TOWBAR
INSTALLATION INSTRUCTIONS

PART NUMBER 03623RW

SPORTAGE NQ5 TOWBAR ASSEMBLY



PRODUCT DETAILS:

Part Number:	03623RW	**Maximum Towing Braked:**	1900	kg
ECU Number:	WLE70034	**Maximum Towing Unbraked:**	750	kg
Tail Harness Length Required:	1200mm	**Maximum Static Ball Load:**	75	kg
TBM/Lug Part Number:	21126			
Wiring Part Number:	WLL90033			

FITTING DETAILS:

Towbar Installation Time:	80 MINS	**Hayman Reese SmartCODE Solution Required:**	NO
Wiring Installation Time:	30 MINS	**RPA Disable/Other:**	YES
Total Installation Time:	110 MINS		
Bumper Cut Required:	YES		

Note:

- Please refer vehicles owner's manual for proper operation and understanding of towing features.

49-75 Pacific Drive Keysborough, VIC 3173
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

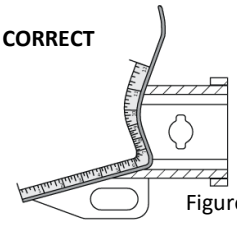


Figure 1

INCORRECT

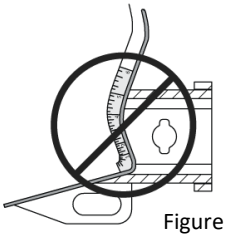


Figure 2

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.

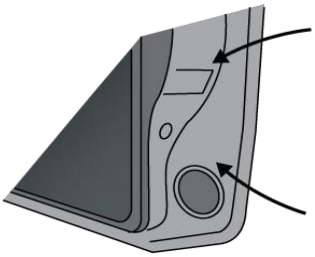
Bolts/Fasteners

- 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.

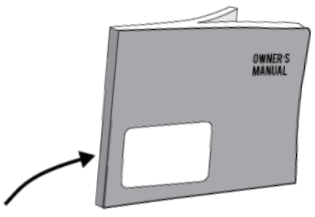
NOTE: Achieving correct torque is critical to proper installation and responsibility of the installer. Towbar failures attributed to tension issues from over tightening or under tightening are not covered by Hayman Reese warranty.

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.

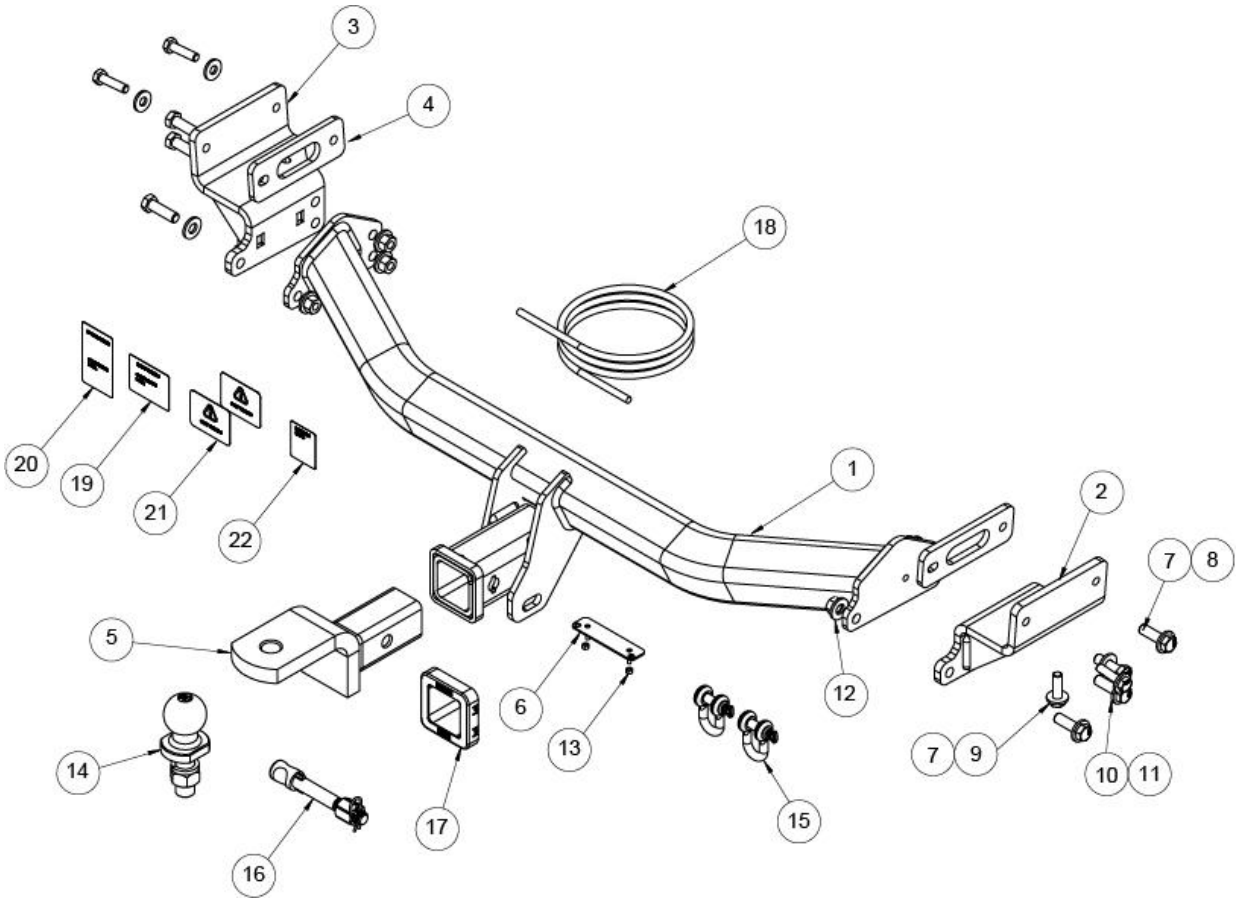
49-75 Pacific Drive Keysborough, VIC 3173
Phone: 1800 812 017
Email: info@haymanreese.com.au

TOWBAR
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PART NUMBER 03623RW

SPORTAGE NQ5 TOWBAR ASSEMBLY

TOWBAR ASSEMBLY DIAGRAM



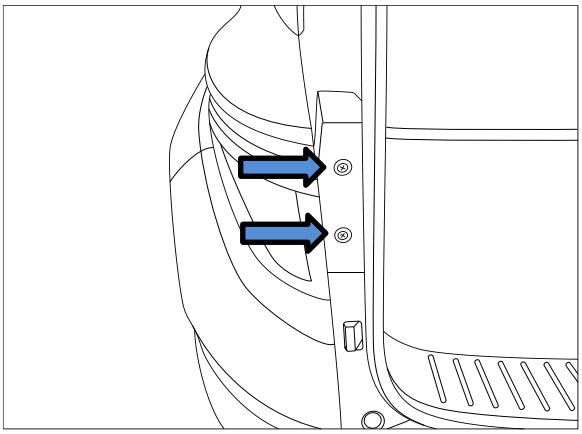
ITEM	DESCRIPTION	QTY
1	KIA SPORTAGE WELDED ASSEMBLY	1
2	SIDE PLATE MOUNT RH	1
3	SIDE PLATE MOUNT LH	1
4	SIDE PLATE SPACER	2
5	TRAILER BALL MOUNT	1
6	PLUG BRACKET	1
7	WASHER PLAIN M10x25x3.0mm	6
8	BOLT HEX HD M10x40x1.25P G10.9	4
9	SCREW HEX HD M10x35x1.25P G10.9	2
10	SCREW HEX HD M12x40x1.75P G10.9	6
11	WASHER PLAIN M12x27x3.0mm	12

ITEM	DESCRIPTION	QTY
12	NUT HEX HD M12x1.75P G10	6
13	NUT NYLOC HEX HD M4x0.7P G8	2
14	TOWBALL 50MM FLAT CHROME 3500KG HR	1
15	"D" SHACKLE 10mm	2
16	SMART PIN GOLD	1
17	HITCH BOX COLLAR COVER	1
18	WIRING LOOM	1
19	COMPLIANCE LABEL	1
20	LOAD RATING LABEL	1
21	CAN MODULE WARNING LABEL	2
22	HAYMAN REESE LOGO STICKER	1

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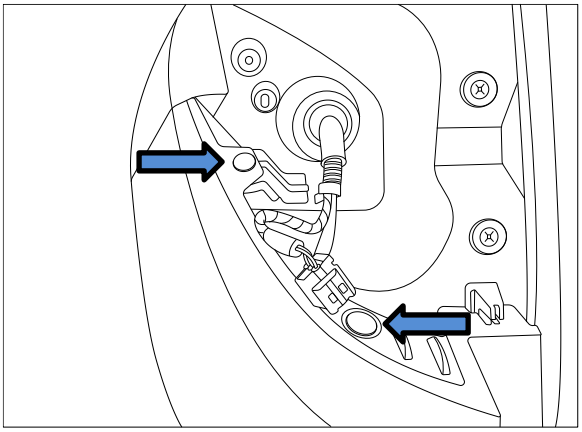
1. Remove 2x screws holding LHS taillight and disconnect taillights from vehicle.

   Repeat for RHS.



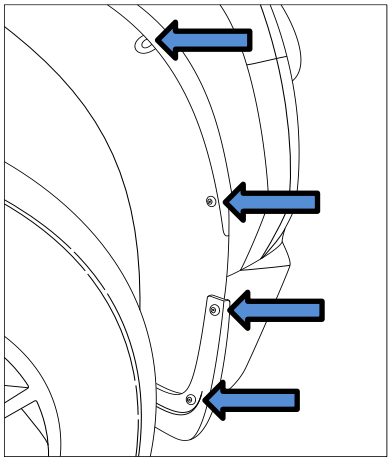
2. On the LHS Remove 2x scrivets on the bumper where the taillight was housed.

   Repeat for RHS.

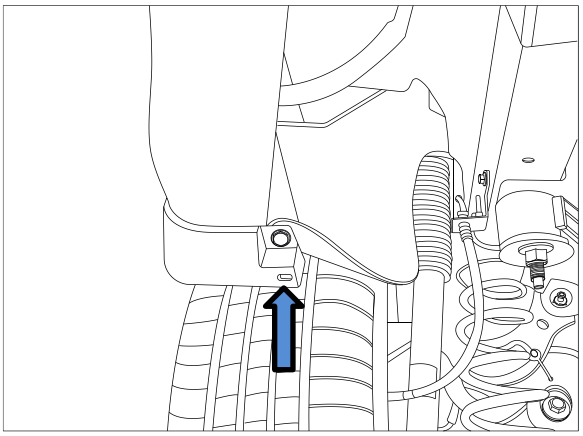


3. On the LHS remove 3x screws and 1x plastic nut holding the splashguard and liner to the bumper.

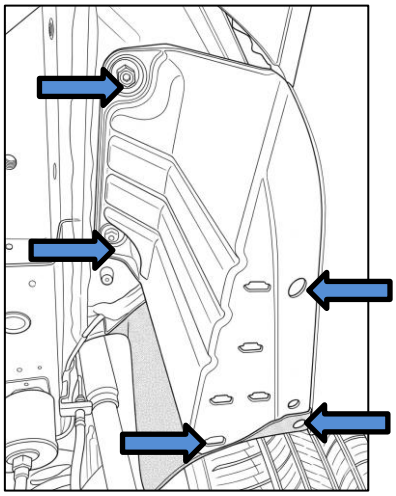
   Repeat for RHS.



4. On LHS only, remove 1x scrivet from the bottom of the splashguard.

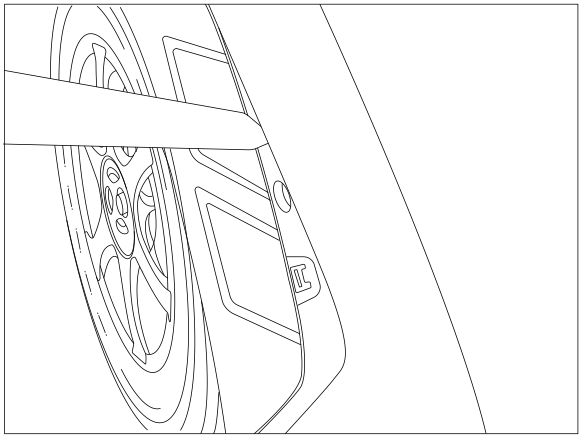


5. On RHS only, remove 3x scrivets from the bottom of the splashguard, and 2x plastic nuts at the top.



6. Apply Masking Tape around the LHS wheel arch trim and unclip the wheel arch trims (a trim removal tool will be useful here).

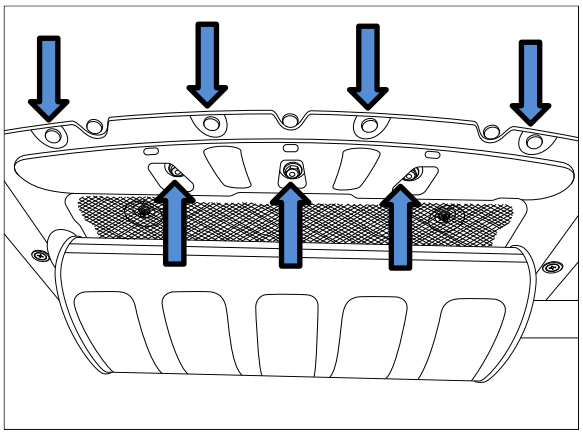
   Repeat for RHS.



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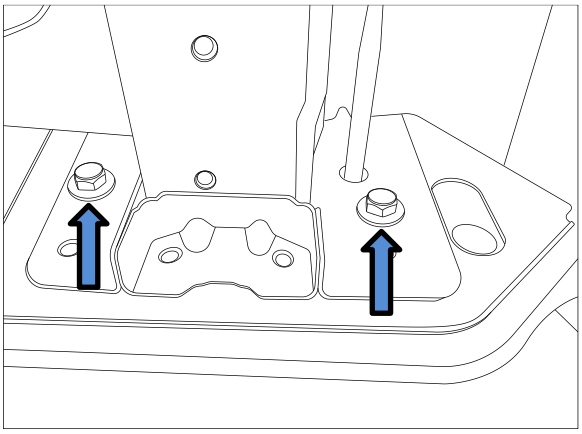
7. Remove 4x scrivets and 3x plastic nuts holding the bumper tray and remove tray.

   Discard the tray.



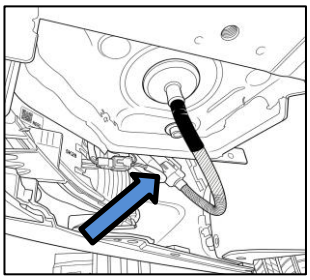
8. On the LHS behind the bumper, remove 2x 12mm bolts securing the impact beam to the vehicle.

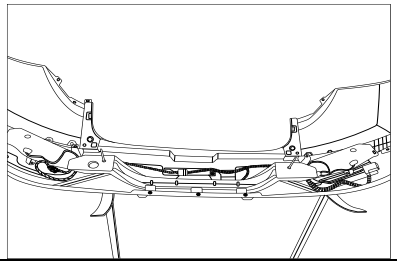
   Repeat for RHS.



9. Carefully remove the bumper from the vehicle, disconnect any wiring connecting the bumper to the vehicle.

   Place on a bumper stand.

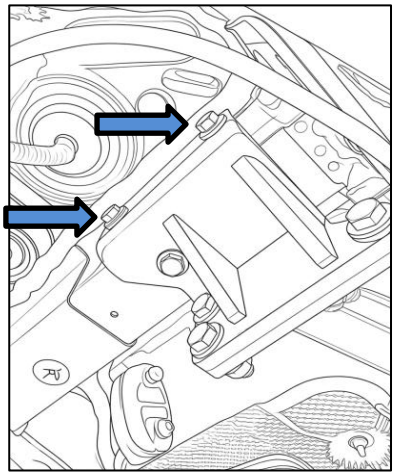




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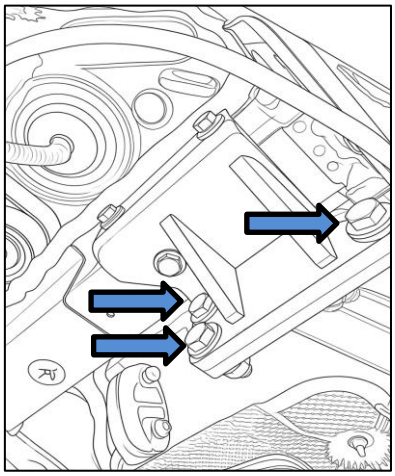
10. Using 2x M10x45mm Set Screws and 2x M10 Plain Washers per side, loosely attach the side mounts to the outside of the vehicle chassis.

    Repeat for RHS



11. (Note: a minimum of 2 people is required to lift the towbar onto the vehicle.)

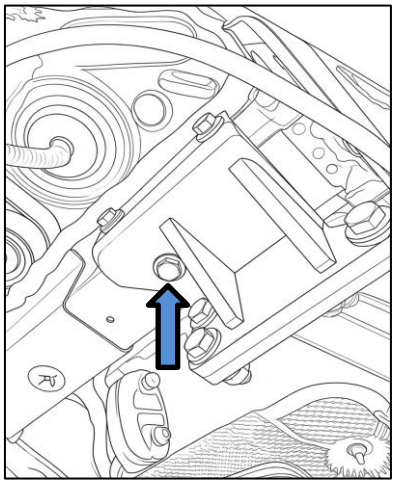
    Using 3x M12x40 Bolts, 6x M10 Plain Washers and 3x M12 Nuts per side, loosely attach the towbar to the side mounts.



12. Using 1x M10x40mm Bolt and 1x M10 Plain Washers per side attach the towbar to the bottom of the chassis rail.

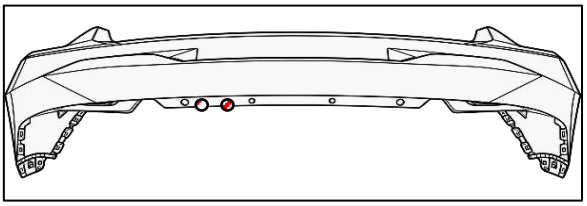
    Repeat for LHS.

    Torque all M10 Fasteners to 68Nm.
    Torque all M12 Fasteners to 109Nm.



13. Drill 2x ø5mm holes 69mm apart on the left side of the bumper cut for the plug bracket. Remove all swarf and rough edges.

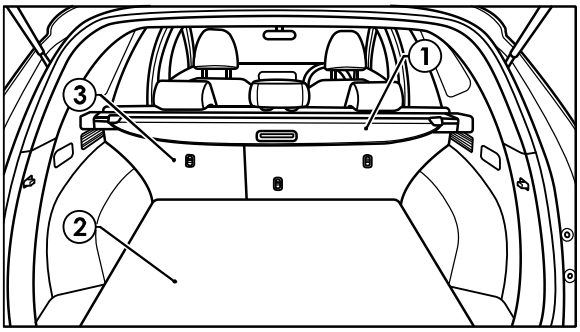
    Locate the plug bracket and ensure the harness cable length is long enough.



14. In the luggage compartment, remove the rear sunshade (1).

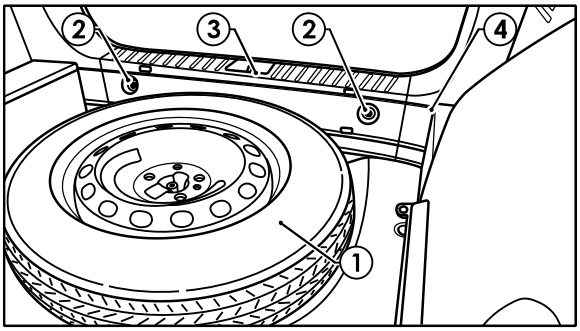
    Remove the floor carpet (2).

    Fold down the LHS rear seat (3).

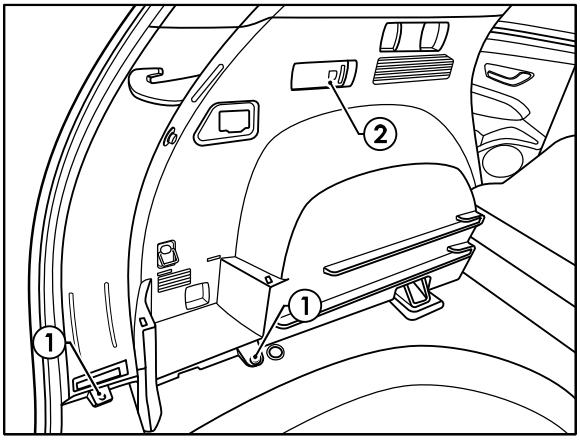


15. Remove the spare wheel (1).

    Remove the rear scuff trim (3) by removing the two scrivets (2).

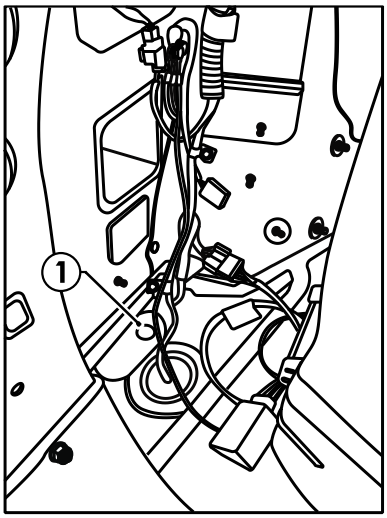


16. Remove the two lower fasteners and the screw behind the seat release to dislodge the rear LHS lower cargo trim.



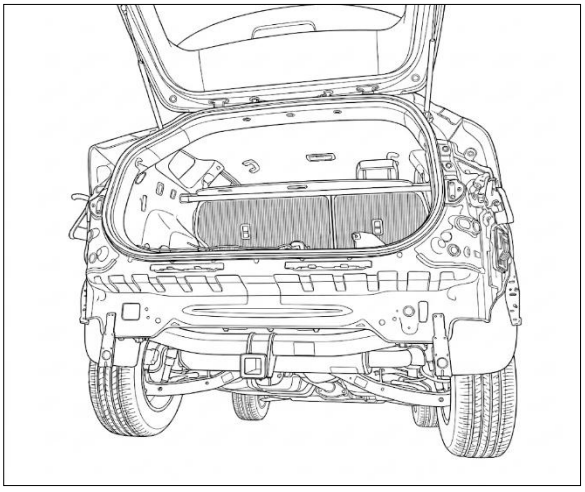
17. Remove the blanking grommet on the rear LHS floor sheet metal and discard. Using a step drill, drill this hole out to ⌀30mm.

    Note: Spray rust inhibitor on the hole and clean up any sharp edges.

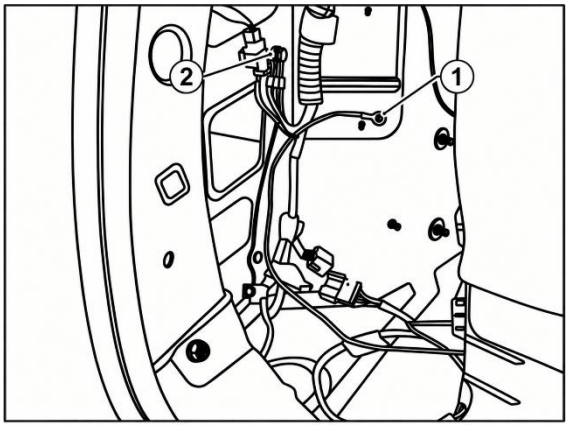


18. Feed the tail harness blue connector through the grommet, ensuring enough slack for the trailer socket to be mounted to the towbar.

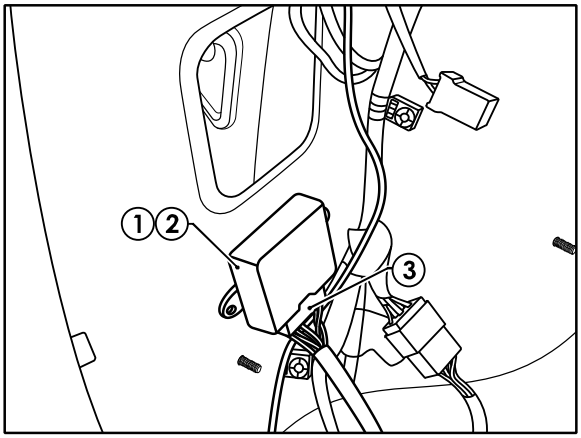
    Slide the grommet to the desired location and secure with a cable tie (not supplied).



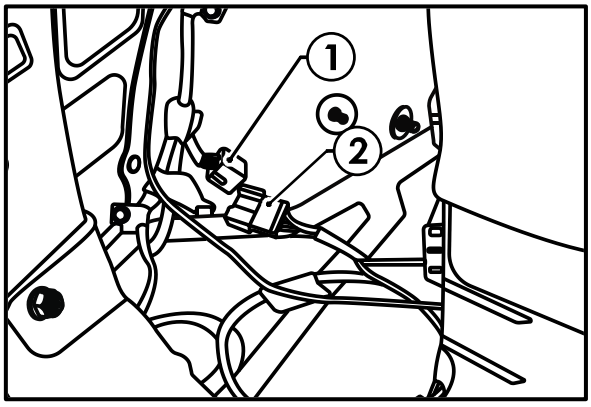
19. Locate the trailer patch ground ring terminal (1) and connect this to the vehicle ground point (2).



20. Connect the trailer patch ECU connector to the ECU (1). Use the adhesive foam (1) provided to mount the ECU to the position shown (2). Apply pressure for adequate adhesion.

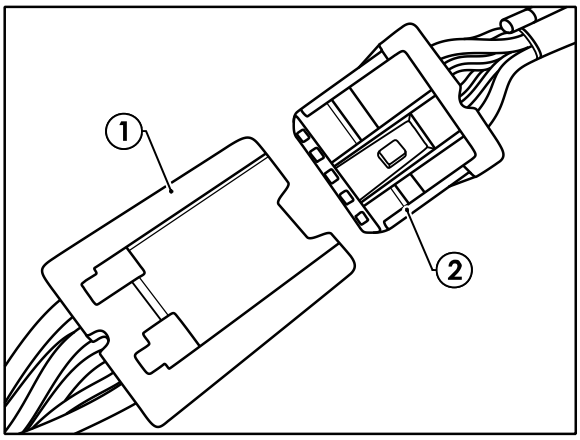


21. Locate the vehicle prewire connector (1). Connect this to the mating trailer patch harness connector (2).



22. Connect the tail harness blue connector (1) to the mating trailer patch blue connector (2).

    Route the rest of the trailer patch harness along the main vehicle loom and secure with cable ties where necessary (not supplied).



23. Reassemble vehicle following steps 1-13 in reverse.
    Test trailer harness function using a trailer test board.
    Place fitting instructions in glove box once complete.

49-75 Pacific Drive Keysborough, VIC 3173
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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)

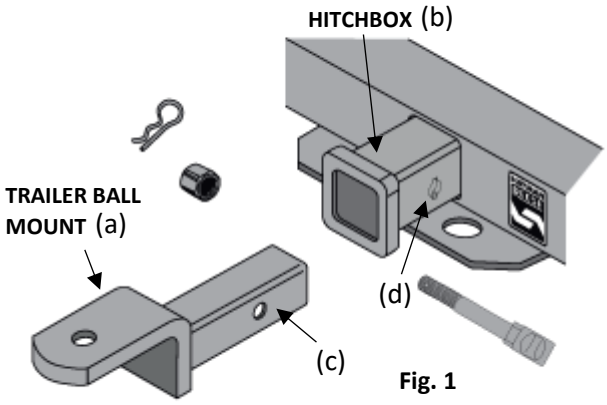


Fig. 1

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)

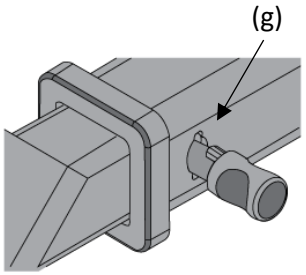


Fig. 2

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.

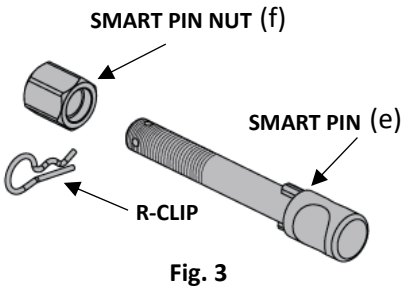
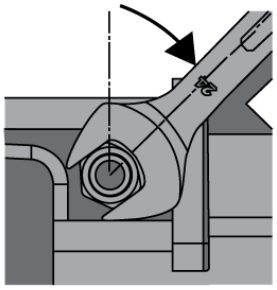


Fig. 3

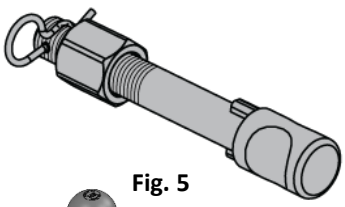
STEP 4

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

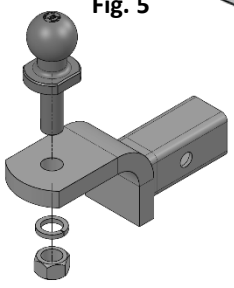
STEP 5

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 **<u>350 Nm</u>** using a calibrated torque wrench (Fig. 6).


Fig. 6

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