" instruction page.
- 52. Once vehicle is coded test the trailer functionality with a test board.

Ensure all lights are working and trailer warning messages for Blind Spot Assist not available and Rear Park Assist are disabled.

- Press the ok button to acknowledge.
- When the trailer is disconnected RPA & BSD will be active again once the brake pedal is pressed.
- 53. Place fitting instructions in glovebox when finished.

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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.

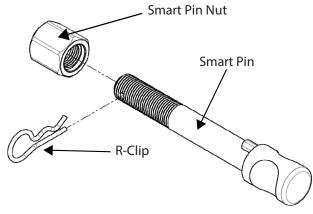
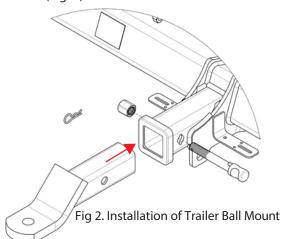
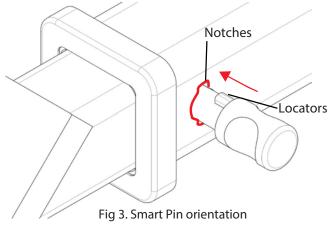


Fig 1. Smart Pin assembly

STEP 1

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





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).

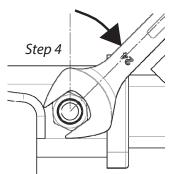


Fig 4. Tightening of Smart Pin Nut



Appendix





WARNING: This vehicle requires a system setting to ensure the trailer wiring and control module are correctly recognised. This process (referred to as 'coding') must be carried out to enable correct vehicle functionality when trailer is connected. Towing features enabled by correct control module and coding support OE functionality as set by OE manufacturer. Please read the vehicles owner's manual for proper operation and understanding.

Coding can be carried out using the Hayman Reese SmartCODE (HRSC) using the following steps. Note, if HRSC is unavailable, vehicle coding can be carried out by OE manufacturer as needed.

Before you start:

- Ensure the HRSC software is up to date using the HAYMAN REESE SMARTCODE PC APP.
- Ensure the vehicle battery is fully charged
- Use of a battery support unit (BSU) is advised during the coding process.
- Ensure towbar, wiring loom and ECU are correctly installed as per Hayman Reese fitting instructions.
- 1. Locate the OBD2 port under the drivers footwell on the right-hand side and plug in the HRSC.
- 2. Close all doors and turn the ignition on
- 3. Follow the directions on the screen of the HRSC
- 4. Once the vehicle has been coded successfully proceed to the "clear codes" tab
- 5. Remove disconnect HRSC from OBD2 port.
- 6. Check the dash to make sure there are no warning faults.
- 7. Check the operation of trailer lights and ensure the Reverse Park Assist (RPA) is disabled and 'trailer on' icon is active where available.

For technical support and further information on Hayman Reese SmartCODE tool and coding process contact your nearest Hayman Reese stockist.

Australia: 1800 812 017

New Zealand: 0800 237 886