

**PRODUCT DETAILS:**

|                                      |          |                                  |      |    |
|--------------------------------------|----------|----------------------------------|------|----|
| <b>Part Number:</b>                  | QTGN001L | <b>Maximum Towing Braked:</b>    | 2200 | kg |
| <b>ECU Number:</b>                   | WLE70033 | <b>Maximum Towing Unbraked:</b>  | 750  | kg |
| <b>Tail Harness Length Required:</b> | 1200 mm  | <b>Maximum Static Ball Load:</b> | 159  | kg |
| <b>TBM/Lug Part Number:</b>          | 21126    |                                  |      |    |

**FITTING DETAILS:**

|                                  |           |                           |     |
|----------------------------------|-----------|---------------------------|-----|
| <b>Towbar Installation Time:</b> | 80 Mins.  | <b>RPA Disable/Other:</b> | YES |
| <b>Total Installation Time:</b>  | 110 Mins. |                           |     |
| <b>Bumper Cut Required:</b>      | Yes       |                           |     |

**Note:**

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

### TRAILBOSS RECOMMENDS THAT INSTRUCTIONS ARE READ AND UNDERSTOOD COMPLETELY PRIOR TO FITMENT.

#

#### BEFORE YOU START:

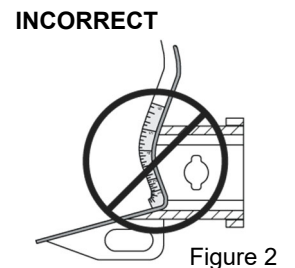
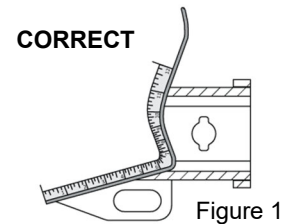
Check all hardware items have been included refer to assembly diagram.  
Please ensure this towbar is only fitted to vehicle models as per Trailboss application guide.

#### 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 Trailboss 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 metal 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 grade and 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 Trailboss warranty.**

#### Product Labels

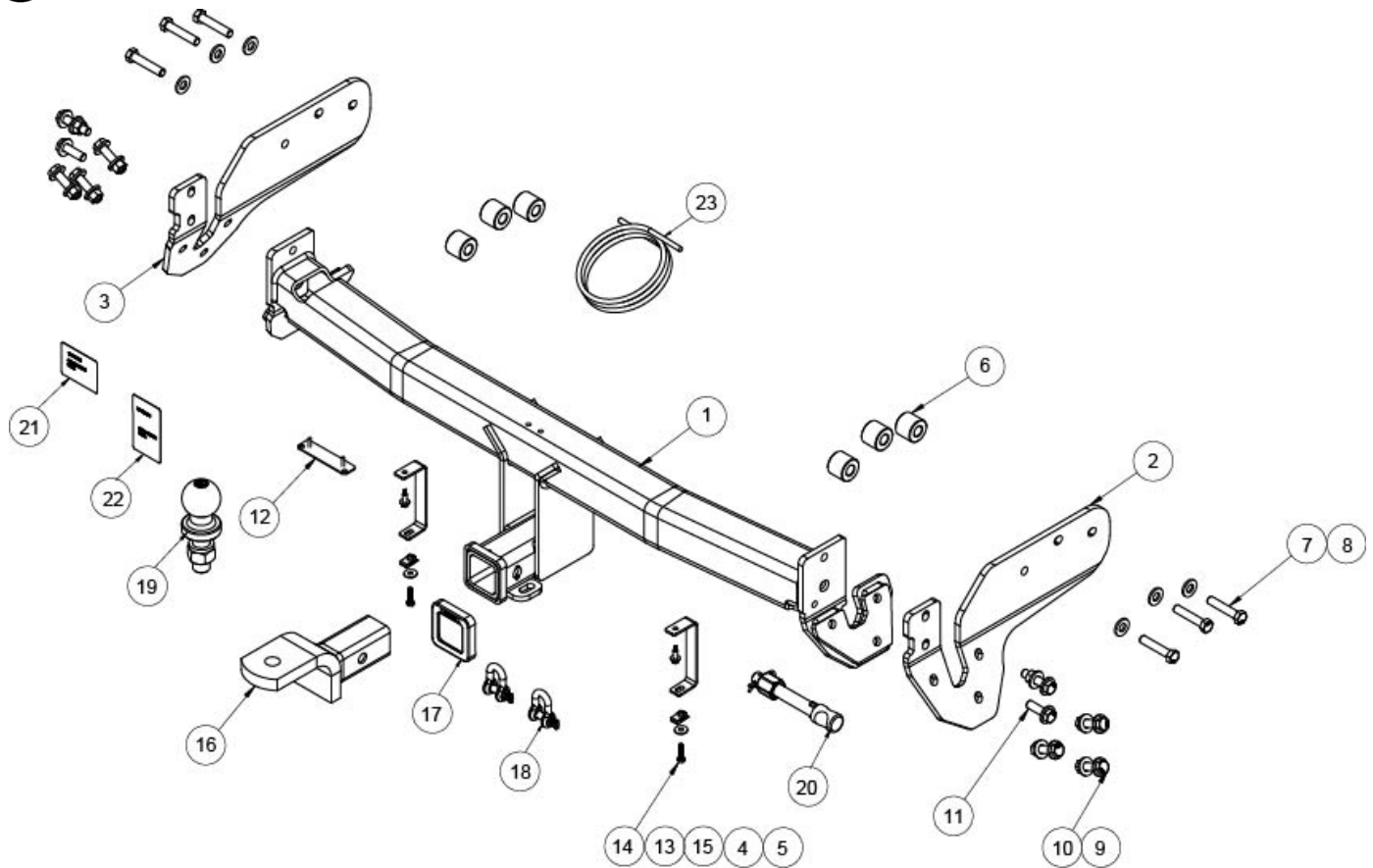
- a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.

### WARNING:

**Do not, drill, cut, weld or otherwise modify the towbar.**

**FOR TOWING PURPOSES ONLY - This towbar is designed and tested by Trailboss to adhere to ADR 62/02 which provides only for the expected load demands of towing.**

### **i** TOWBAR ASSEMBLY DIAGRAM

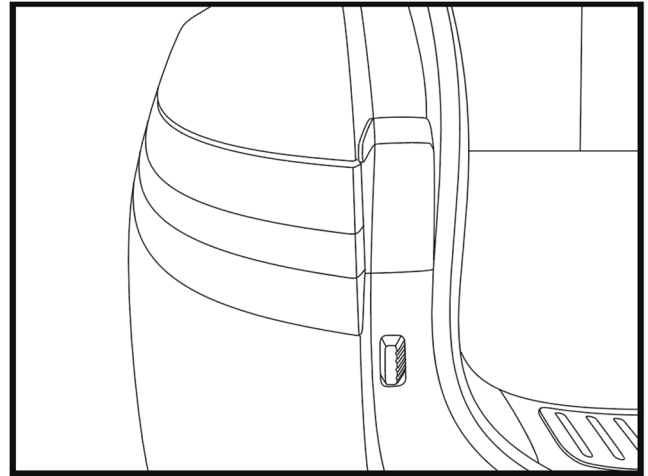


| ITEM | DESCRIPTION                     | QTY |
|------|---------------------------------|-----|
| 1    | GENESIS GV70 WELD ASSY          | 1   |
| 2    | RH SIDE ARM                     | 1   |
| 3    | LH SIDE ARM                     | 1   |
| 4    | BUMPER TAB BRACKET GV70         | 2   |
| 5    | TEK SCREW 14-20 HEX HD 22mm     | 2   |
| 6    | SPACER 36mm OD 30mm LONG        | 6   |
| 7    | BOLT HEX HD M12x60x1.25P        | 6   |
| 8    | WASHER PLAIN M12x27x3.0 mm      | 24  |
| 9    | NUT HEX HD M12 X 1.75P G8       | 8   |
| 10   | BOLT HEX HD M12x50x1.75P G10.9  | 8   |
| 11   | SCREW HEX HD M12x40x1.75P G10.9 | 2   |
| 12   | PLUG BRACKET                    | 1   |

| ITEM | DESCRIPTION                  | QTY |
|------|------------------------------|-----|
| 13   | CLIP NUT 6MM                 | 2   |
| 14   | SCREW HEX HD M6x25x1.0P G8.8 | 2   |
| 15   | WASHER PLAIN 1/4x3/4x16G     | 2   |
| 16   | TRAILER BALL MOUNT           | 1   |
| 17   | HITCH BOX COLLAR COVER       | 1   |
| 18   | D-SHACKLE 10mm               | 2   |
| 19   | TOWBALL 50mm                 | 1   |
| 20   | SMART PIN SILVER             | 1   |
| 21   | COMPLIANCE LABEL             | 1   |
| 22   | LOAD RATING LABEL            | 1   |
| 23   | WIRING LOOM                  | 1   |

1. On the LHS, remove plastic guard covering the fasteners that hold the rear light to the vehicle.

Repeat for RHS

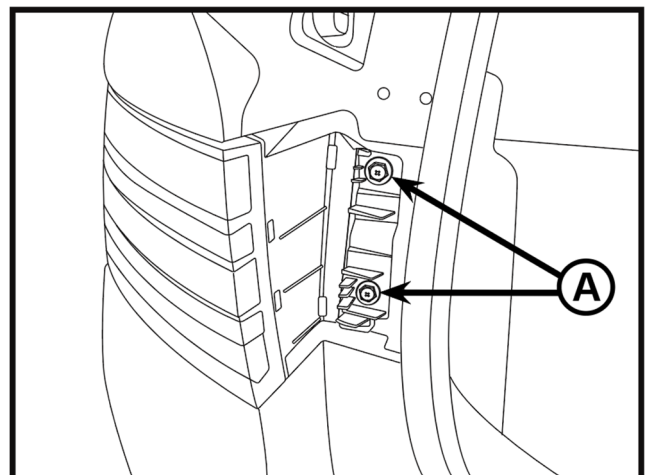


2. Remove 2 x screws holding the LHS rear light to the vehicle (**A**)

Unclip any electrical connectors from the rear light assembly.

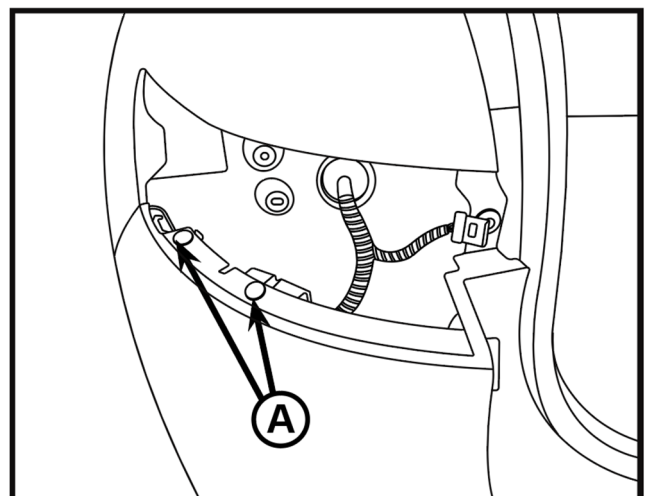
Carefully remove the rear light assembly from the vehicle and store in a safe place.

Repeat for RHS



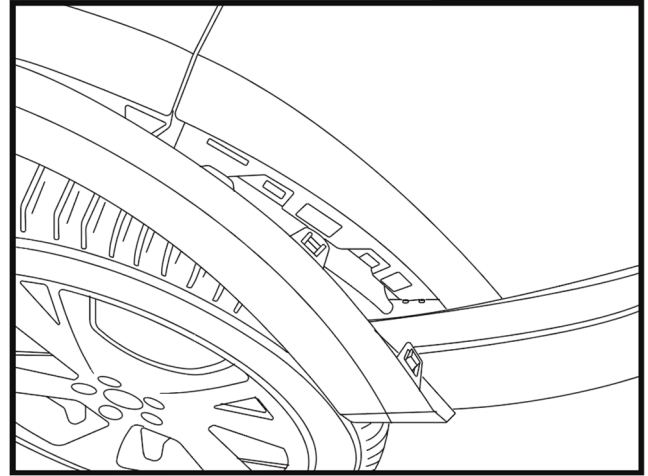
3. On the LHS, remove 2 x scrivenets (**A**) from the bumper.

Repeat for RHS



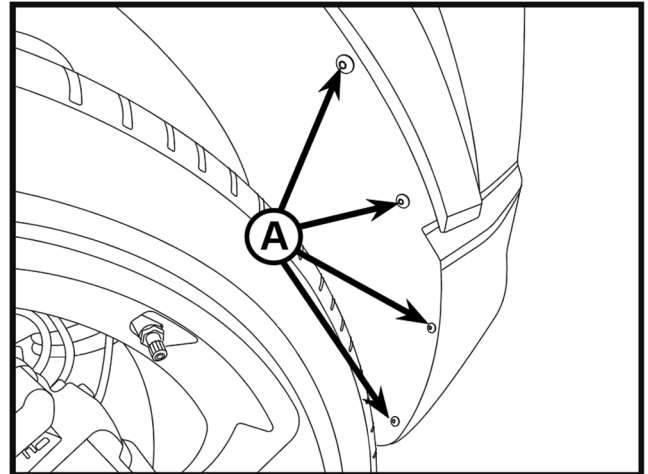
4. Apply masking tape on the area where the bumper meets the wheel arch trim. Carefully remove wheel arch trim on the LHS.

Repeat for RHS



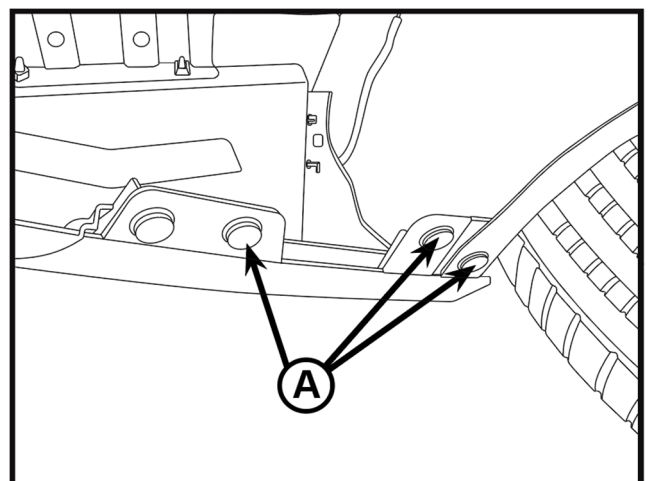
5. On the LHS remove 4 x screws (A) connecting the wheel arch liner to the rear bumper.

Repeat for RHS



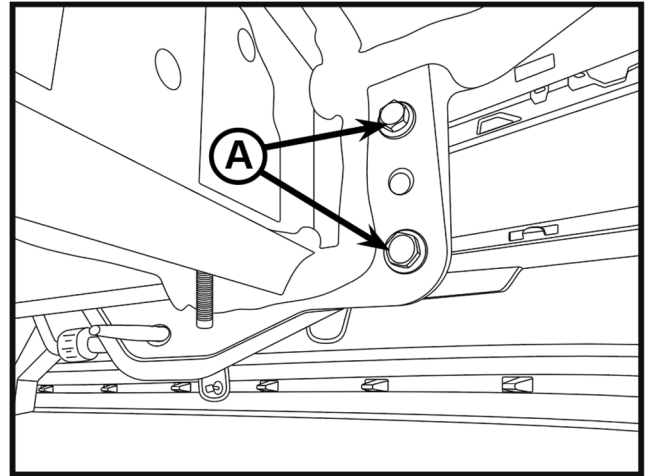
6. Remove 3 x scrivenets (A) attaching the LHS wheel arch liner to the rear bumper.

Repeat for RHS



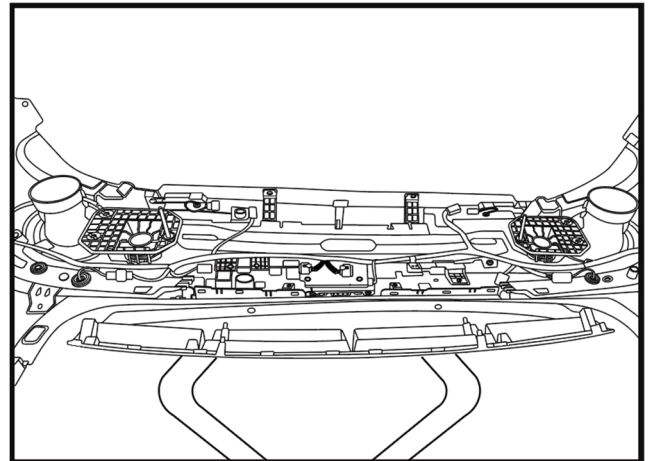
7. On the LHS inside the rear bumper remove 2 x 12mm Bolts (A) connecting the impact beam to the vehicle chassis back panel.

Repeat for RHS



8. Carefully dislodge the rear bumper from the vehicle and disconnect all electrical connections to the vehicle.

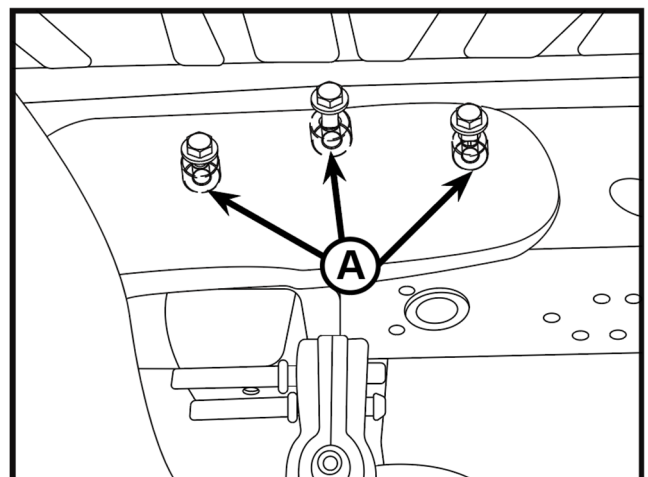
Place rear bumper on a bumper stand.



9. On the RHS chassis rail use 3 x Spacers, 3 x M12x60x1.25p Bolts (A), 3 x M12 Plain Washers to loosely fasten the RH Sidearm to the vehicle chassis.

**NOTE:** Spacers are to be used between the side arm and chassis. Refer to Towbar Assembly diagram on Page 3.

Repeat for LHS

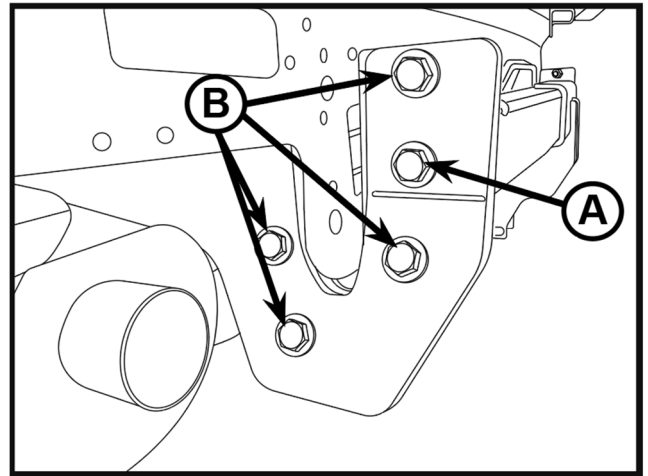


10. NOTE: 2 people minimum is required to lift the towbar onto the side arms.

Lift the Towbar between the bolted Sidearms, use 1 x M12x40x1.75p Bolt and 1 x M12 Plain Washer on each side to loosely fasten the towbar onto the Sidearms at position **(A)**

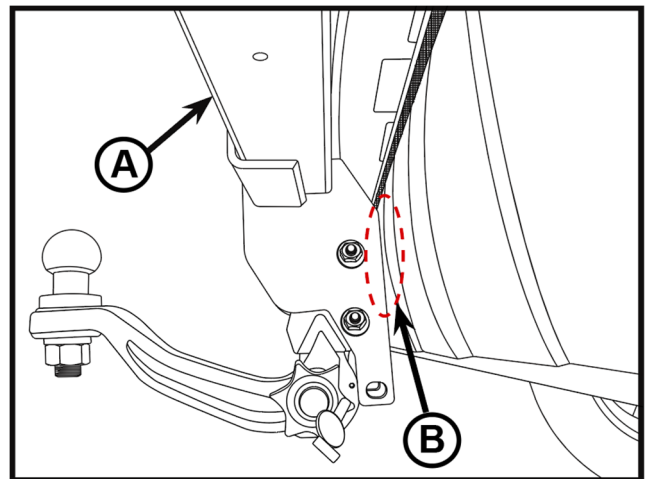
Use 4 x M12x50x1.75p Bolts **(B)**, 8 x M12 Plain Washers and 4 x M12x1.75p Nuts to loosely fasten the LH Side Arm to the towbar.

Repeat for RHS



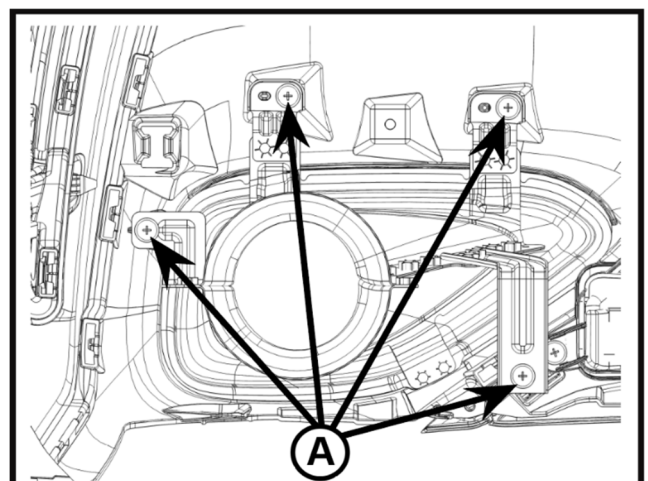
11. Apply upwards force to lift Main Towbar Assembly **(A)**, check for sufficient clearance to exhaust muffler is achieved **(B)** and torque all fasteners as per the table below.

| Fastener    | Torque (Nm) |
|-------------|-------------|
| M12 x 1.75p | 109         |
| M12 x 1.25p | 125         |



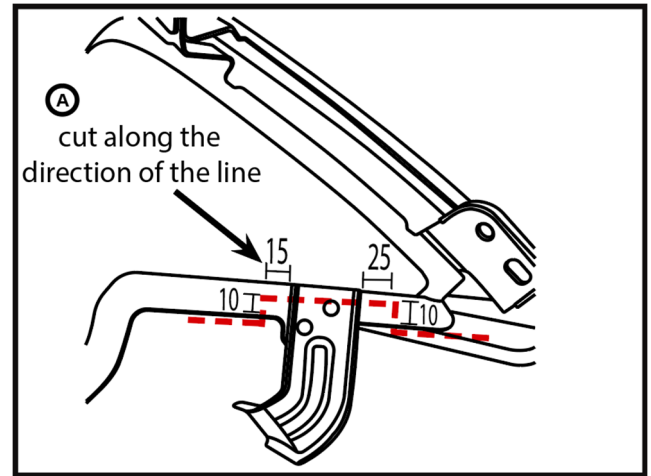
12. On the rear bumper bar remove 4 x screws **(A)** connecting the RHS exhaust cover to the bumper. Discard 1 x screw.

Repeat for LHS



13. Cut and discard the metal tab section connecting the RHS exhaust cover to the bumper bar (A).

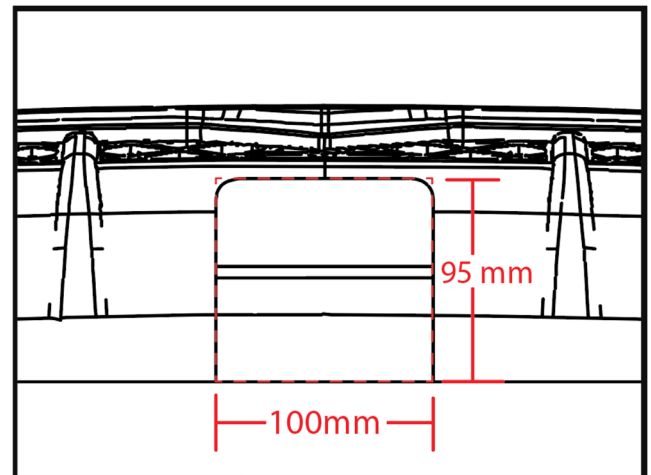
Repeat for LHS



14. Cut and drill the rear bumper bar as per the diagram.

Debur any sharp edges with a file.

Place bumper trim pinch weld over the cut edge of the bumper.



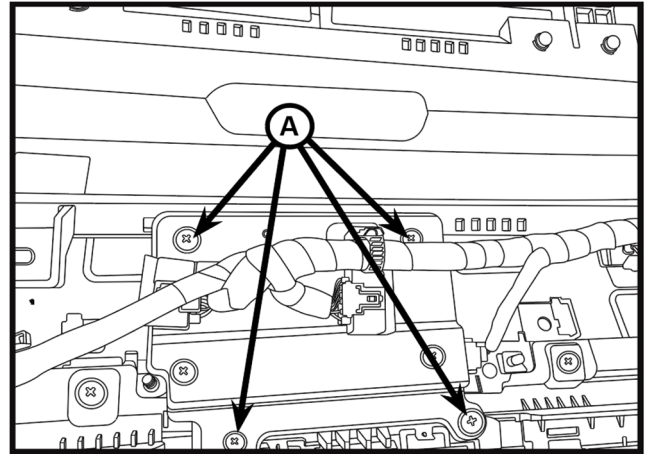
15. Insert trailer ball mount into the receiver housing.

Attach the tow ball to the trailer ball mount using spring washer and nut, and tighten to 350Nm

Attach D shackles to chain connection points on the tow bar.

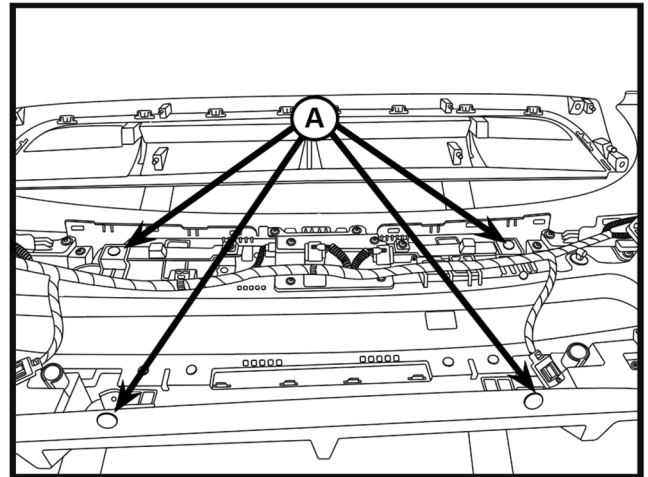
16. On the rear bumper bar, remove 4 x screws (A) holding the key sensor bracket to the crash beam.

Discard 2 x screws (A) and remove key sensor bracket from the crash beam.

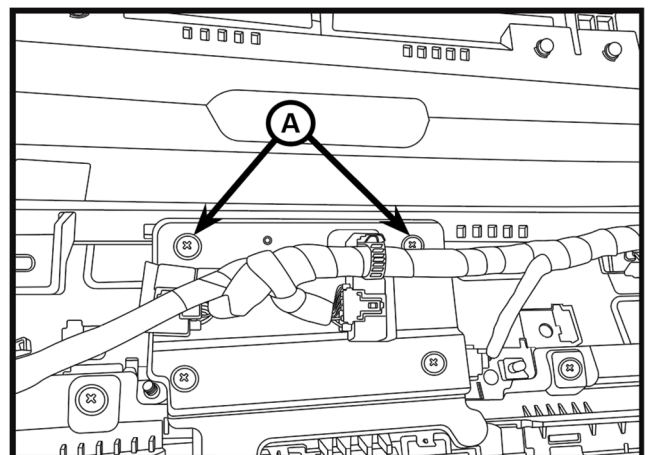


17. Remove 4 x scrivets (A) connecting the crash beam to the rear bumper, disconnect all wiring attached to the crash beam.

Remove and discard the crash beam.

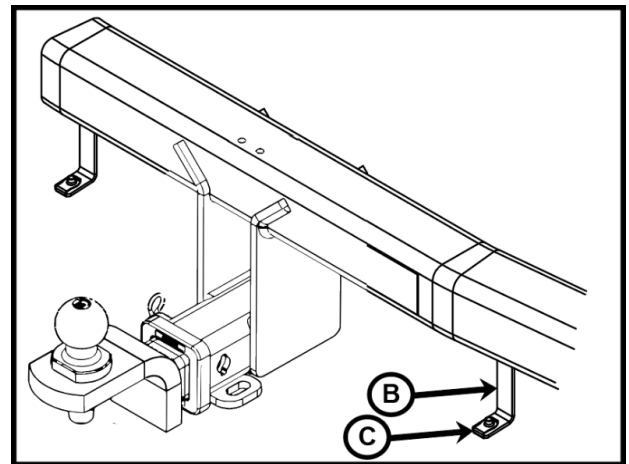
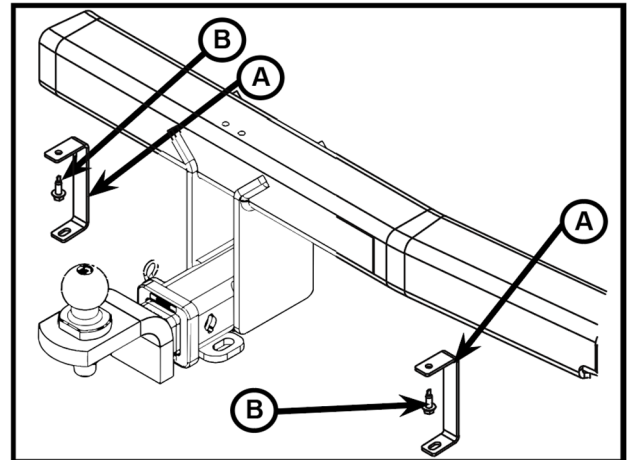


18. Re-install the key sensor bracket (A) using the 2 x screws from Step 16.



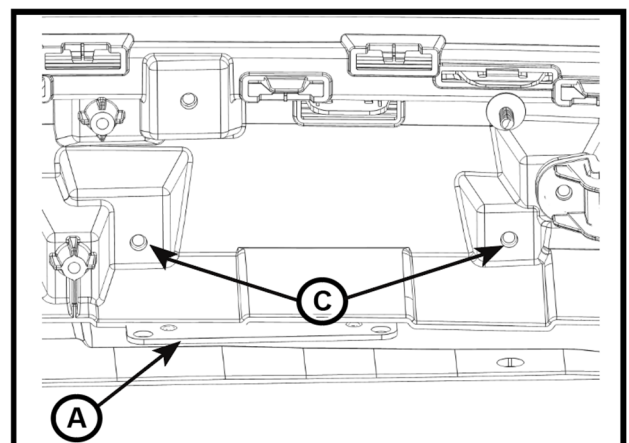
19. Attach 2 x Bumper Tab Brackets (**A**) to the underside of the Towbar in the correct position so they can attach to the rear bumper bar. Use x1 Tek Screw to secure each bracket (**B**).

Attach 2 x 6mm Clip Nuts (**C**) to the Bumper Tab Brackets



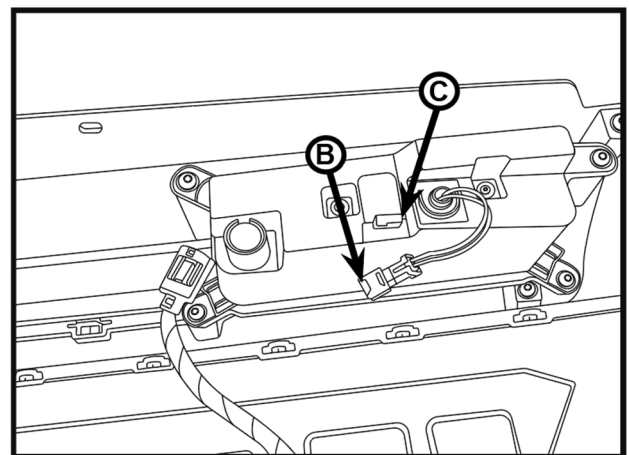
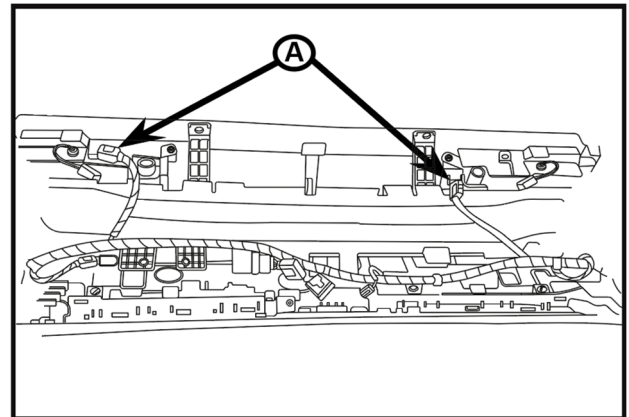
20. Gently lift the internal skin on the inside of the rear bumper by removing the 2 x screws nearby (**B**), allowing the wire harness mount (**A**) to be slid underneath.

Secure the trailer wiring harness to the mount using 2 x M4 screws and 2 x M4 Nylon Nuts.

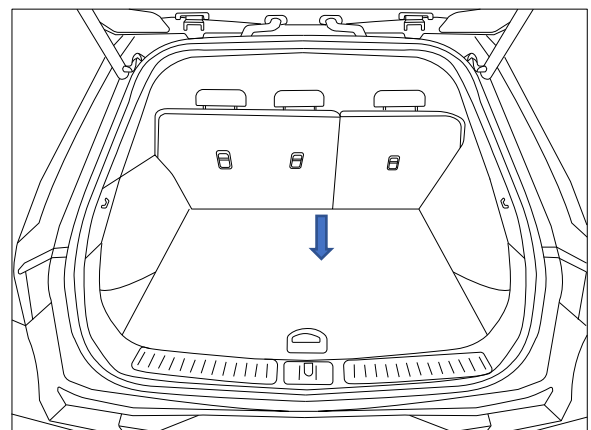


21. Disconnect the 2 reverse lights connections on the LHS and RHS of the rear bumper (A), then remove the shorter connector (B) from the reverse lamp clips (C) on both sides. Reconnect the 2 reverse light connectors with the shorter ends that are now free from their clips.

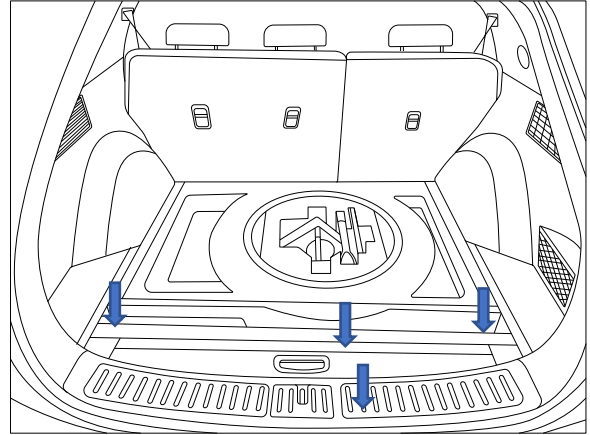
Doing this allows for more free play in the wire so the wire doesn't get caught on the towbar once the bumper is fitted back on.



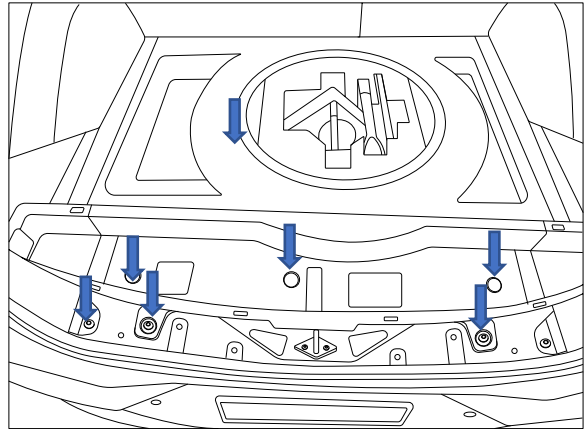
22. Remove Cargo floor cover.



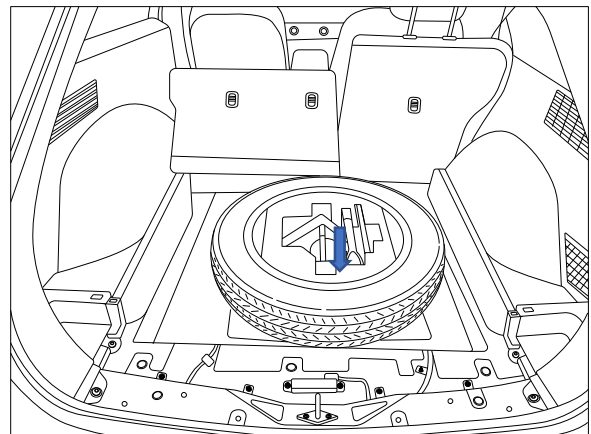
23. Remove cargo floor LH & RH side wings.
24. Remove rear cargo sunshade (if applicable).
25. Remove rear scuff trim.



26. Remove 3x fastener cover to expose 3x hex screws.
27. Remove 6x fasteners as shown.
28. Remove tyre cover.
29. Remove rear cargo storage box.

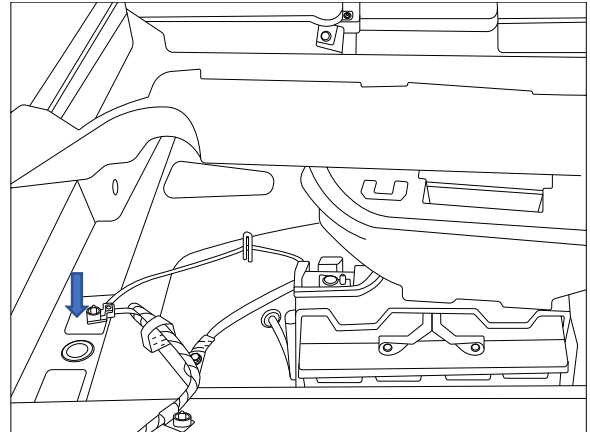


30. Remove foam jack holder.
31. Remove spare wheel.

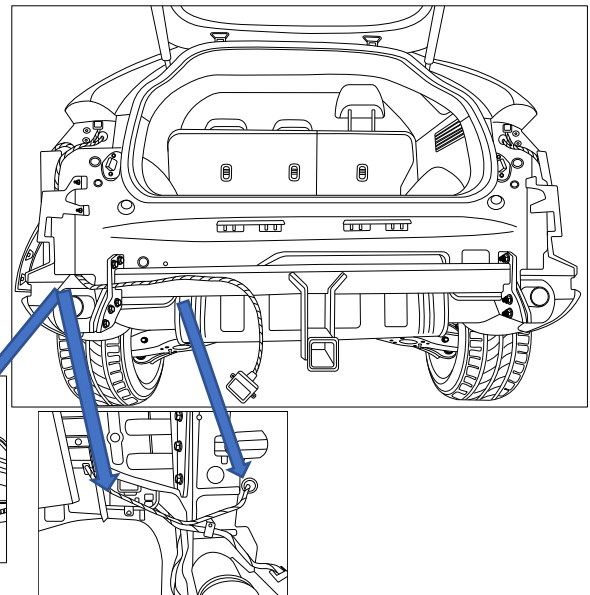
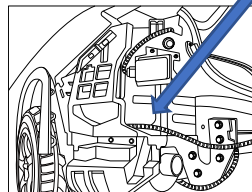


32. Inside the cargo area locate and remove the Ø25mm blanking grommet discard the grommet.
33. Using a step drill, drill the hole out to Ø30mm.

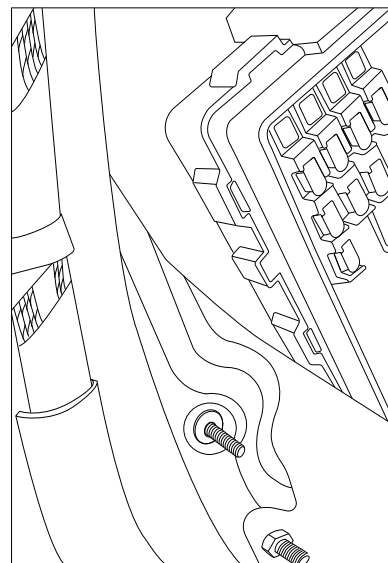
**Remove any burrs and sharp edges.  
Spray rust inhibitor.**



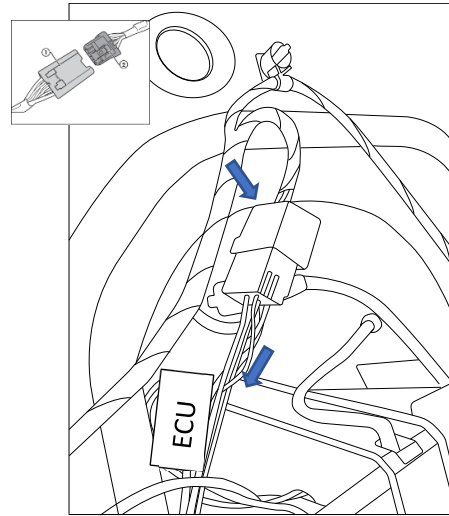
34. From outside the vehicle secure the tail harness allowing enough length to be able to attach trailer socket to bumper plug bracket.
35. Route the tail harness towards the LHS of the vehicle.
36. Due to exposure of exhaust follow pathway as indicated.
37. Slide the grommet to desired location and secure with cable tie.
38. Seat grommet and ensure good seal.



39. Inside the cargo area dislodge LHS cargo trim enough to give access to factory GND stud.
40. Connect trailer ring terminal to GND and secure with M6 nut (not supplied).

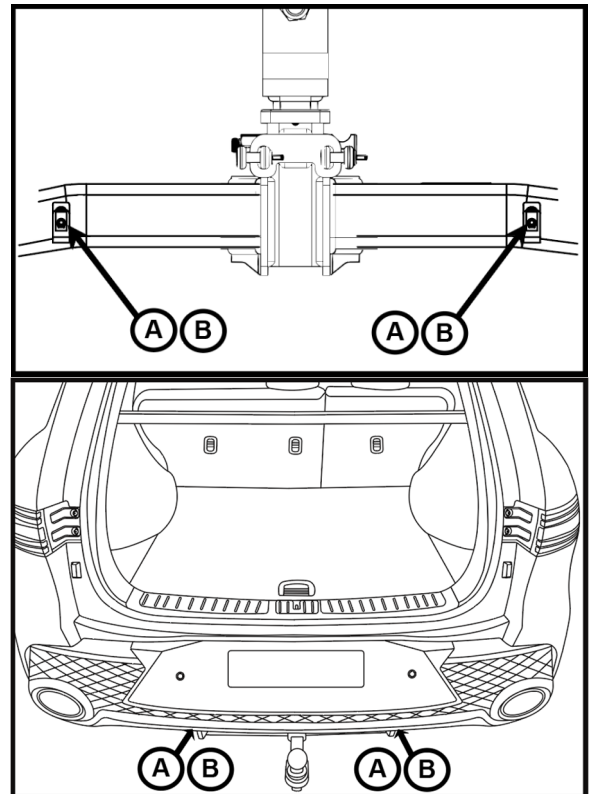


41. Connect the trailer patch ECU 18-way connector to trailer ECU (WLE70033).
42. Place the ECU in battery well area with connector facing downwards.
43. Peel the electrical tape to expose 6-way Prewire connector.
44. Connect trailer patch 6-way Prewire connector to vehicle 6-way Prewire connector.  
(Tape back the 8-way white Prewire connector back to harness which is not used).
45. Connect trailer patch 8-way blue connector to tail harness mating connector.



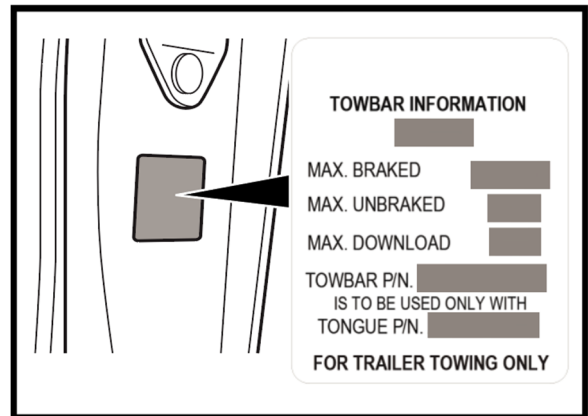
46. Refit the rear bumper bar by following steps 1 to 8 in reverse. Ensure all wire connectors are re-attached and working.

Attach the bumper to the bumper tab brackets using 2 x Set Screw M6x25x1P **(A)** and 2 x Washer Plain 1/4 X 3/4 **(B)**



47. Test trailer function using a lightboard.
48. Secure harness using cable ties.  
**Note: Ensure to keep harness away from sharp edges and heat source.**
49. Refit all interior in reverse from steps 22-25.
50. Place fitting instruction in glovebox.

51. Affix load rating label to the inside of the driver side B pillar.



## TOWBAR MAINTENANCE AND CARE:

1. Trailboss recommend that the towbar LUG or TBM (Trailer Ball Mount) Pull Pin and R-clip are removed and stored when not in use. Removal of LUG or TBM (Trailer 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. Trailboss 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:

Trailboss 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 contact customer service on 1800 812 017.

## PRO SERIES SILENT ANTI-RATTLE HITCH PIN

Your Trailboss towbar is equipped with a Pro Series Silent Anti-Rattle Hitch 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 Silent Anti-Rattle Hitch Pin. 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 hitch pin nut is installed and tensioned. Replacement parts are available from your Pro Series 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)

### STEP 2

Insert Silent Anti-Rattle Hitch 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)

### STEP 3

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

### STEP 4

Tighten Silent Anti-Rattle Hitch 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 Silent Anti-Rattle Hitch Pin R-Clip through the hole that provides best clearance or easiest access. (Fig. 5)

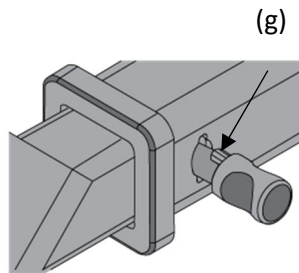
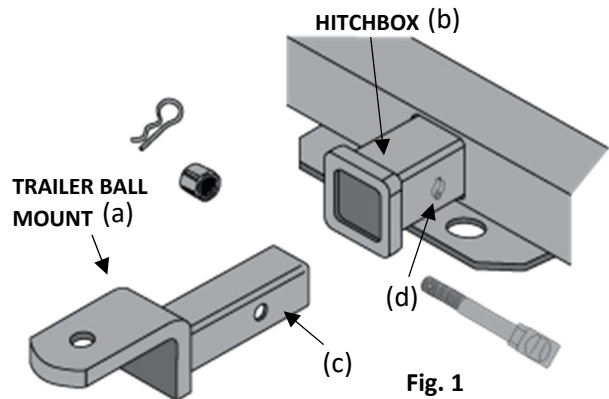


Fig. 2

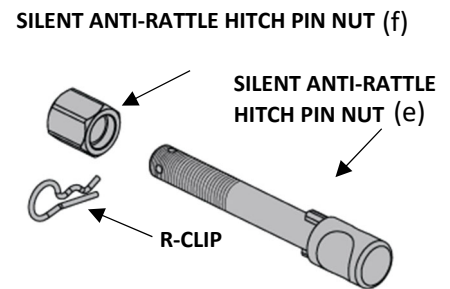


Fig. 3

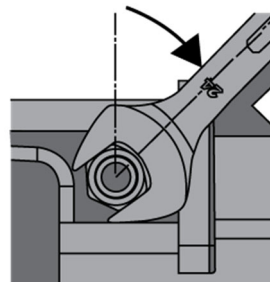


Fig. 4

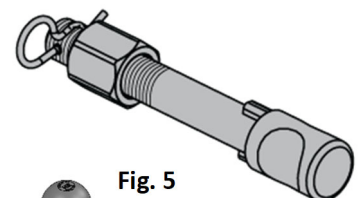


Fig. 5

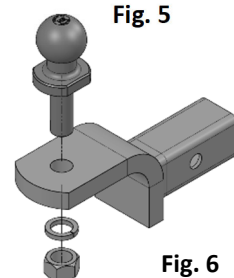


Fig. 6