TOWBAR
INSTALLATION INSTRUCTIONS

PART NUMBER 03600RW

HYUNDAI SANTA FE MX5



PRODUCT DETAILS:

Part Number:	03600RW	**Maximum Towing Braked:**	2000	kg
ECU Number:	WLE70034	**Maximum Towing Unbraked:**	750	kg
Tail Harness Length Required:	1200mm	**Maximum Static Ball Load:**	200	kg
TBM/Lug Part Number:	21126			
Wiring Part Number:	WLL90033			

FITTING DETAILS:

Towbar Installation Time:	180 Mins.	**Hayman Reese SmartCODE Solution Required:**	NO
Wiring Installation Time:	20 Mins.	**RPA Disable/Other:**	YES
Total Installation Time:	200 Mins.		
Bumper Cut Required:	Yes		

Note:

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

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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

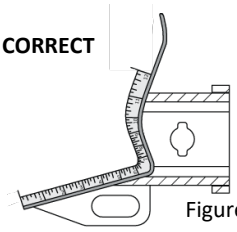


Figure 1

INCORRECT

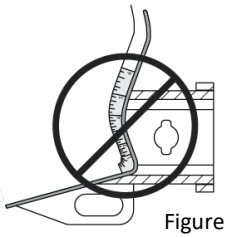


Figure 2

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.

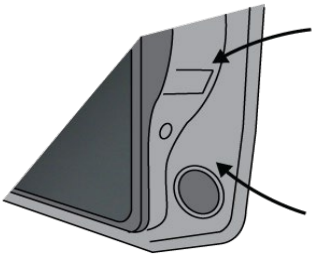
Bolts/Fasteners

- 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.

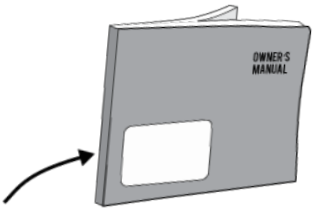
Product Labels

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.

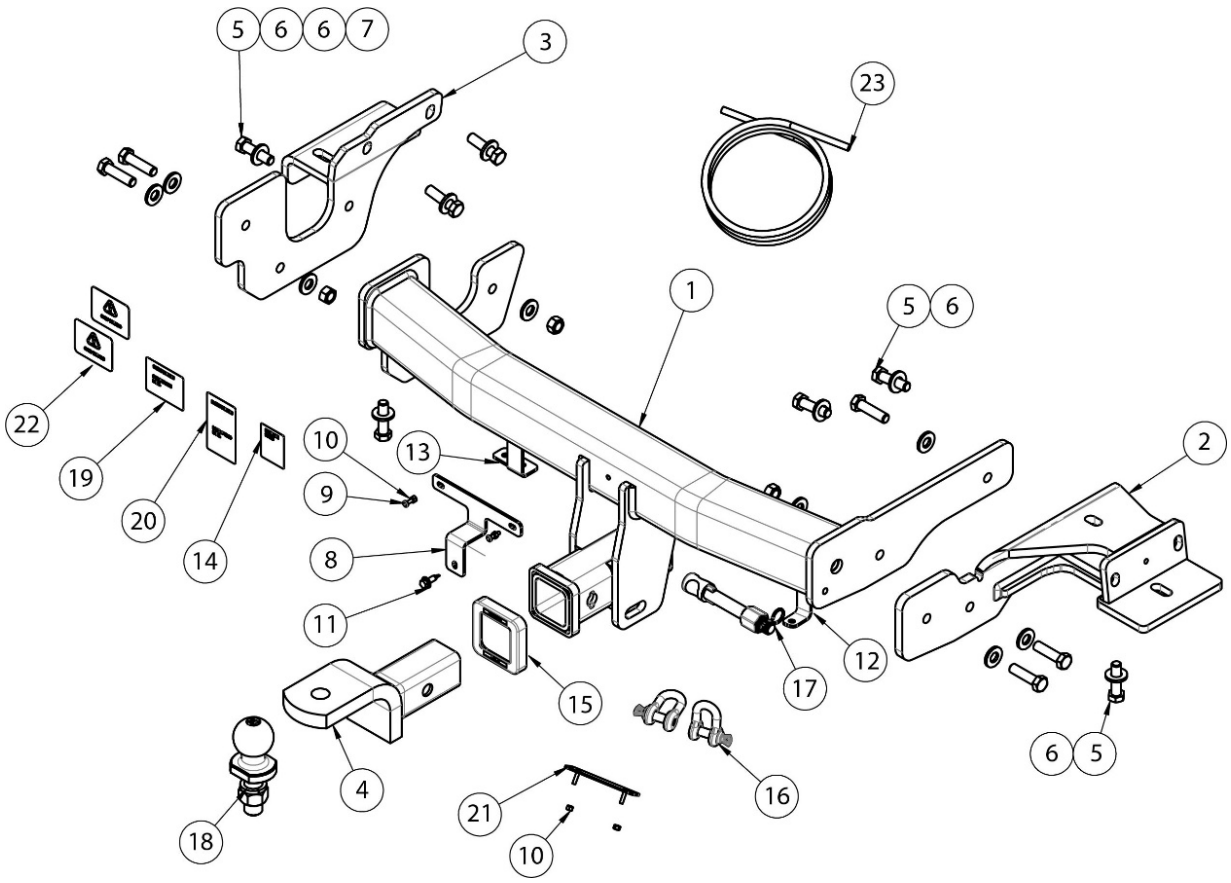
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TOWBAR
INSTALLATION INSTRUCTIONS

PART NUMBER 03600RW

HYUNDAI SANTA FE MX5

TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	HYUNDAI SANTA FE WELDED ASSY	1
2	SIDE ARM - RHS	1
3	SIDE ARM - LHS	1
4	TRAILER BALL MOUNT	1
5	BOLT HEX HD M12x45x1.25P G8.8	12
6	WASHER PLAIN M12x27x3.0mm	15
7	NUT HEX HD M12x1.25P G10	3
8	SENSOR BRACKET	1
9	SCREW PAN HD M4x16x0.7P G4.6	2
10	NUT NYLOC HEX HD M4x0.7P G8	4
11	TEK SCREW 14-20 HEX HD 22mm	1
12	BUMPER TAB - LHS	1

ITEM	DESCRIPTION	QTY
13	BUMPER TAB RHS	1
14	HAYMAN REESE LOGO STICKER	1
15	HITCH BOX COLLAR COVER	1
16	D-SHACKLE 10mm	2
17	SMART PIN GOLD	1
18	TOWBALL 50MM 3500KG	1
19	COMPLIANCE LABEL	1
20	LOAD RATING LABEL	1
21	PLUG BRACKET	1
22	CAN MODULE WARNING LABEL	2
23	WIRE LOOM	1

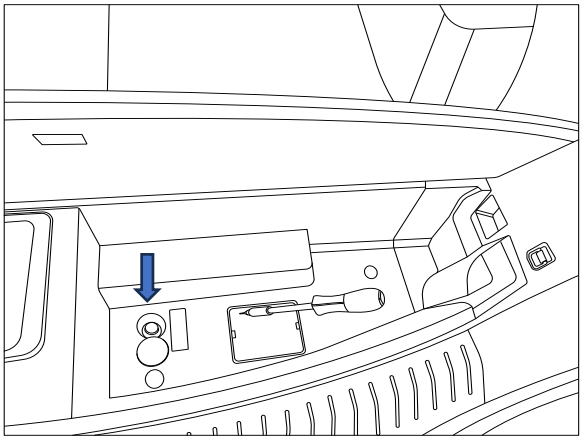
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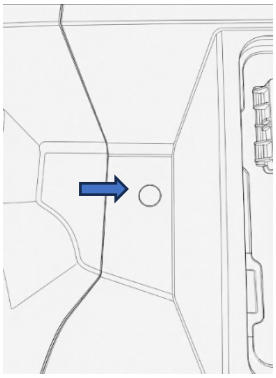
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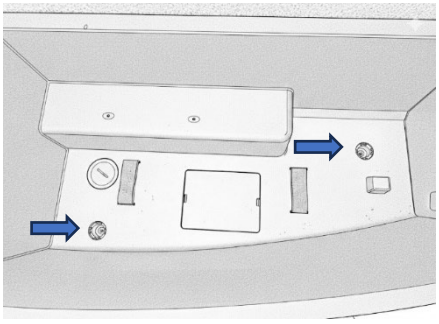
HYUNDAI SANTA FE MX5

1. Open the tailgate.
   Lift the boot floor panel.
   Remove the tire jack kit.

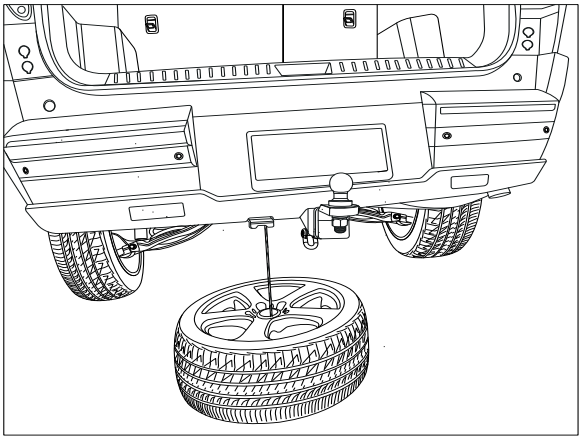


2. On the driver side,
   Remove 2x screws.
   On the passenger side,
   Remove 1x screw.
   Remove cargo storage trim.





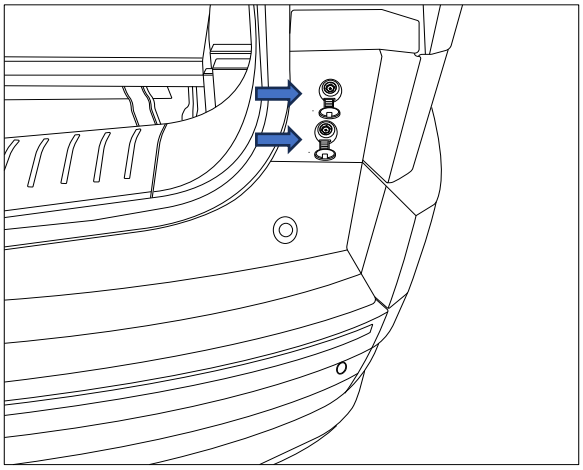
3. Lower and remove the spare wheel.



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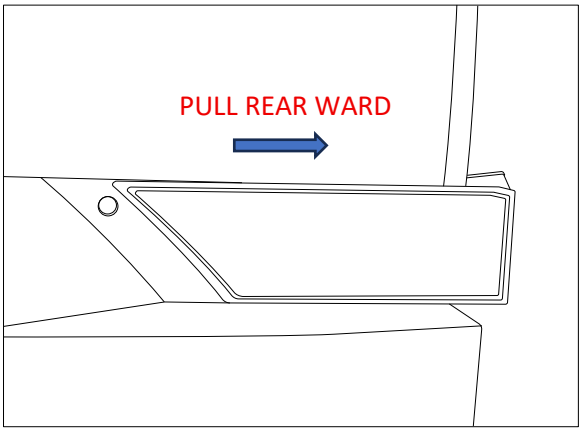
4. Open the 2x screw caps.
   Remove the 2x screws.

   Repeat for the other side



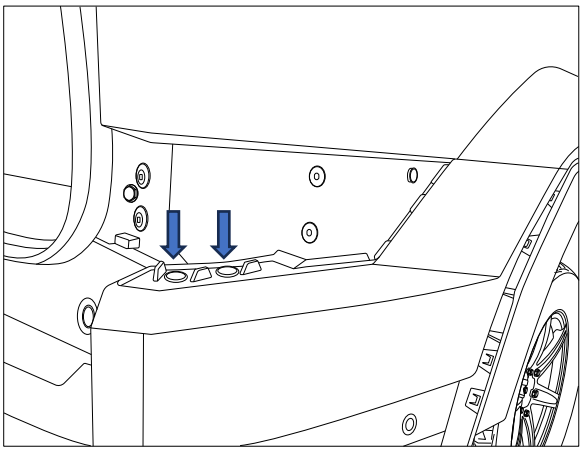
5. Pull the reflector rear ward of the vehicle and remove it.
   Keep it in a safe place.

   Repeat for the other side



6. Remove 2x scrivets from the bumper.

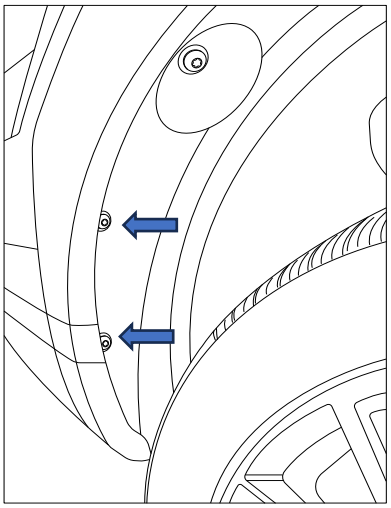
   Repeat for the other side.



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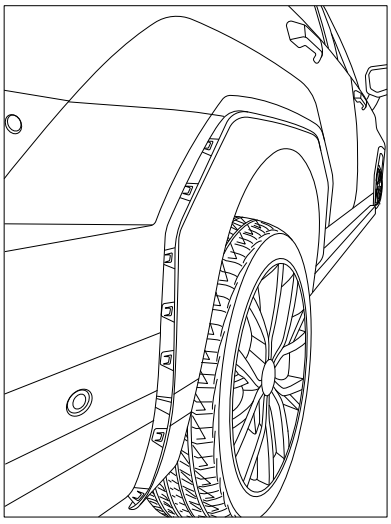
7. Remove 2x scrivets from the wheel arch liner.

   Repeat for the other side.

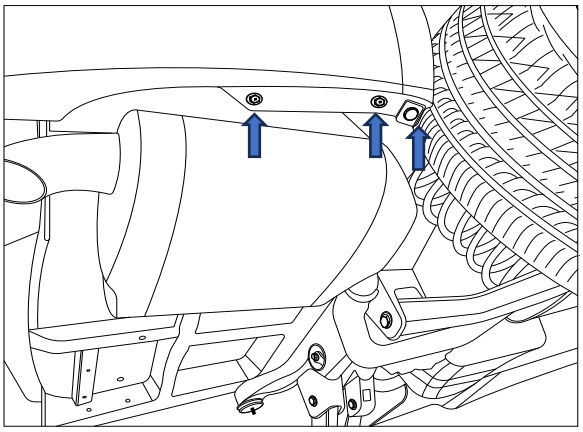


8. Unclip the wheel arch.

   Repeat for the other side.

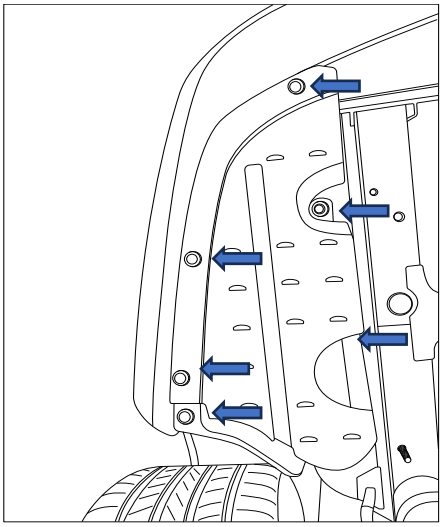


9. Remove 3x scrivets behind the driver rear wheel.

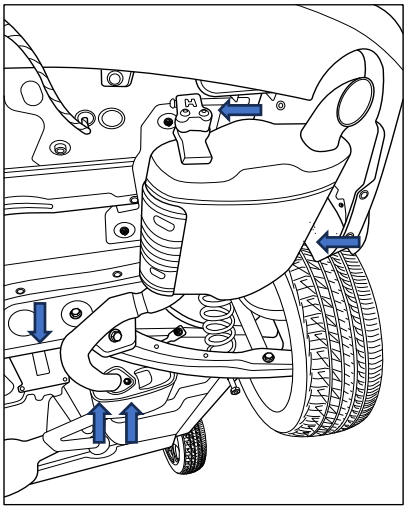


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10. Remove 4x scrivets behind the passenger rear wheel.
    Unscrew 2x plastic nuts and remove the plastic under cover.

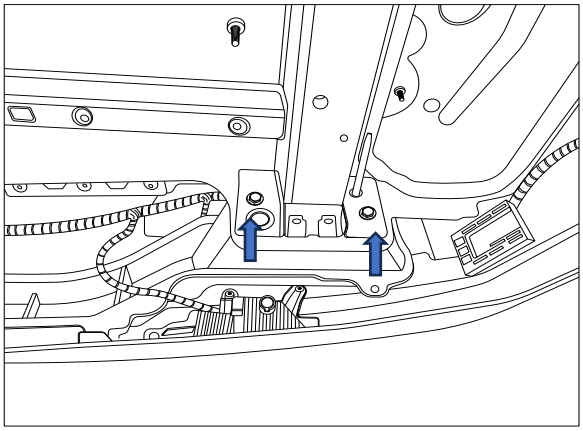


11. Unscrew 2x screws from the muffler pipe flange.
    Slide the 3x muffler rubber hangers and remove the muffler.



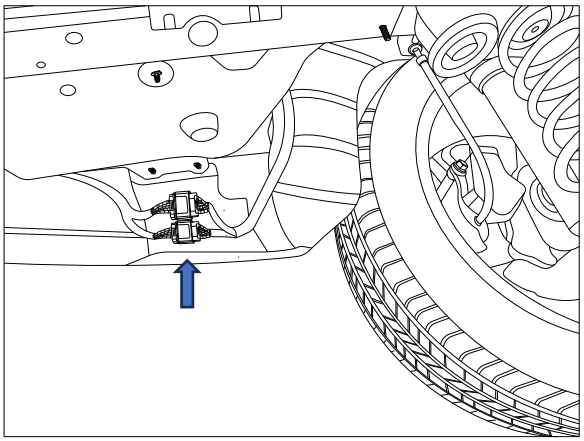
12. Remove 2x screws behind the bumper.

    Repeat for the other side

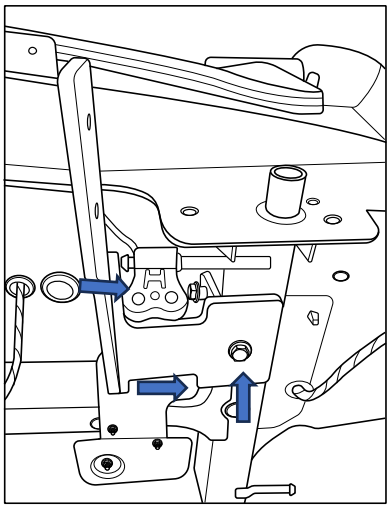


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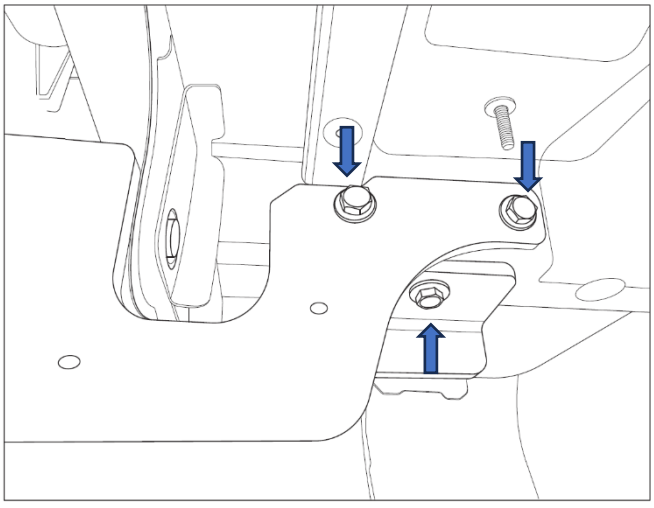
13. Dislodge the bumper harness.
    Unclip and remove the bumper.



14. **Fit the rubber muffler hanger back to the vehicle**.
    Place the side arm to the driver side chassis.
    Secure it with 3x M12x1.25 and 3x washers.

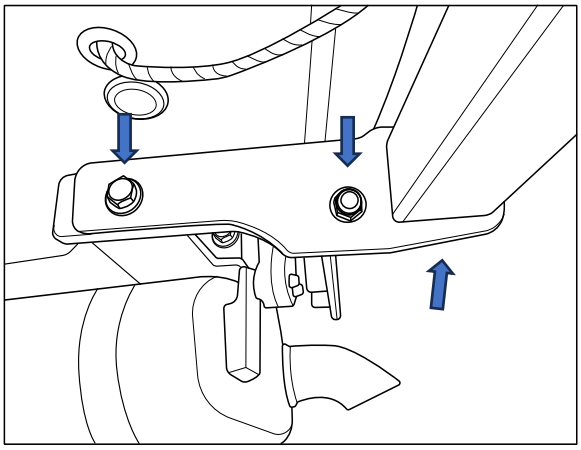


15. Place the side arm to the passenger side chassis.
    Secure it with 3x M12x1.25 and 3x washers.



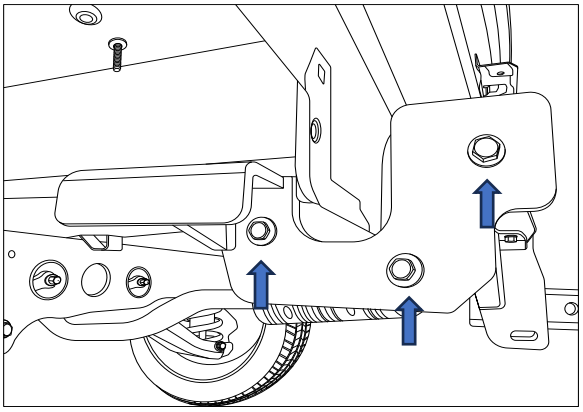
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16. Place the cross tube between the side arms. On the vehicle driver side, secure it with 3x M12x1.25, 4x washers and 1x nut.

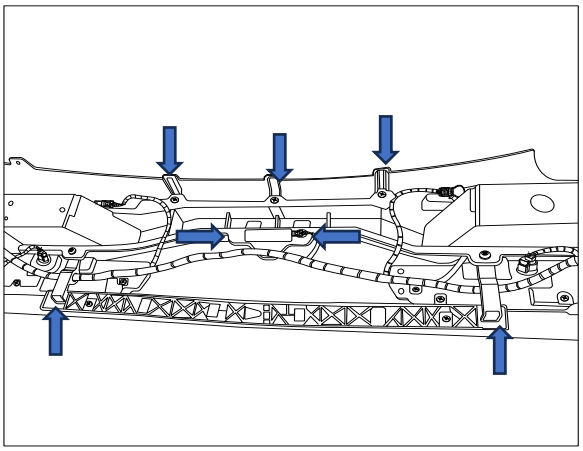


17. On the vehicle passenger side, secure it with 3x M12x1.25, 5x washers and 2x nuts.

Torque the fasteners as follows:
M12 x 1.25 CL8.8 = 89 Nm

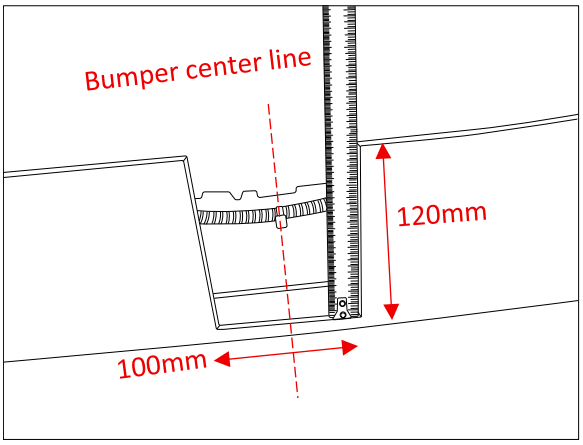


18. Remove 5x scrivets from the impact beam. Remove 2x screws on the sensor. Dislodge and retain the sensor.
Dislodge the 2x light connectors. Remove and discard the impact beam.
Reconnect the 2x light connectors.



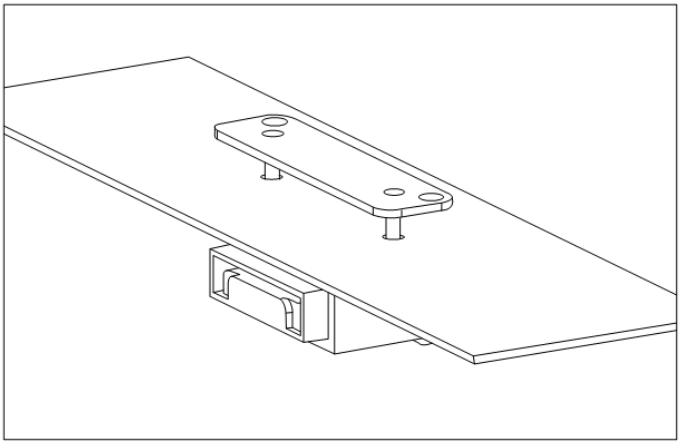
19. Place masking tape on the bumper outer skin
Mark and cut out an area 120mm x 100mm as shown to clear the hitch box.
Remove all swarf and rough edges.

NOTE:
Remove any wiring in the cut-out area before cutting.

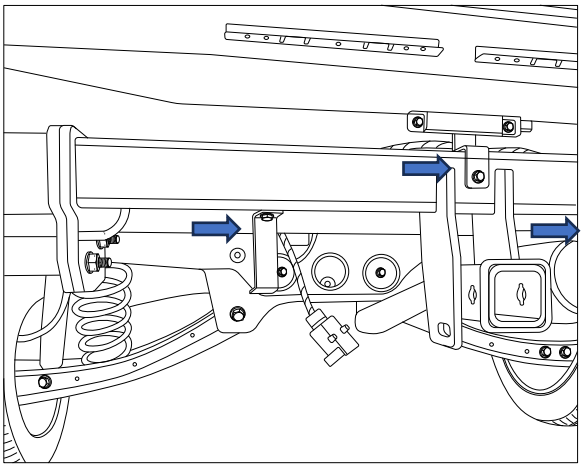


20. Locate the plug bracket and ensure the harness cable length is long enough.
Drill 2x ø5mm holes 69mm apart.

Remove all swarf and rough edges



21. Fit 2x bumper tabs and a sensor bracket to the bar.
Secure each bracket with a Tek screw.
Fit the sensor to bracket and secure it with 2x screws and 2x nuts.



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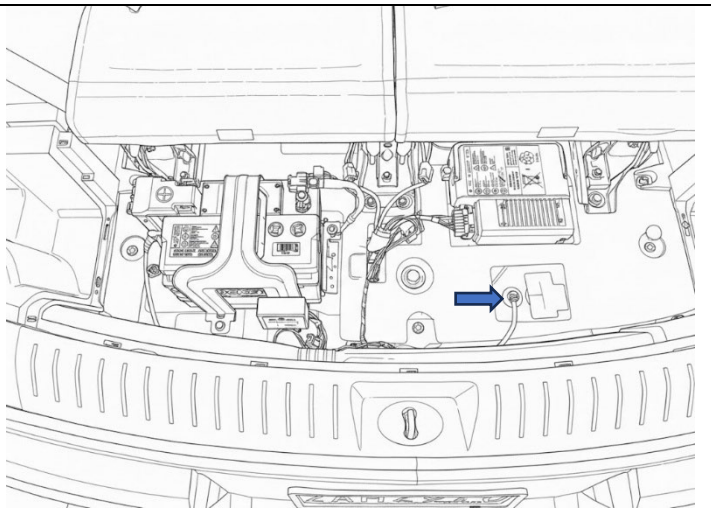
IMPORTANT

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.

22. Using a step drill drill a Ø30mm hole in area indicated.

    Remove any burrs and sharp edges.

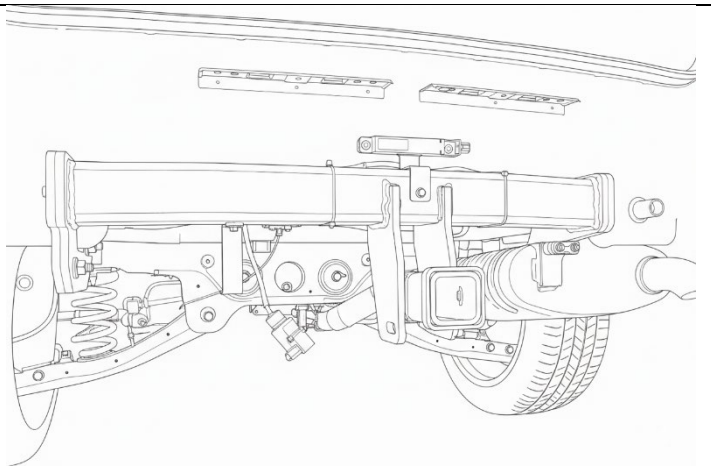
    Spray rust inhibitor.



23. From outside the vehicle feed the tail harness blue connector through the previously drilled out hole.
    Slide the grommet to desired location and secure with supplied cable tie.

    Note: Ensure the grommet makes a good seal.

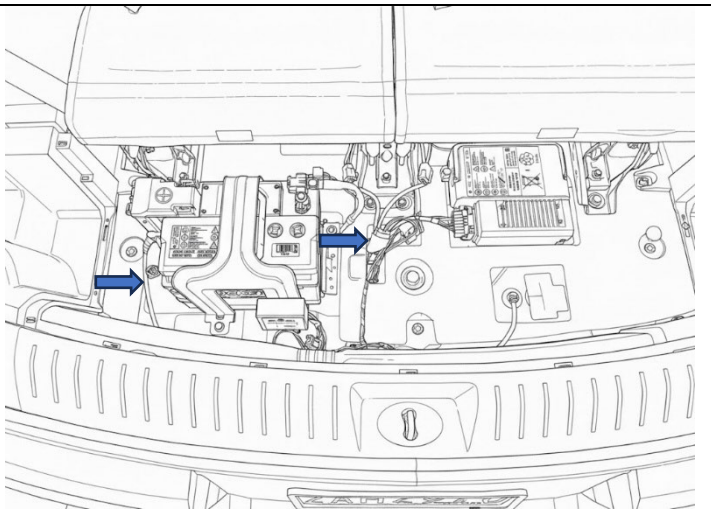
Note: Keep harness routing clear of all sharp edges, moving parts and places of extreme heat.



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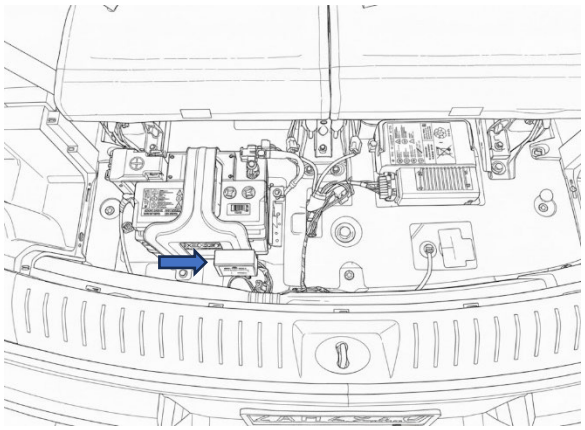
24. Connect the trailer patch ring terminal to a suitable ground point.
    Locate the vehicle 8-way trailer prewire connector and connect to mating 8-way trailer patch connector.

    Note: Tape the 6-way Male connector on the trailer patch to ensure connector cannot short out to vehicle.



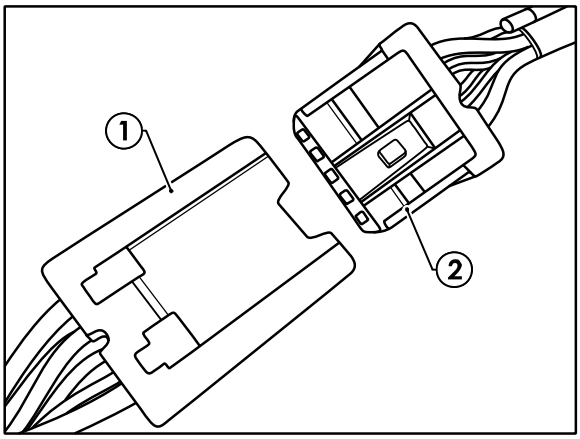
25. Connect the trailer patch 18-way connector to trailer module (WLE70034).
    Using an alcohol wipe, clean a suitable area on the vehicle so to adhere the trailer module.
    Place the trailer module to previous cleaned area and apply force to achieve good adhesion.

    Note: Mount the ECU, ensuring the connector is orientated downwards.



26. Connect the tail harness (tail length 1200mm) 8-way connector (1) to the trailer patch mating 8-way connector (2).
    Secure all harness using supplied cable ties.
    Test the trailer patch function using a light board.
    Re-assemble all the removed parts, from Step 1 to Step 18, in the reverse order of removal.
    Ensuring there are no squeaks or rattles.

    Place the fitting instructions in the glove box after fitment.



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)

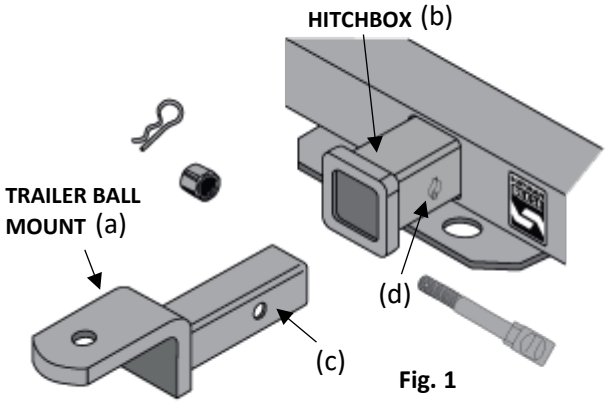


Fig. 1

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)

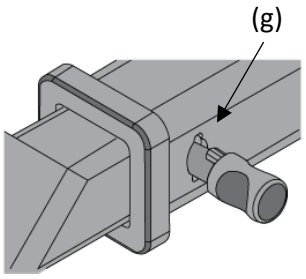


Fig. 2

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.

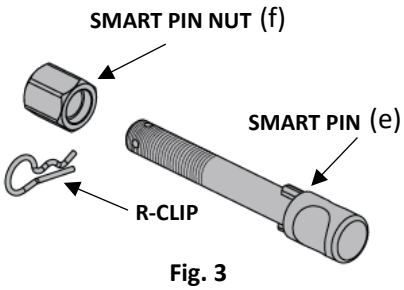
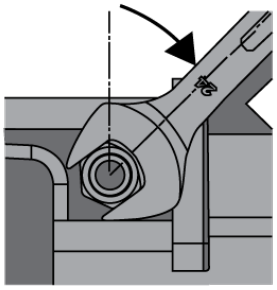


Fig. 3

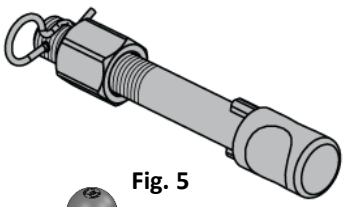
STEP 4

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

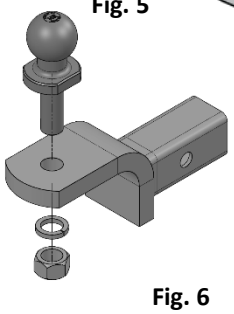
STEP 5

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

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