TOWBAR
INSTALLATION INSTRUCTIONS

PART NUMBER 03598RW

MG S6 EV CL4



PRODUCT DETAILS:

Part Number:	03598RW	**Maximum Towing Braked:**	1500	kg
ECU Number:	WLE70042	**Maximum Towing Unbraked:**	750	kg
Tail Harness Length Required:	1800mm	**Maximum Static Ball Load:**	150	kg
TBM/Lug Part Number:	21412			
Wiring Part Number:	WLL90042			

FITTING DETAILS:

Towbar Installation Time:	80 Mins.	**Hayman Reese SmartCODE Solution Required:**	NO
Wiring Installation Time:	40 Mins.	**RPA Disable/Other:**	YES
Total Installation Time:	120 Mins.		
Bumper Cut Required:	Yes		

Note:

- Please refer vehicles owner's manual for proper operation and understanding of towing features.
- "Tow Mode" must be enabled via Infotainment.

WARNING

Electrical vehicles include a high voltage battery, which can lead to property damage and personal injury if handled incorrectly.
DO NOT unplug any orange high voltage cables unless the vehicles have been properly isolated by a high voltage trained technician. Series injury or death many occur.

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Phone: 1800 812 017
Email: info@haymanreese.com.au

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ENSURE THAT INSTRUCTIONS ARE UNDERSTOOD PRIOR TO FITMENT.

BEFORE YOU START:

Hayman Reese recommends that instructions are read completely prior to fitment.
Check all hardware items have been included refer to assembly diagram.
Please ensure this towbar is only fitted to vehicle models as per Hayman Reese application guide

(www.haymanreese.com.au).

CORRECT

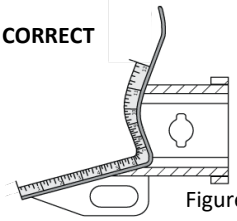


Figure 1

INCORRECT

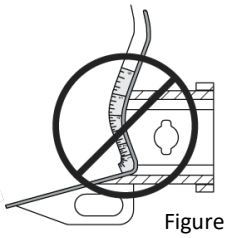


Figure 2

Bumper Cuts

Vehicle and bumper variations can and do occur during vehicle manufacture after initial towbar design. Fitment of towbar to vehicle and accuracy of bumper cut must be assessed prior to any bumper modifications made. Incorrect bumper cuts are not covered under Hayman Reese warranty.

NOTE: Bumper cuts need to be approached with care, refer to notes below.

- Bumper centreline – where the centreline of the bumper needs to be determined, the installer must assess centre point by measurement of bumper width or determining two symmetrical reference points to give centreline.
- Bumper edge – To assist with accurate bumper cut measurement, reference to the start of the bumper edge is now being commonly used.
    - Measure from bottom edge along bumper and around corner to the 70 mm point (Figure 1).
    - Do not measure from visible bumper front of corner, upwards (Figure 2).

Drilling

- For any required drilling during installation, ensure that the area is clear of fuel, electrical & other components that may be damaged.
- All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.

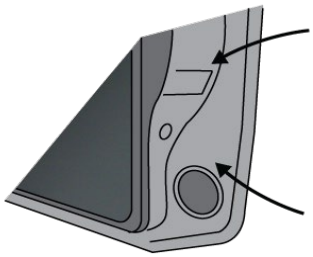
Bolts/Fasteners

- Ensure that all hardware is fastened to correct torque as specified in this fitting instruction.
- All fasteners supplied with this product are used to achieve a specified clamp loading. If replacement is required ensure that fasteners of the same thread pitch and grade class are used.

NOTE: Achieving correct torque is critical to proper installation and responsibility of the installer. Towbar failures attributed to tension issues from over tightening or under tightening are not covered by Hayman Reese warranty.

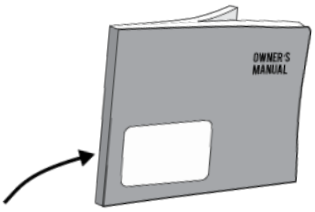
Product Labels

a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.
b. Powertrain Control Module (PCM)/Body Control Module (BCM) upgrade warning label will be provided in towbar kit for vehicles as required. Affix warning label in door and owner's handbook.



Place **Load Rating sticker** inside driver's door here

Place V**ehicle PCM/ BCM upgrade warning label** in door AND on front cover of owner's service handbook



WARNING:

Do not, drill, cut, weld or otherwise modify the towbar.
FOR TOWING PURPOSES ONLY - This towbar is designed and tested by Hayman Reese to adhere to ADR 62/02 which provides only for the expected load demands of towing.

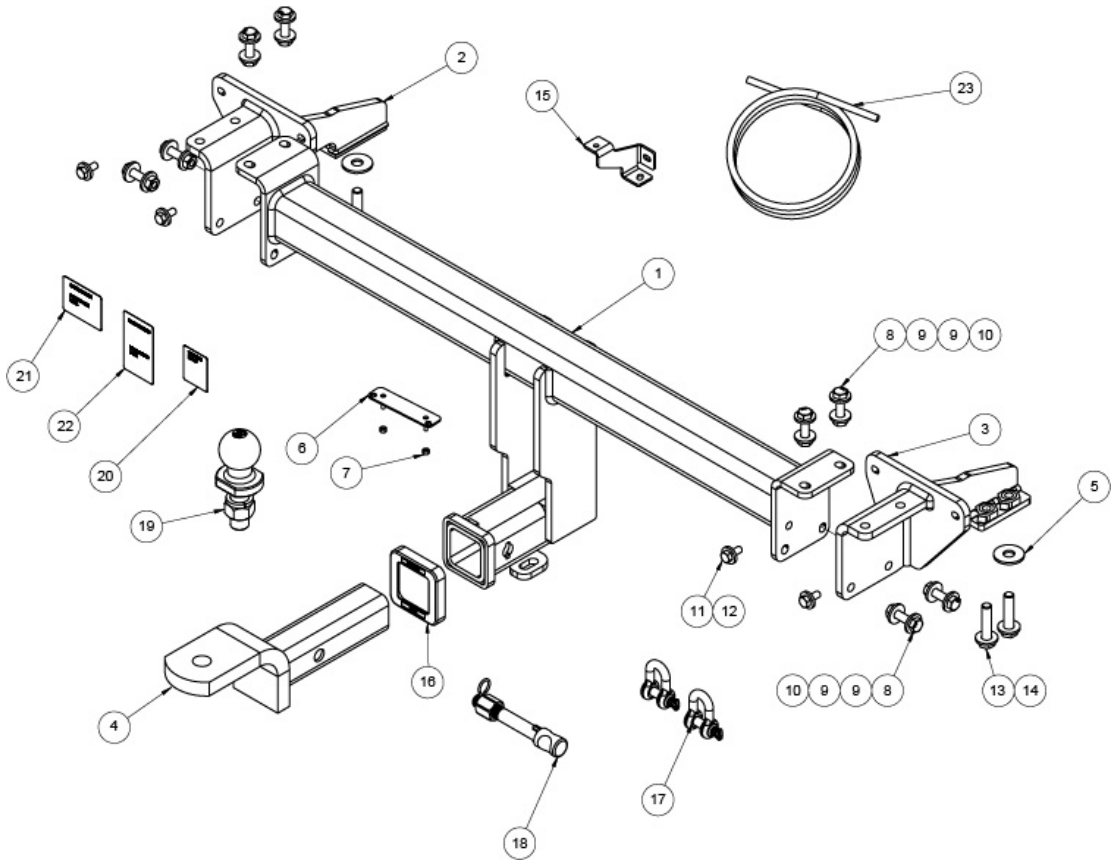
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TOWBAR
INSTALLATION INSTRUCTIONS

PART NUMBER 03598RW

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TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	MG SAIC S5 WELDED ASSEMBLY	1
2	SIDE ARM LHS	1
3	SIDE ARM RHS	1
4	TRAILER BALL MOUNT	1
5	WASHER PLAIN M14x37x3.0mm	2
6	PLUG BRACKET	1
7	NUT NYLOC HEX HD M4x0.7P G8	2
8	SCREW HEX HD M10x40x1.25P G8.8	8
9	WASHER PLAIN M10x25x3.0mm	16
10	NUT HEX HD M10x1.25P G8	8
11	SCREW HEX HD M8x20x1.25P G8.8	4
12	WASHER PLAIN M8x22x3.0mm	4

ITEM	DESCRIPTION	QTY
13	BOLT HEX HD M12x50x1.75P G10.9	4
14	WASHER PLAIN M12x27x3.0mm	4
15	WIRING BRACEKT	1
16	HITCH BOX COLLAR COVER	1
17	D-SHACKLE 10mm	2
18	SMART PIN GOLD	1
19	TOWBALL 50mm	1
20	HAYMAN REESE LOGO STICKER	1
21	COMPLIANCE LABEL	1
22	LOAD RATING LABEL	1
23	WIRING LOOM	1

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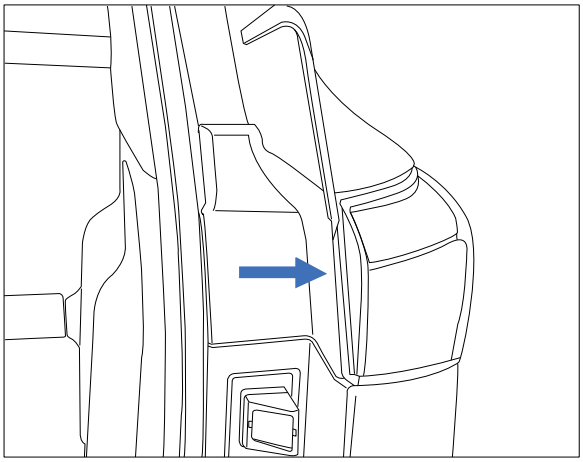
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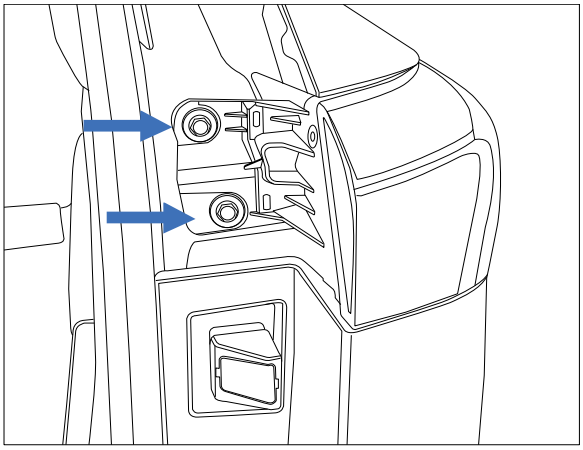
MG S6 EV CL4

1. Open vehicle tailgate.
   Disconnect battery terminals before commencing any electrical work.
2. Lift the tailgate. Unclip the taillight side cover to access the screws.

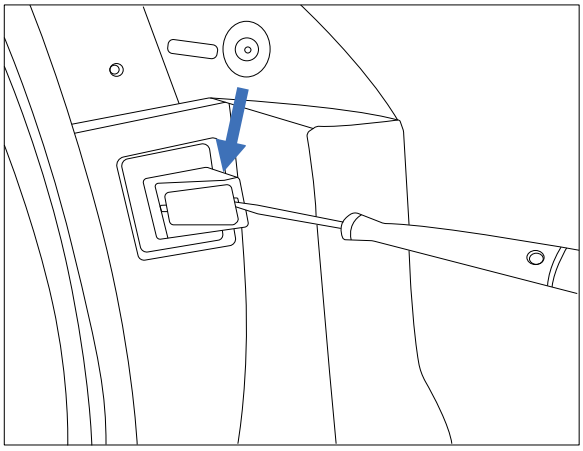
   Repeat for the other side.



3. Remove and retain 2x screws.
   Carefully pull the taillight rear ward of the vehicle to remove it.
   Disconnect the taillight wiring and keep it in a safe area.
   Repeat for the other side.

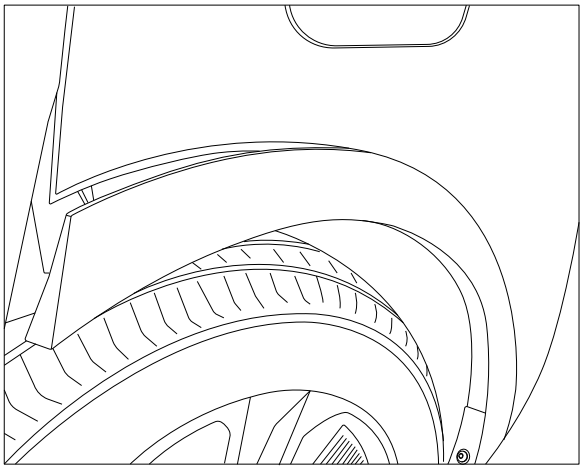


4. Remove and retain bump stop cover to gain access the screw.
   Remove and retain the 1x screw and bump stop.
   Repeat for the other side.

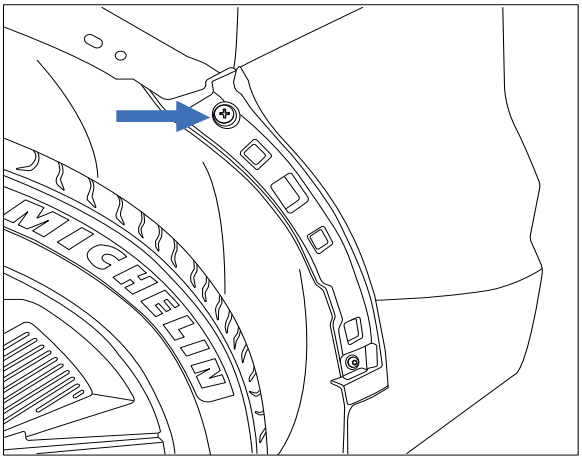


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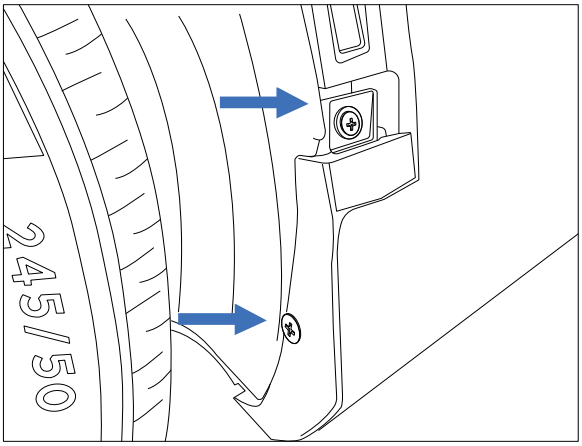
5. Unclip and retain the wheel arch flare.
   Repeat for the other side.



6. Remove and retain 1x screws.
   Repeat for the other side.

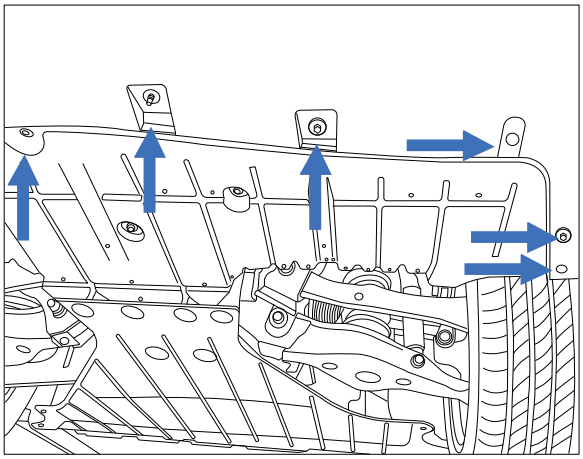


7. Remove and retain 2x screw on the mud guard.
   Repeat for the other side.

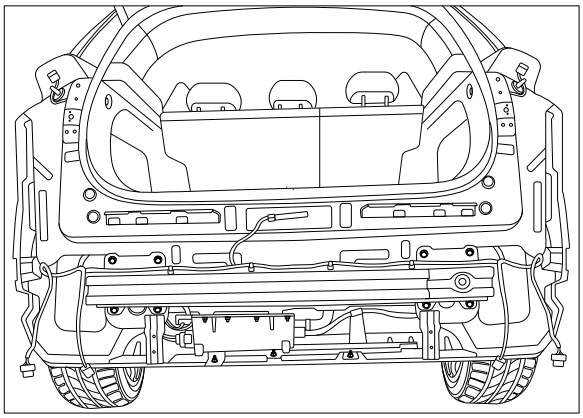


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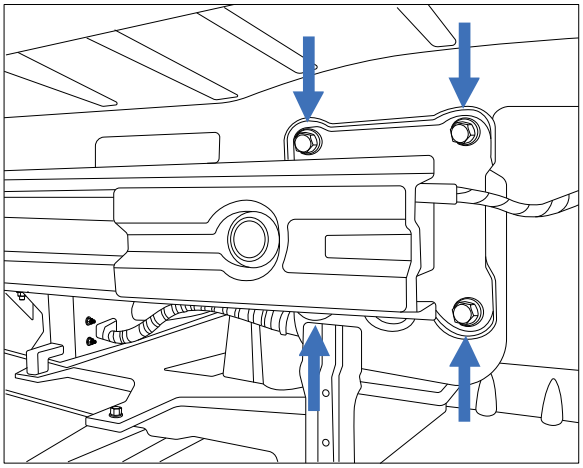
8. Remove and retain 6x screw under the bumper.
   Repeat for the other side.



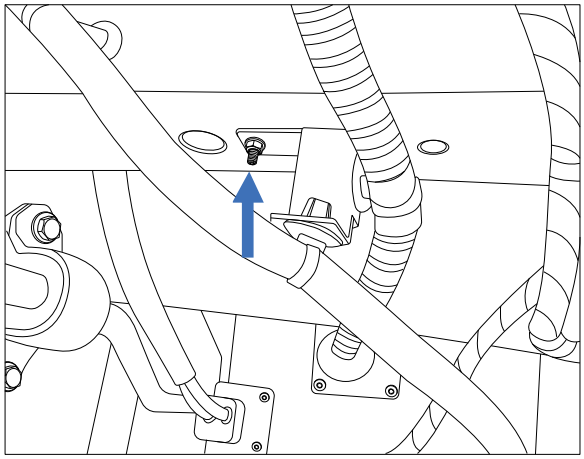
9. Carefully unclip and disconnect the bumper harness.
   Remove the bumper from the vehicle.



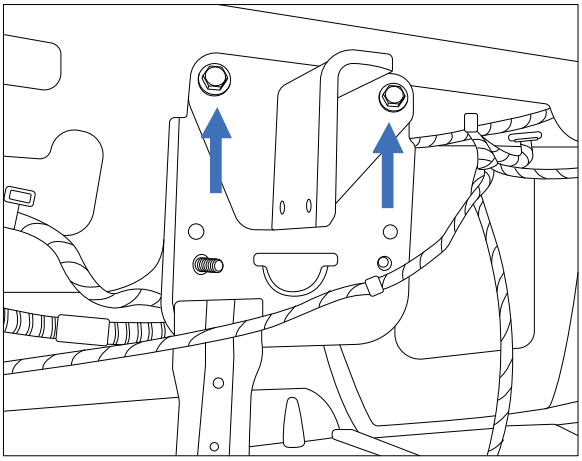
10. Remove the cable clips from the impact beam.
    Remove and discard 4x bolts.
    Repeat for the other side.
    Remove and discard the impact beam.



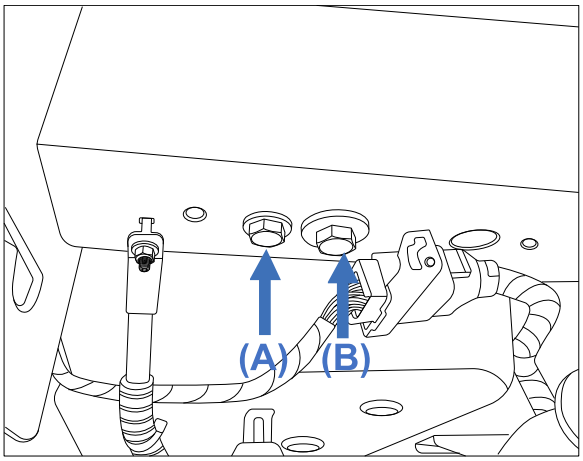
11. On the passenger side.
    Unclip the cable ties from the bracket.
    Remove and retain the nut.
    Discard the bracket.



12. Insert the side arm into the chassis and loosely secure with 2x M8 screws and 2x washers.
    Repeat for the other side.

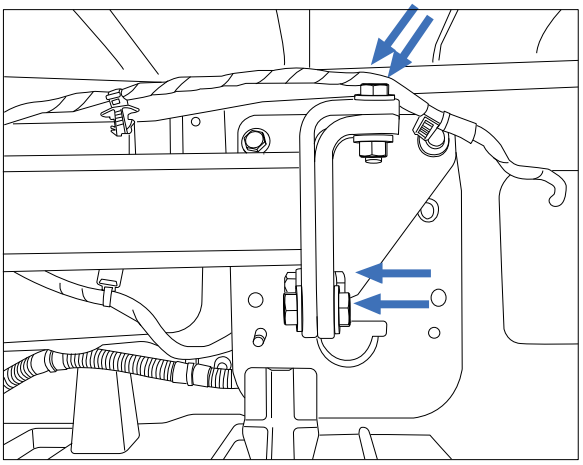


13. Loosely secure 1x M12 screw and 1x M12 washer. Ref to **(A)**.
    Loosely secure 1x M12 screw, 1x M12 washer and 1x Ø38mm spacer. Ref to **(B)**.
    Repeat for the other side.

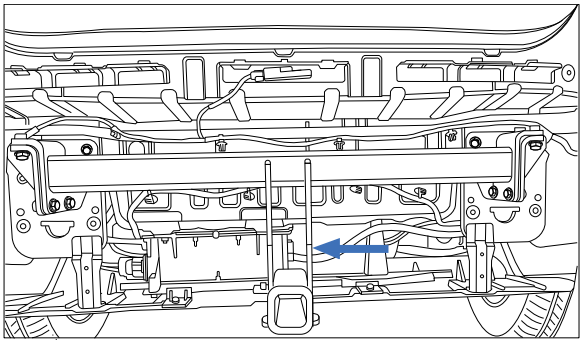


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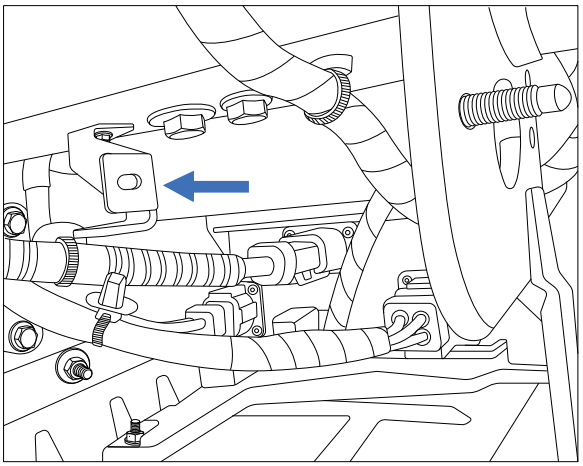
14. Fit the bar between the side arms and secure it with 4x M10 bolts, 8x washers and 4x M10 nuts. Repeat for the other side.



15. Torque fasteners as below:
    M12 x 1.75P x 10.9 - 108 Nm
    M10 x 1.25P x 8.8 - 48 Nm
    M8 x 1.25P x 8 .8 - 22 Nm
    Place a compliance label in RHS dropper.

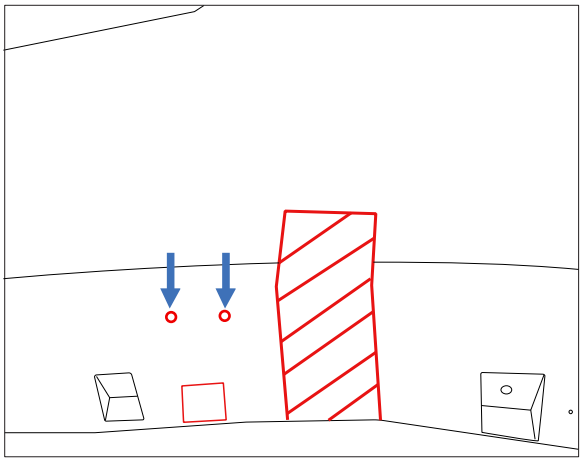


16. Fit the supplied bracket and secure it with the retained nut in **STEP 10.**
    Clip the cable ties to the bracket.



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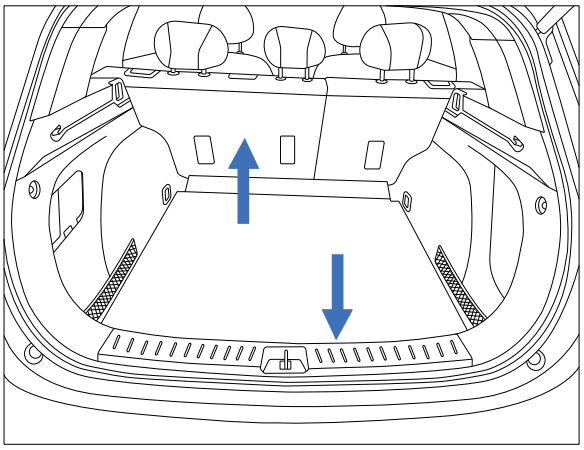
17. Use the bumper cut out template (Appendix).
    Mark and cut out an area 200mm x 90mm to clear the hitch box.
    Mark and drill 2x 5mm holes and 68.5mm apart.
    Mark and cut out an area 30mm x 30mm to clear the trailer plug wiring.
    Aligning and place the holes to the plug bracket studs.



IMPORTANT

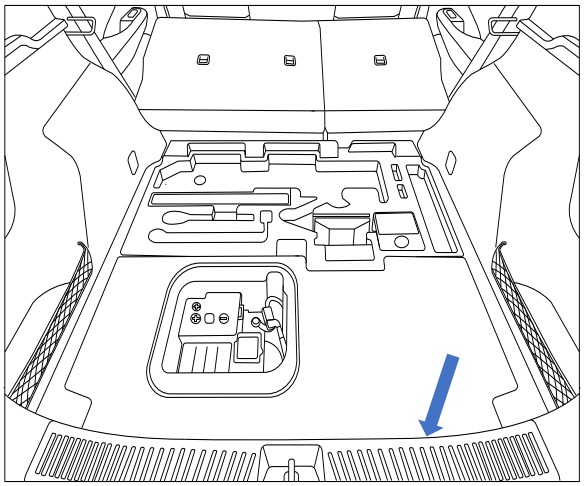
Due to possible vehicle variations, always confirm any noted vehicle colour wires with a multi-meter to ensure the correct function is identified before soldering or scotch locking. For vehicle wires denoted with two colours (example; RED/GREEN) the first colour will always be the main wire colour while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

18. Take out the rear floor carpet. Fold the LHS seat down.

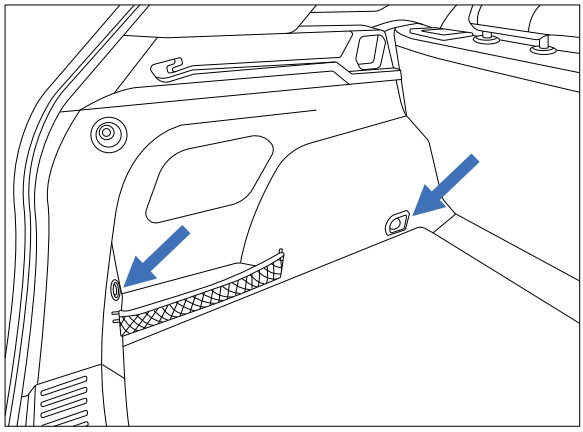


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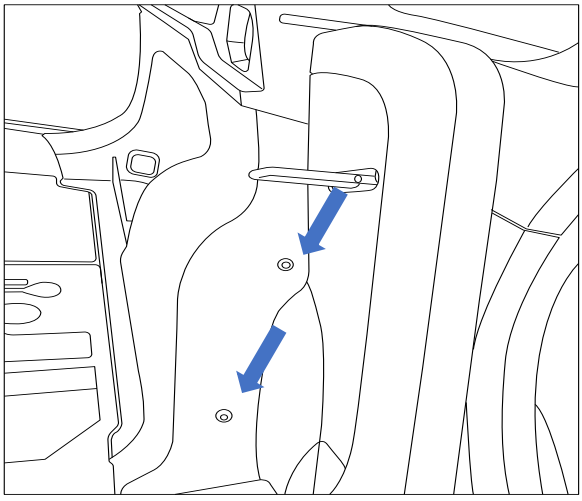
19. Using a trim removal tool, remove the rear scuff trim from the vehicle.



20. Remove the rear cargo tie down points. Take the cover off and unscrew bolts with a Torx bit.

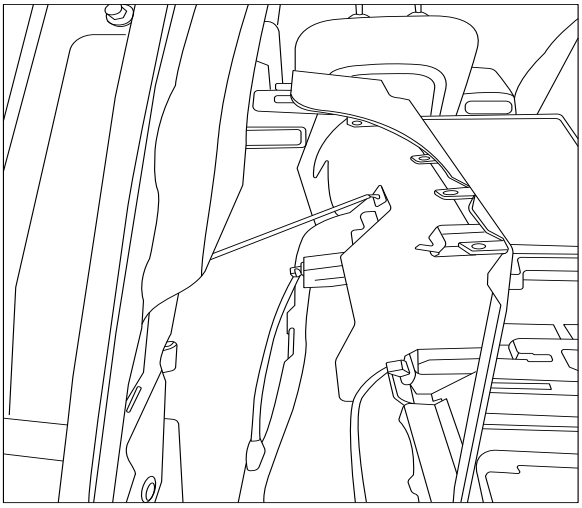


21. Remove the two scrivet on the LHS rear trim using a trim tool.

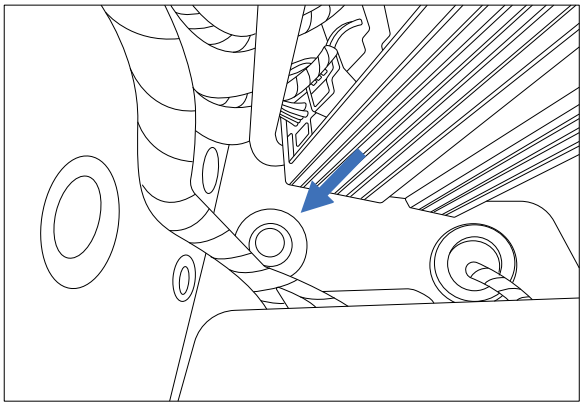


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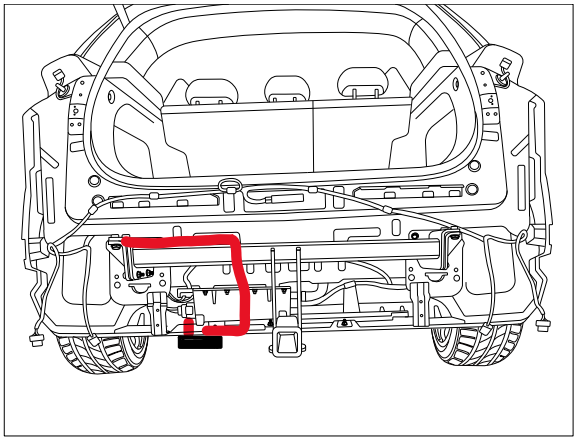
22. Use the trim tool to dislodge the rear LHS upper cargo trim and the seat mount to remove the rear LHS lower cargo trim.



23. Locate the Blanking Grommet. Discard the grommet cover and drill this hole to exactly ø30mm.
    Note: Spray Rust Inhibitor on the edges of this hole and clean any sharp edges.

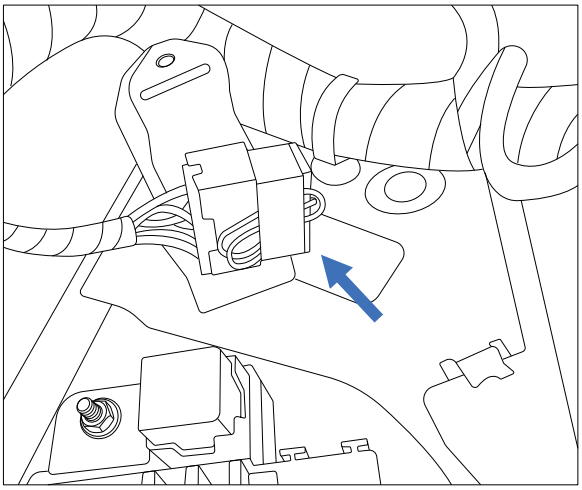


24. Feed the tail harness blue connector through the hole, ensuring enough slack for the trailer socket to be mounted to the towbar.
25. Slide the grommet to the desired location and secure to the loom with a cable tie (not supplied).

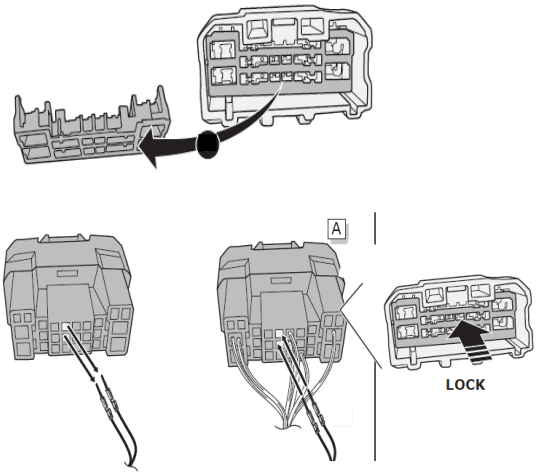


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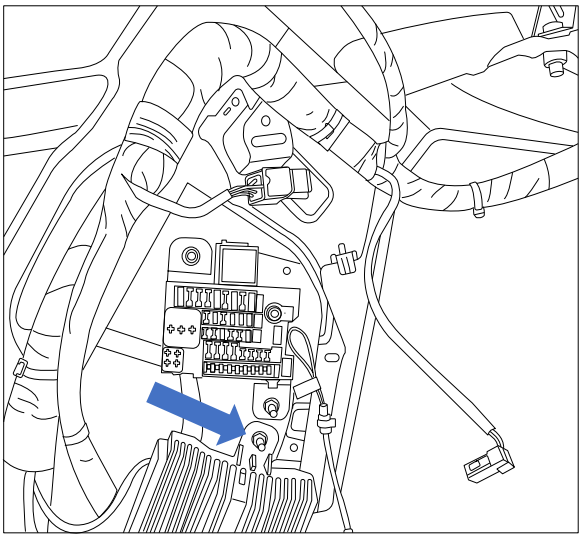
26. On the LHS D Pillar Sheetmetal, locate the 26-way prewire connector.
    Disconnect from the blanking connector.



27. Unhouse the green wire from the connector by firstly removing the secondary lock.
28. With jeweller's screwdriver release the locking tab to remove the male terminal.
29. On the trailer patch release the secondary lock and insert the wires in the same cavity.
30. Click the secondary lock into place
    Note: This step must be done as this circuit is rear fog on the vehicle.

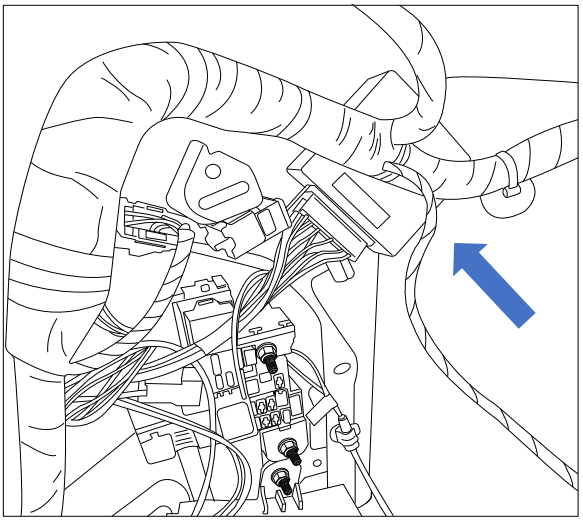


31. Locate the trailer patch ground ring terminal. Secure this to the vehicle ground point.

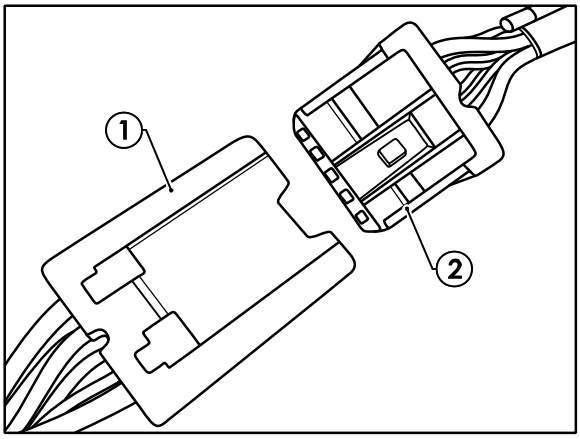


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32. Connect the ECU and secure in the location shown.
    Use the adhesive double-sided tape provided and apply pressure to allow for good adhesion.



33. Plug in the trailer patch blue connector into the mating tail harness connector.
    Route the rest of the patch harness along the vehicle loom and secure with cable ties where necessary (not supplied).



34. Re-assemble all the removed parts, from Step 1 to Step 8, in the reverse order of removal.
    Fit each D shackle in each dropper slot.
    Insert the TBM to hitch box.
    Aligning the hole in TBM shank with the hole in the hitch box.
    Insert the pull Pin through hole in hitch box and hole in TBM shank.
35. Reconnect the battery and test the trailer harness function using a trailer test board.
    Place the fitting instructions in the glove box once completed.

CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE
VEHICLE'S GLOVEBOX AFTER INSTALLATION

THANK YOU FOR PURCHASING HAYMAN REESE.
WITH CORRECT MAINTENANCE AND CARE THIS PRODUCT WILL PROVIDE A LIFETIME OF TROUBLE-FREE OPERATION.

TOWBAR MAINTENANCE AND CARE:

1. Hayman Reese recommend that the towbar LUG or TBM (tow ball Mount) Pull Pin and R-clip are removed and stored when not in use. Removal of LUG or TBM (tow ball mount) is advisable when not in use to assist with any of the following.
    - Ensure rear number plate is not obscured.
    - Allow maximum available departure angle and prevent any potential interference.
    - Prevent possible interference with vehicles reverse sensors or camera detecting a tow ball mount as an obstruction during reversing.
    - Removes towball mount as an obstruction for when moving around the rear of the vehicle.
2. Hayman Reese recommends routine inspection of your towbar to ensure trouble free towing.
    - Bolt security and tension should be regularly inspected and checked for correct tension. Replace any worn or defective parts with suitable grade & class fasteners. Inspection should be requested to coincide with vehicle major services.
3. It is the owner's responsibility to ensure towing and down ball weight capacities of the towing vehicle are not exceeded.
    - Towing and down ball weights allowable may differ according to model variations. Please refer to owner's manual or vehicle dealer to confirm exact rating for your vehicle model variant.
    - It is not uncommon for the vehicle tow rating to differ from the towbar rating. When this occurs, the lesser rating must be adhered to.
    - For vehicles fitted with enhanced vehicle functions that may be altered/changed when towing i.e Trailer sway mitigation, blind spot detection, adaptive cruise control etc. Please consult owner's manual to understand changes enabled when towing and after towing.

WARRANTY INFORMATION:

Hayman Reese Towbars are covered by a Lifetime Warranty.
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
For further details please visit www.haymanreese.com.au/warranty or contact customer service on 1800 812 017 or info@haymanreese.com.au.

CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE
VEHICLE'S GLOVEBOX AFTER INSTALLATION

HAYMAN REESE SMART PIN

Your Hayman Reese towbar is equipped with Smart Pin technology to help reduce towbar tongue rattle in most driving conditions. Please ensure below instructions are understood and routine maintenance is carried out to ensure best towing experience.

Regularly inspect for wear and check the tightness of the Smart Pin Nut. Follow instructions below to re-tighten the nut as necessary when movement and noise in the tow ball mount is noted.

- Before towing, ensure R-Clip is properly installed and Smart pin nut is installed and tensioned. Replacement parts are available from your Hayman Reese Distributor.

TOWBALL MOUNT REMOVAL/INSTALLATION

STEP 1

Insert Trailer Ball Mount (TBM) (a) into towbar hitchbox (b), aligning hole in TBM shank (c) with hole in hitchbox (d) (Fig. 1)

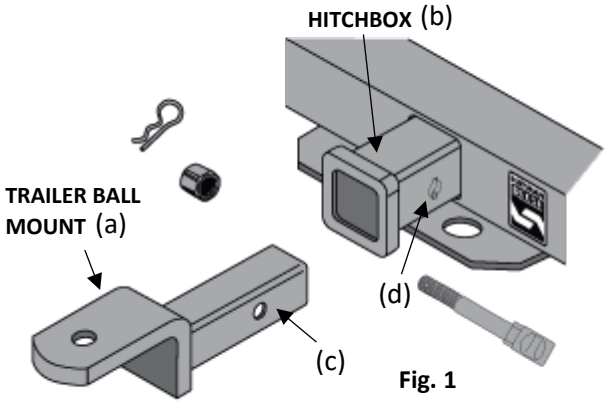


Fig. 1

STEP 2

Insert Smart Pin (e) through hole in hitchbox and hole in TBM shank (g); ensure the locators are inserted into the notches in the hitchbox (Fig. 2)

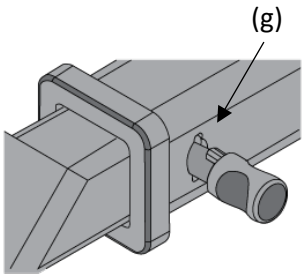


Fig. 2

STEP 3

Screw Smart Pin Nut (f) onto Smart Pin (g); tighten Smart Pin Nut until finger tight, ensuring TBM is restrained from up and down movement.

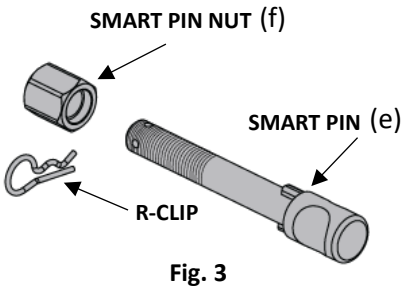
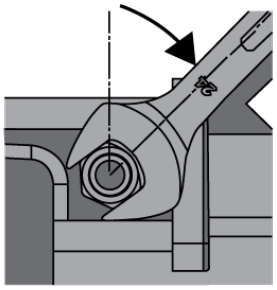


Fig. 3

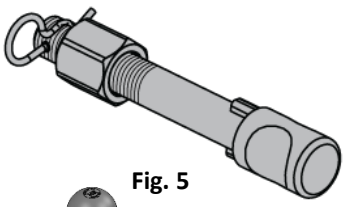
STEP 4

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


Fig. 4

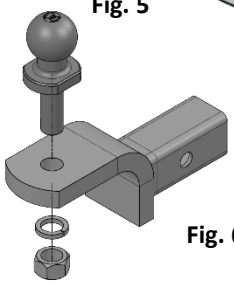
STEP 5

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


Fig. 5

STEP 6

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


Fig. 6

49-75 Pacific Drive Keysborough, VIC 3173
Phone: 1800 812 017
Email: info@haymanreese.com.au

APPENDIX

BUMPER CUT OUT TEMPLATE

NOTE: PRINT 1:1 SCALE

