

PRODUCT DETAILS:

Part Number:	QTKM42L	Maximum Towing Braked:	1100	kg
ECU Number:	WLE70034	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200mm	Maximum Static Ball Load:	75	kg
TBM/Lug Part Number:	21432			

FITTING DETAILS:

Towbar Installation Time:	90 Mins.	RPA Disable/Other:	YES
Total Installation Time:	130 Mins.		
Bumper Cut Required:	YES		

Note:

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

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

BEFORE YOU START:

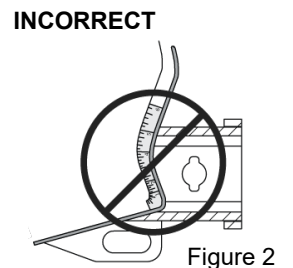
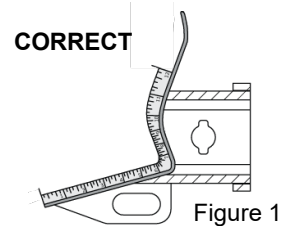
Check all hardware items have been included refer to assembly diagram.
Please ensure this towbar is only fitted to vehicle models as per Trailboss application guide.

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

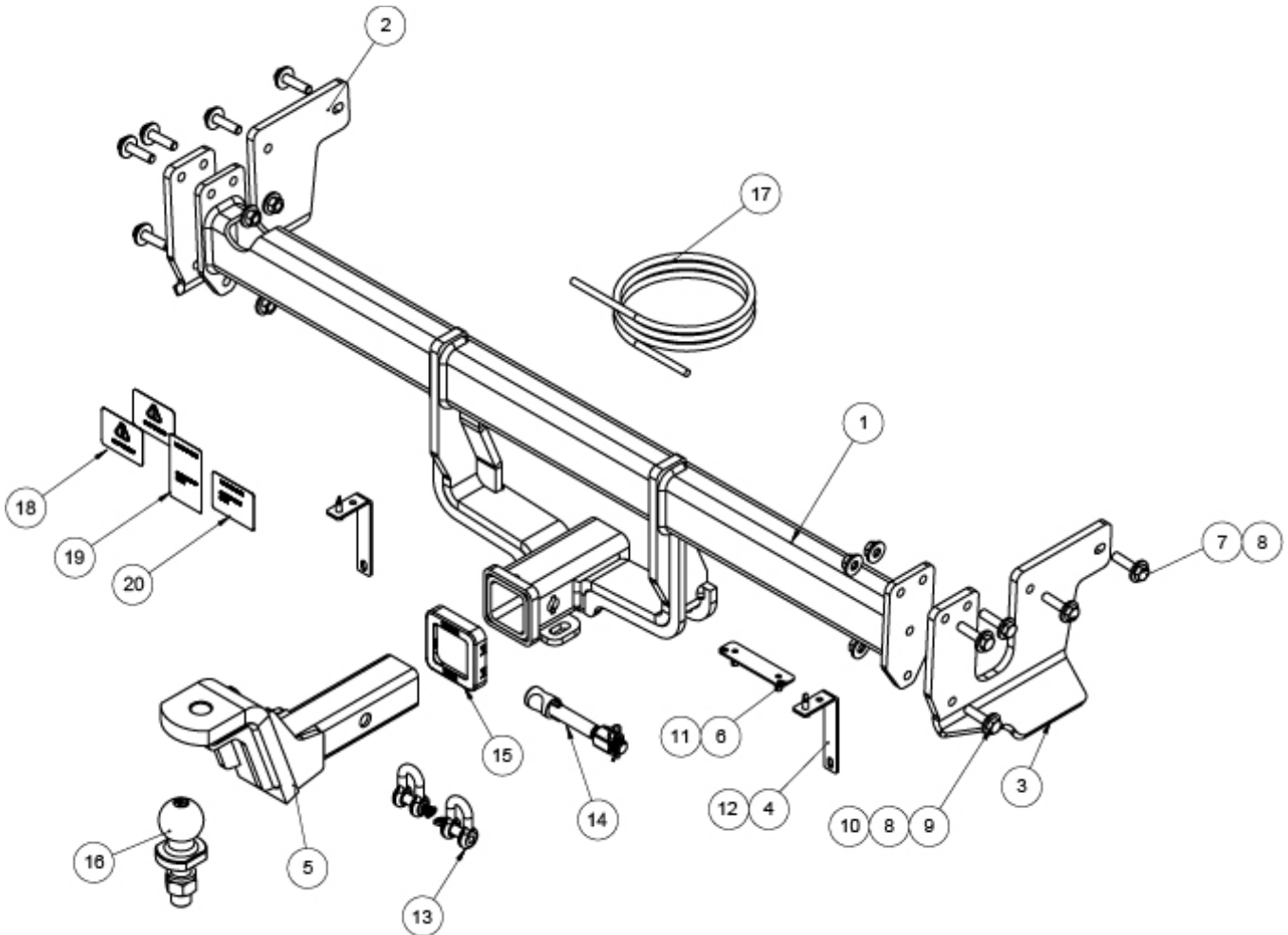
- Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.

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.

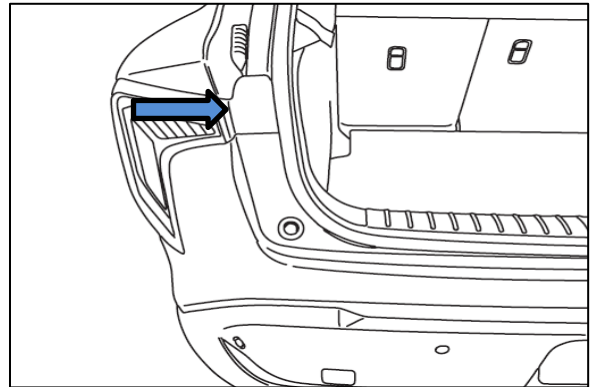
TOWBAR ASSEMBLY DIAGRAM



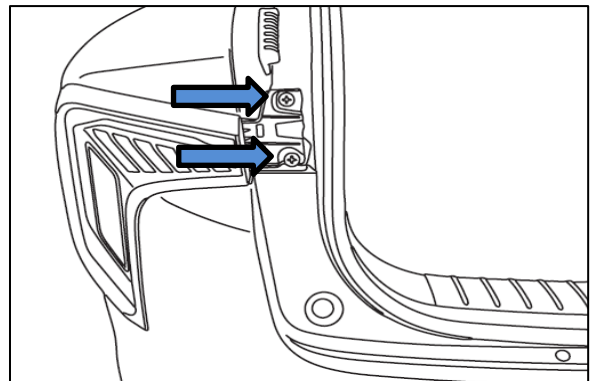
ITEM	DESCRIPTION	QTY
1	TOWBAR WELDED ASSEMBLY	1
2	SIDE PLATE LHS	1
3	SIDE PLATE RHS	1
4	BUMPER TAB BRACKET	2
5	TRAILER BALL MOUNT	1
6	PLUG BRACKET	1
7	BOLT HEX HD M10x40x1.25P G10.9	4
8	WASHER PLAIN M10x25x3.0mm	16
9	BOLT HEX HD M10x40x1.5 G8.8	6
10	NUT HEX HD M10x1.5P G8	6

ITEM	DESCRIPTION	QTY
11	NUT NYLOC HEX HD M4x0.7P G8	2
12	TEK SCREW 14-20 HEX HD 22mm	2
13	D-SHACKLE 10mm	2
14	SMART PIN SILVER	1
15	HITCH BOX COLLAR COVER	1
16	TOWBALL 50mm	1
17	WIRING LOOM	1
18	CAN MODULE WARNING LABEL	2
19	LOAD RATING LABEL	1
20	COMPLIANCE LABEL	1

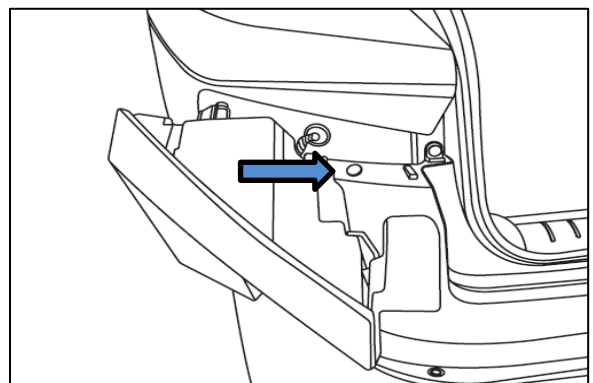
1. Open the tailgate of the vehicle.
2. Remove plastic cover.
3. Repeat on opposite side.



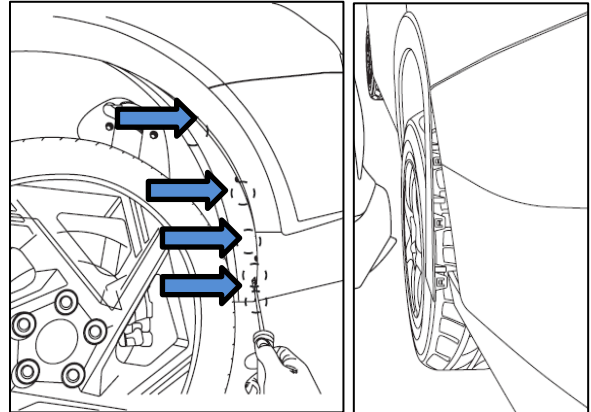
4. Remove 2 x Phillip Head Screws.
5. Repeat on opposite side.



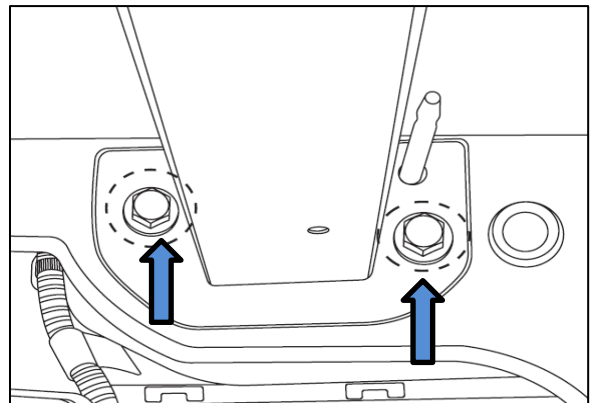
6. Carefully pull the Rear Light Assembly backwards to dislodge from the vehicle. Unclip all electrical connections before completely removing from vehicle.
7. Place the Rear Light Assembly in a safe place.
8. Remove 1 x scrivet.
9. Repeat on opposite side.



10. Remove 3 x screws and 3 x scrivenets from the rear wheel arch.
11. Ensure masking tape is placed around the wheel arch trims before gently dislodging.
12. Repeat on opposite side.

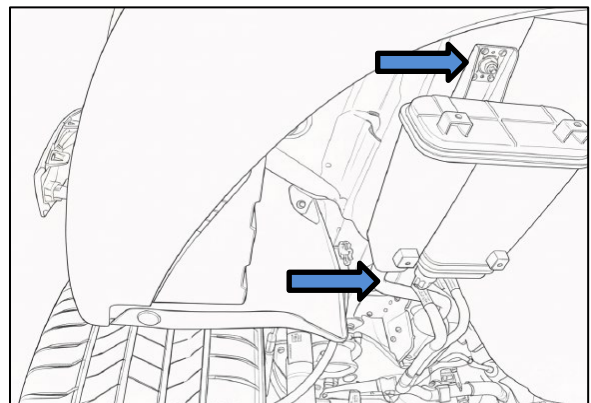


13. Remove 2 x 12mm bolts attaching the impact beam to the vehicle chassis.
14. Repeat on opposite side.

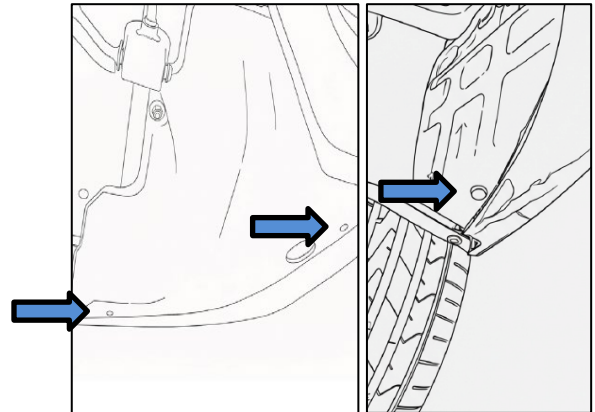


Only for NON-GT Line-

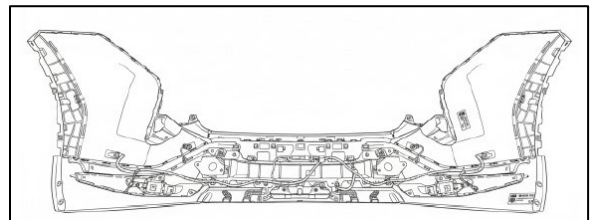
15. Remove 2 bolts attaching the Charcoal Canister.
16. Secure the Canister.



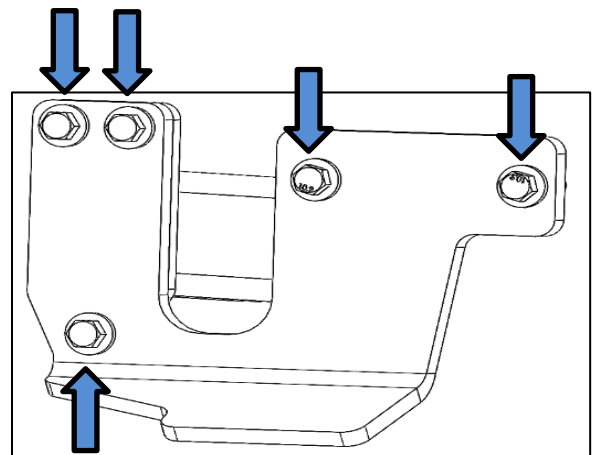
17. Remove 2 scrivets attaching the plastic trim on the LHS.
18. Remove 1 scrivet attaching the plastic trim on the RHS.



19. Disconnect the wiring connector located near the LHS chassis rail at the rear of the vehicle.
20. Using two people, carefully dislodge the rear bumper assembly and place on a stand in a safe area.

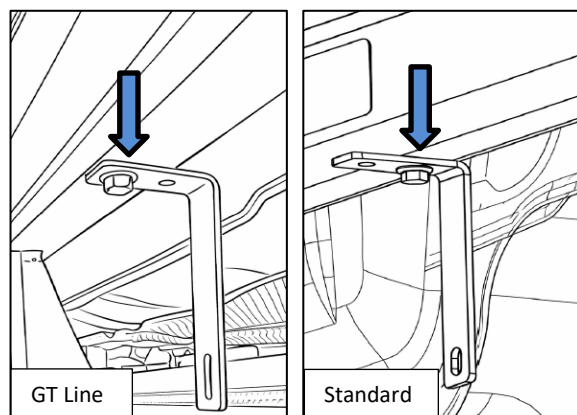


21. Fit Side arms onto the vehicle chassis and secure to vehicle using 2 x M10x40 bolts and 2 x M10 washers per side.
22. Fit Towbar and secure to vehicle using 3 x M10x40x1.5p Bolts, 3 x M10 Nuts and 6 x M10 Washers.
23. Ensure the towbar is square to vehicle and torque fasteners as bellow:
M10x1.25: 68Nm
M10x1.5: 44Nm

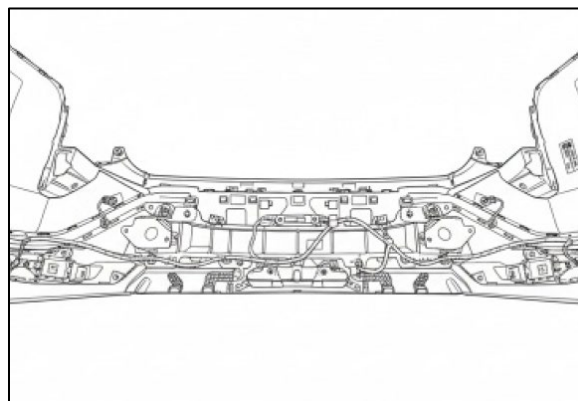


24. Fit the 2 tabs, with the self-tapping screws to the towbar.

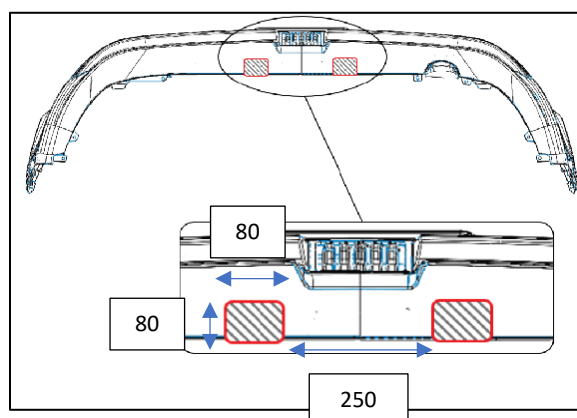
Note: Use the rearward most hole for the GT line, the forwards most hole for the standard.



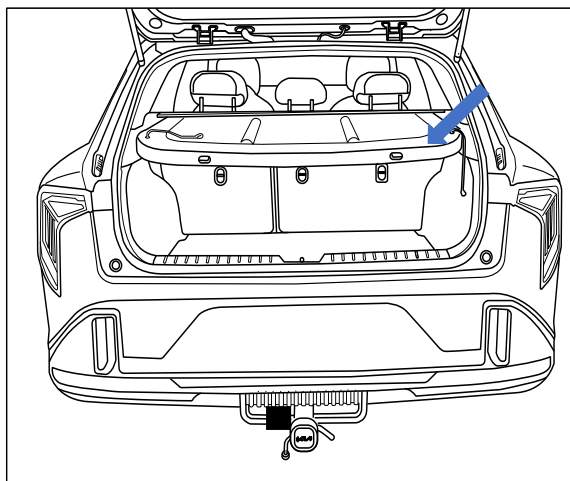
25. Remove the wiring harness and key antenna from the impact beam carefully using a trim removal tool.
26. Remove and discard the impact beam from the rear bumper assembly.



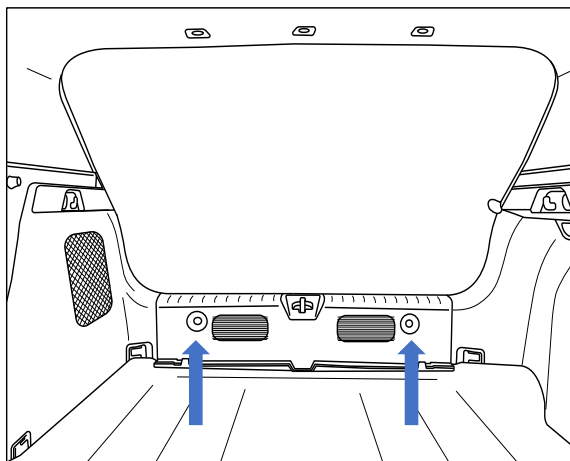
27. Drill and cut the bumper as shown.
28. Drill 2x $\varnothing 5\text{mm}$ holes 69mm apart on the left side of the bumper cut for the plug bracket. Remove all swarf and rough edges.
29. Locate the plug bracket and ensure the harness cable length is long enough.



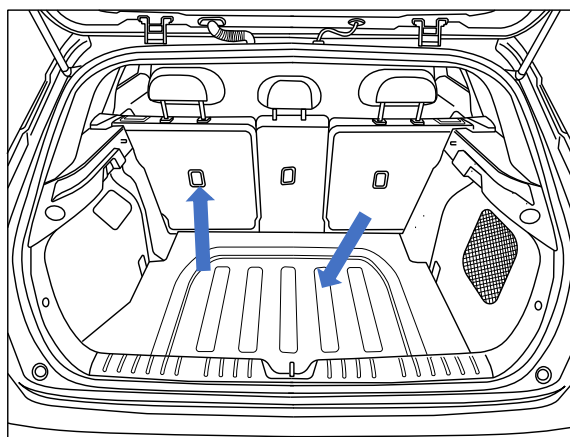
30. Disconnect battery terminals before commencing any electrical work.
31. Remove rear parcel tray.



32. Use a trim tool to remove the two trim scrivenets and along the rear scuff trim to remove from the vehicle.

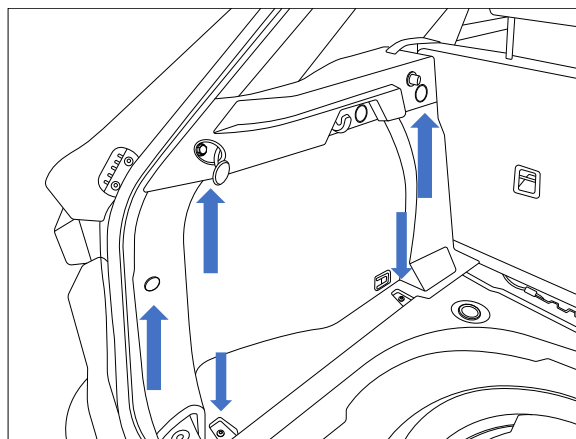


33. Remove the floor carpet. Fold down the LHS rear seat.

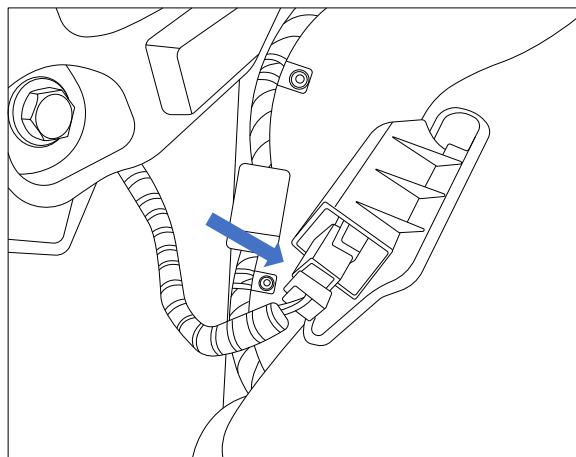


34. Use a flathead screwdriver to open the two bolt covers on the rear LHS upper cargo trim. Use a 10mm socket to remove the M6 Bolts.

Use a trim tool to remove the scrivet.
Use a T20 Torx to remove the 2 trim bolts.

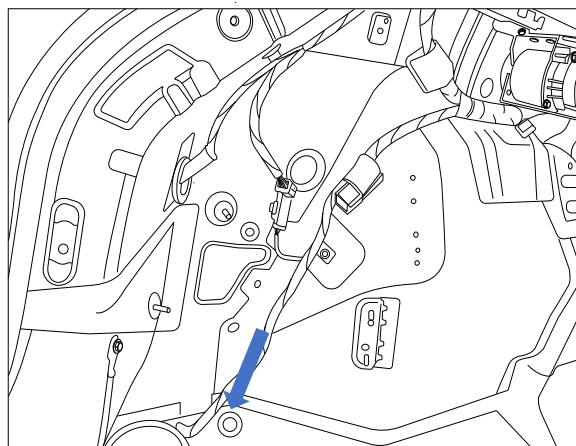


35. As you take the rear LHS bottom trim off, disconnect the rear LHS cargo light. Remove the rear LHS upper and lower trim.



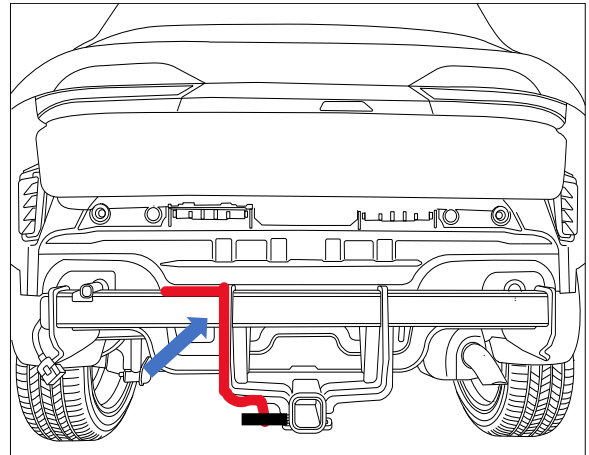
36. Locate the blanking grommet. Using a step drill, drill this hole to exactly $\varnothing$ 30mm.

Note: Spray Rust Inhibitor on the edges of this hole and clean up any sharp edges.

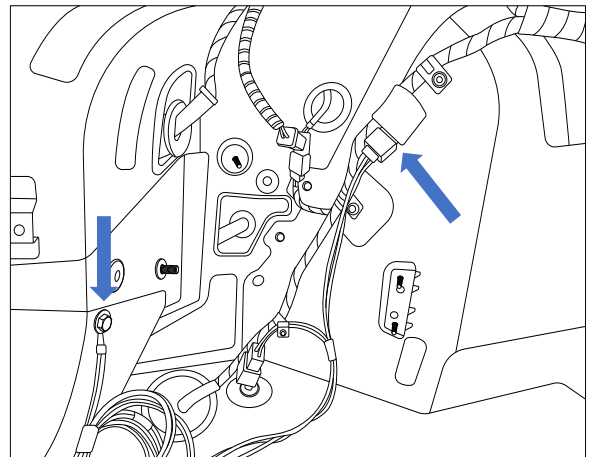


37. Feed tail harness blue connector through the hole, ensuring enough slack for the trailer socket to be mounted.

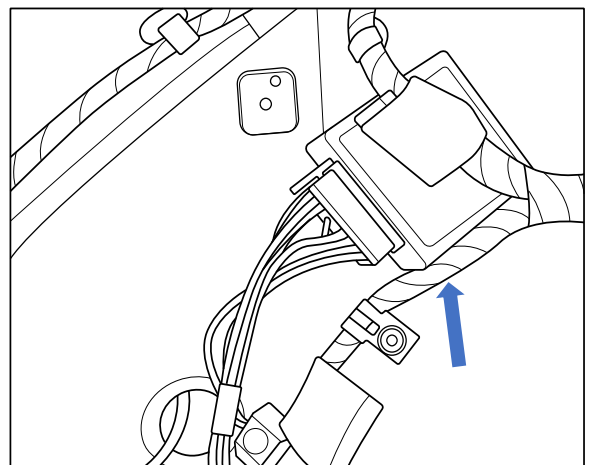
Slide the grommet to desired location and secure to the loom with a cable tie (not supplied).



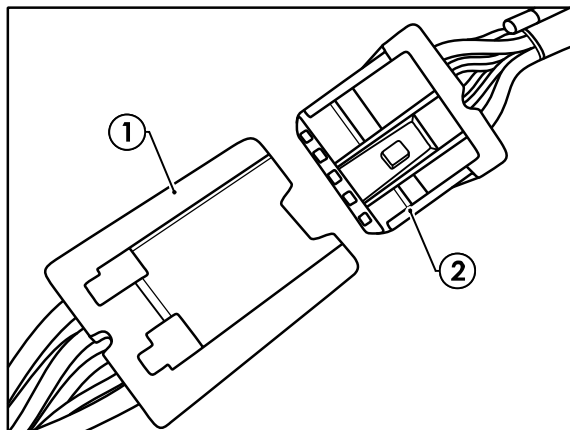
38. Locate the trailer patch ground ring terminal. Secure this to the vehicle ground point.
39. Locate the 8-way pre-wire connector. Plug this into the trailer patch mating connector.



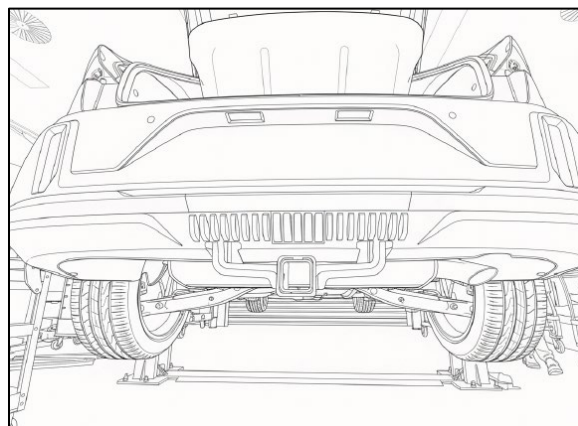
40. Connect the ECU to the trailer patch and secure in the location mount. Use the tape provided and apply pressure to allow for good adhesion.



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



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43. Re-fit the rear bumper to vehicle.
 44. Re-fit the components back on the vehicle by following steps 1-42 in reverse.
 45. Test trailer harness function using a trailer test board.
 46. Place fitting instructions in glove box once completed.





CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE
VEHICLE'S GLOVEBOX AFTER INSTALLATION

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

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 (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)

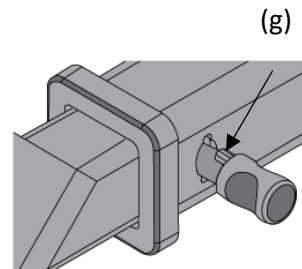
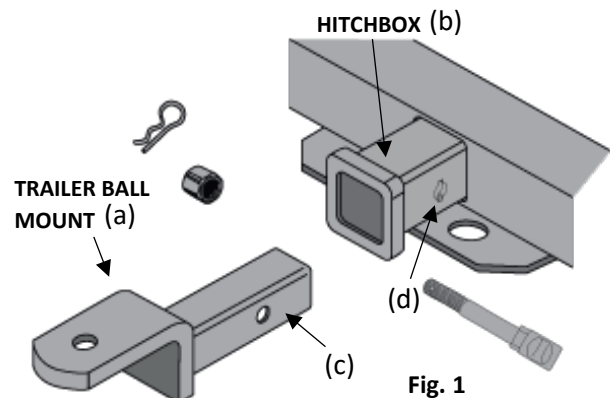


Fig. 2

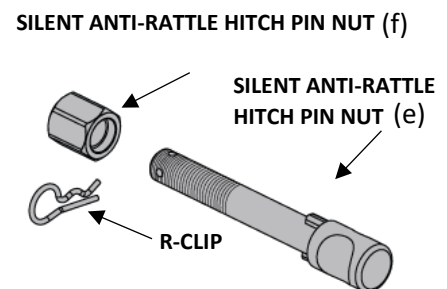


Fig. 3

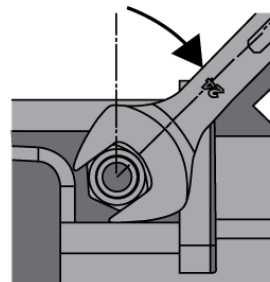


Fig. 4

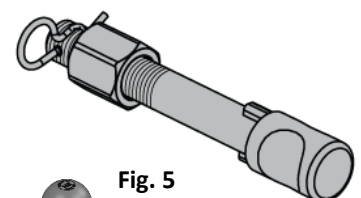


Fig. 5

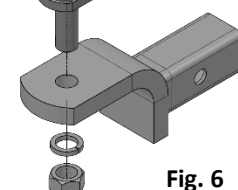


Fig. 6