

PRODUCT DETAILS:

Part Number:	QTHY269L	Maximum Towing Braked:	1600	kg
ECU Number:	04826	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200 mm.	Maximum Static Ball Load:	140	kg
TBM/Lug Part Number:	21148			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	RPA Disable/Other:	YES
Total Installation Time:	110 Mins.	Note:	
Bumper Cut Required:	Yes	<ul style="list-style-type: none">• Electric Brake Input Location: Near access grommet• Use Tail 04936 and follow instruction to enable automatic RPA disable when towing	

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

BEFORE YOU START:

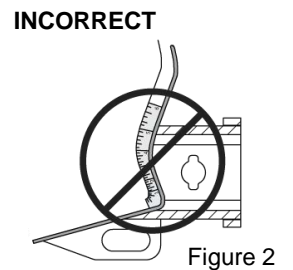
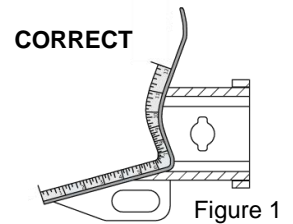
Check all hardware items have been included refer to assembly diagram.
Please ensure this towbar is only fitted to vehicle models as per Trailboss application guide.

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

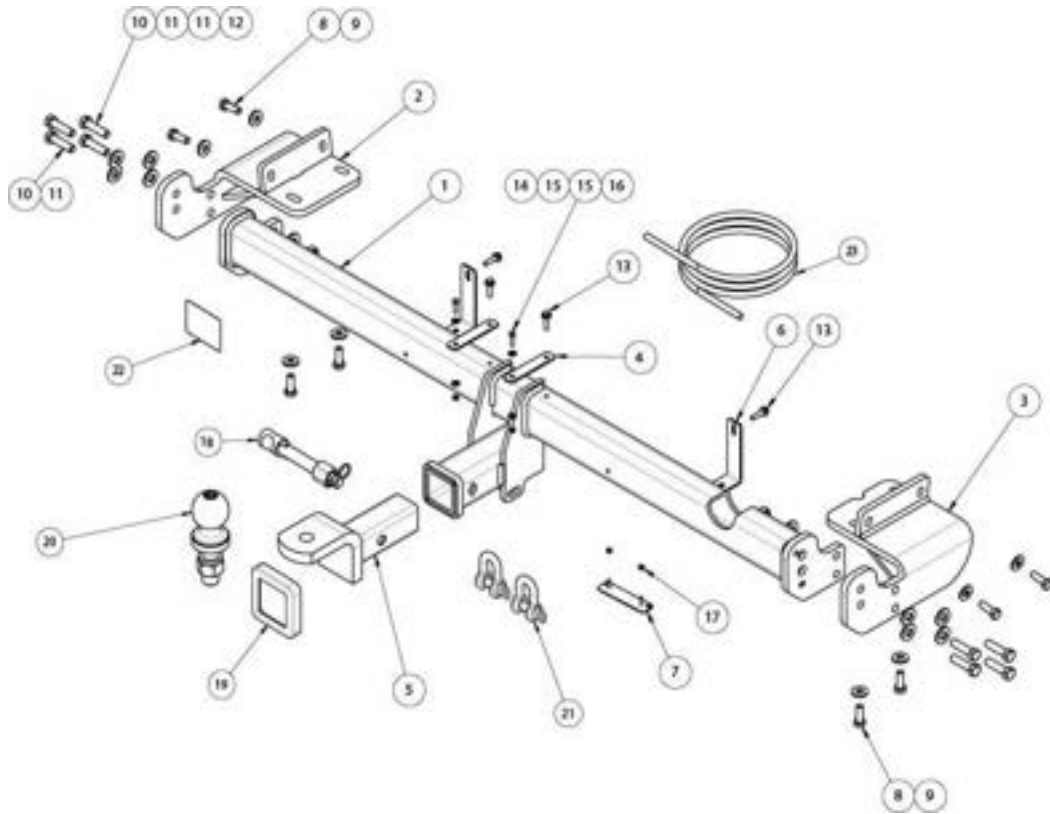
- a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.

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

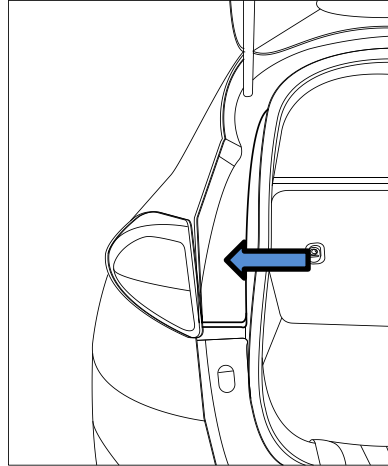


ITEM	DESCRIPTION	QTY
1	WELDED CENTRE ASSEMBLY	1
2	LHS SIDEARM ASSY	1
3	RHS SIDEARM ASSY	1
4	SMART KEY ANTENNA BRACKET	2
5	TRAILER BALL MOUNT	1
6	BUMPER TAB BRACKET	2
7	PLUG BRACKET	1
8	SET SCREW HEX HD M10x30x1.25P	8
9	WASHER PLAIN M10	8
10	SET SCREW HEX HD M12x45x1.25P	8
11	WASHER PLAIN M12	12
12	NUT HEX M12x1.25P	4

ITEM	DESCRIPTION	QTY
13	TEK SCREW 14-20 HEX HD 22mm	4
14	SET SCREW HEX HD M5x20x0.8P	2
15	WASHER PLAIN M6	4
16	NUT NYLON INS LOCK HEX M5X0.8P	2
17	NUT NYLON LOCK HEX M4x0.7P	2
18	SILENT HITCH PIN – SILVER	1
19	HITCH BOX COLLAR COVER	1
20	TOWBALL 50mm	1
21	"D" SHACKLE 10mm	2
22	ACRYLIC COMPLIANCE LABEL	1
23	WIRING LOOM	1

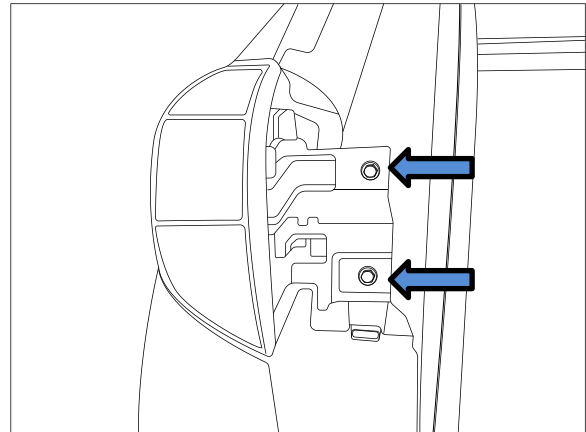
1. Remove plastic trim cover adjacent to taillight assembly.

Repeat for opposite side of vehicle.



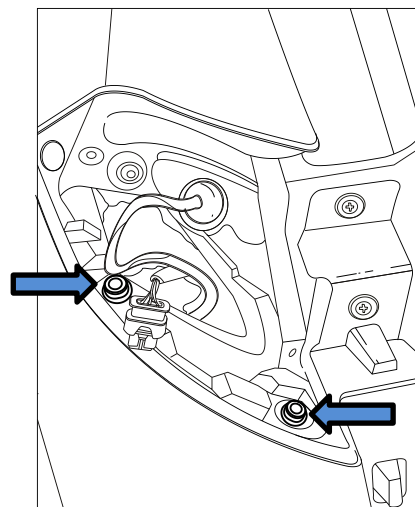
2. Remove 2 x Screws securing taillights to vehicle.
Remove taillight assembly.

Repeat for opposite side of vehicle.



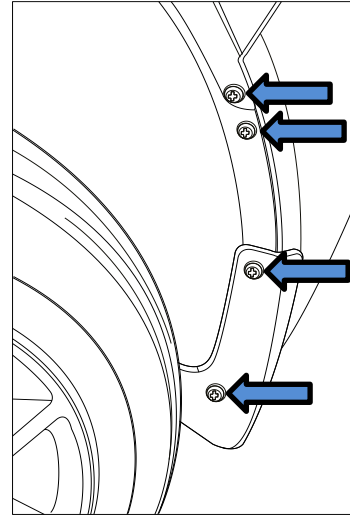
3. Remove 2 x push Rivets from taillight cavity.

Repeat for opposite side of vehicle.



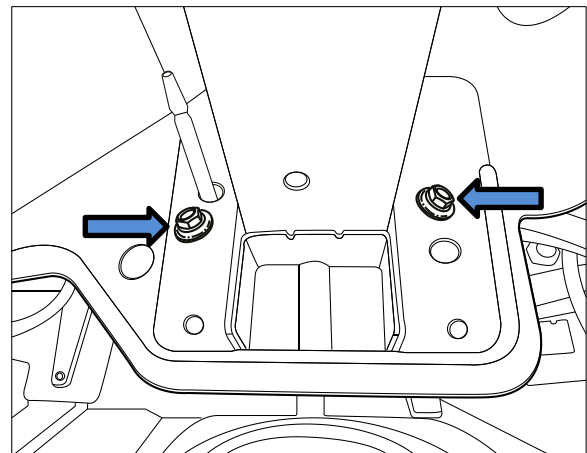
4. Remove 3 x Screws and 1 x bolt within rear wheel arch.

Repeat for opposite side of vehicle.



5. Remove 2 x Screws adjacent to chassis rail, securing rear impact beam to rear the panel.

Repeat for opposite side of vehicle.



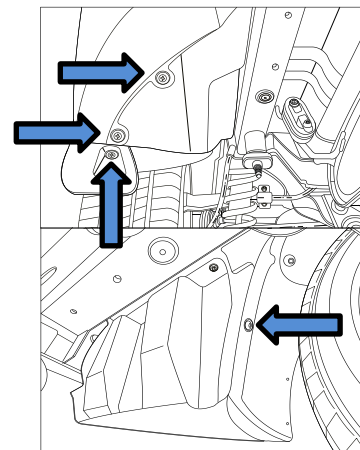
6. Remove 3 x push Rivets under vehicle behind rear wheel arch and 1x push Rivet from within rear wheel arch.

Repeat for opposite side of vehicle.

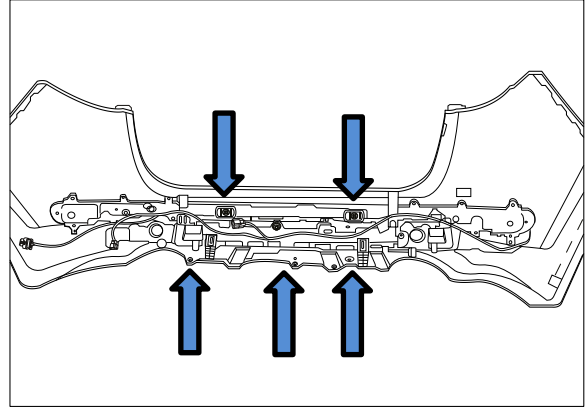
7. Remove plastic undertray from behind rear wheel arch.

Repeat for opposite side of vehicle.

8. Carefully unclip and remove rear bumper; disconnecting any applicable wiring looms.

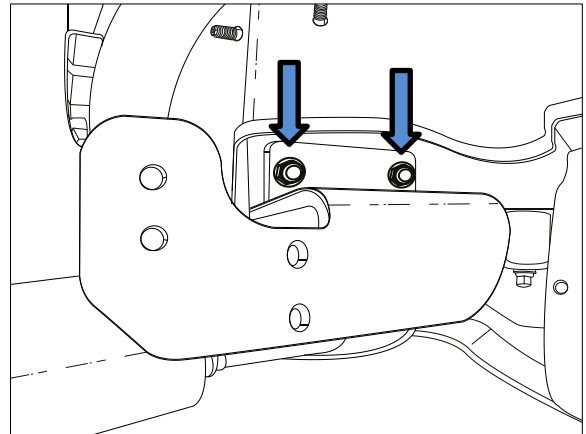


9. Remove 3 x push Rivets securing impact beam bumper tabs to bumper.
10. Remove 2 x clips securing top of impact beam to bumper.
11. Where applicable, release smart key antenna from impact beam.
12. Detach wiring from impact beam and remove and discard impact beam from rear bumper.



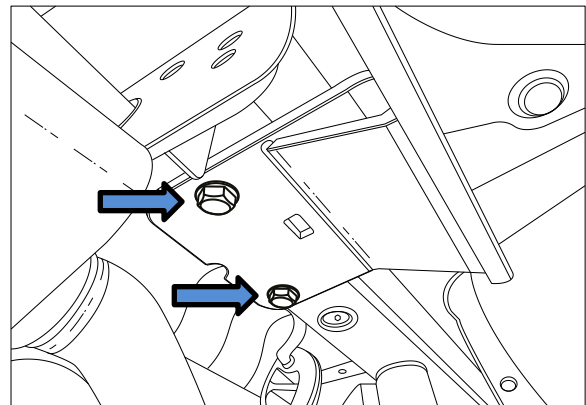
13. Loosely secure sidearm to side face of chassis rail using 2 x M10 bolts, complete with 1x flat Washer per bolt.

Repeat for opposite side of vehicle.



14. Loosely secure sidearm to underside of chassis rail using 2 x M10 bolts, complete with 1x flat washer per bolt.

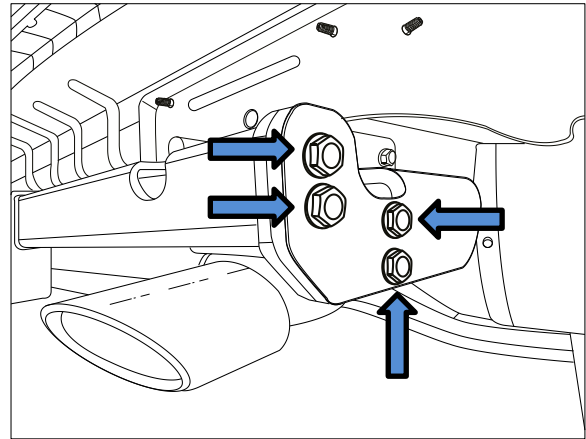
Repeat for opposite side of vehicle.



15. Loosely secure welded assembly to sidearms using 4 x M12 Bolts per side arm, complete with 2 x flat washer and 1 x M12 Nut per 2 of the bolts, and 1 x flat Washer per the remaining 2 bolts.

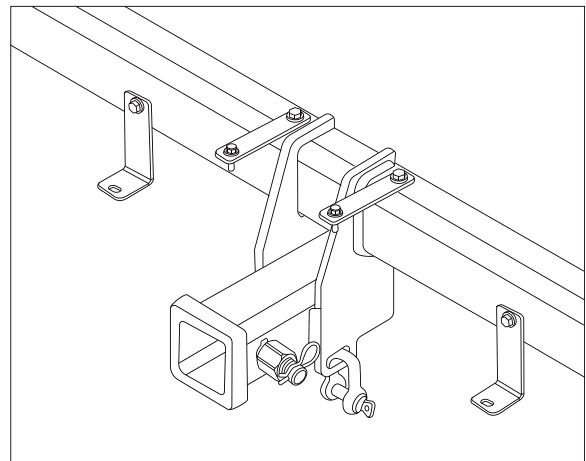
16. Position the bar and torque all fasteners as follows:

M10 GR 8.8 : 48Nm
M12 GR 10.9 : 125Nm

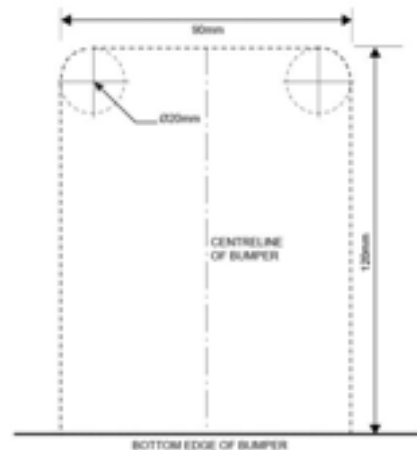


17. Where required, secure smart key antenna brackets to holes in top of towbar using Tek Screws.

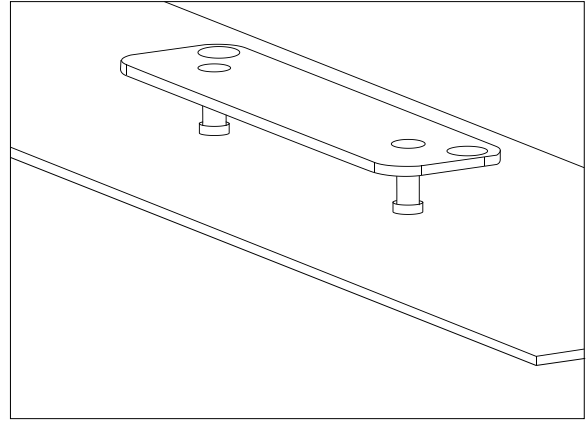
18. Secure bumper tab brackets in holes on rear face of towbar using Tek screws.



19. Identify centre of bumper and create bumper cut as per diagram shown.



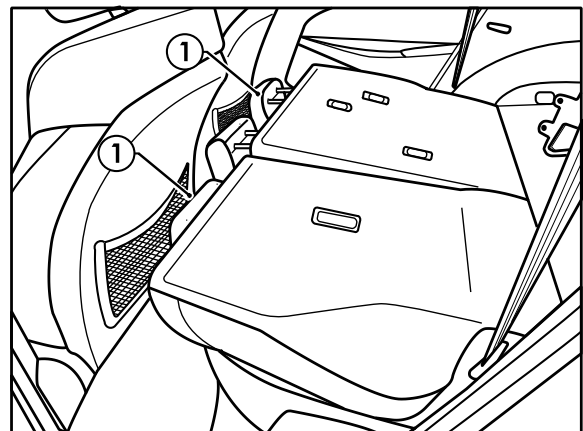
-
20. Mark out and drill 2x \varnothing 5mm holes 69mm apart on bumper skin to support plug bracket. Feed bracket threads through drilled holes prior to reinstalling bumper.



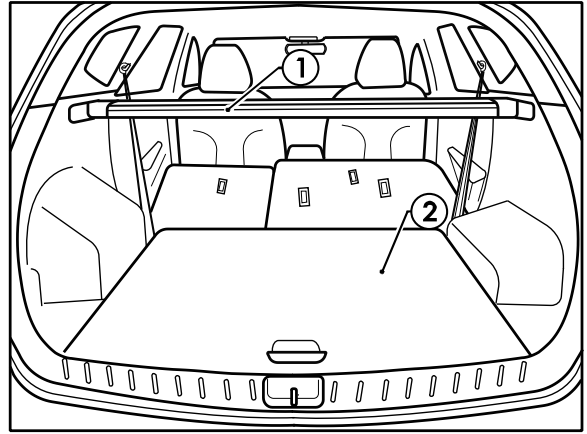
IMPORTANT

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.

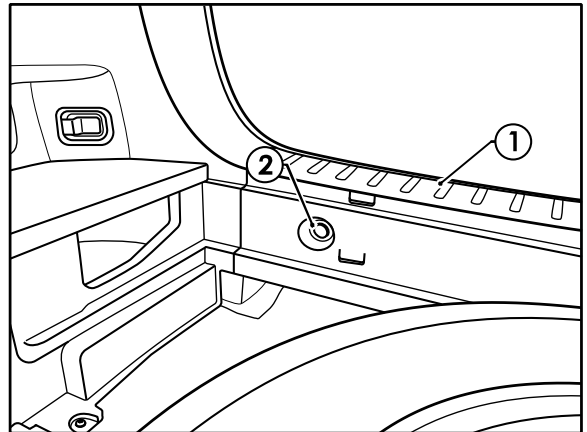
-
21. Fold down the rear passenger seats (1).



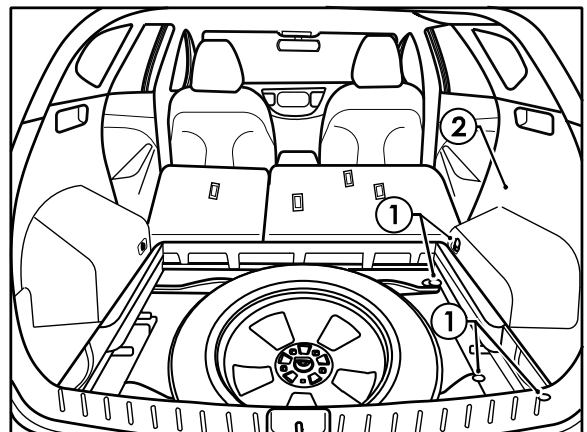
22. Remove the rear sunshade (1).
23. Remove the luggage compartment floor (2).
24. Remove the car jack.



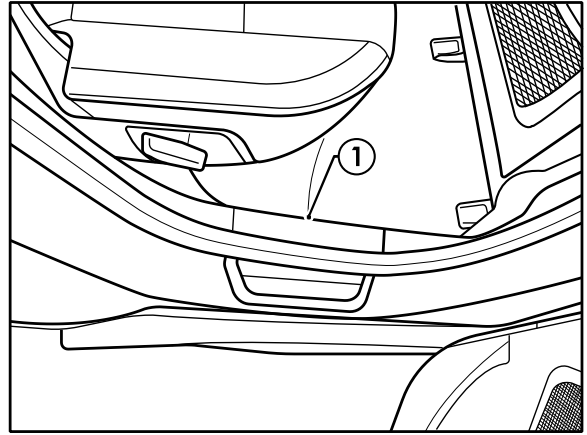
25. Remove the rear scuff trim (1) by first removing the two fasteners (2).



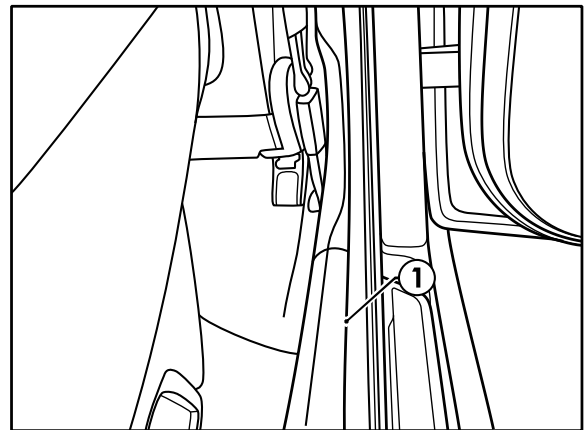
26. Remove the four fasteners (1) from the RHS luggage compartment trim (2) and then dislodge the luggage compartment trim.



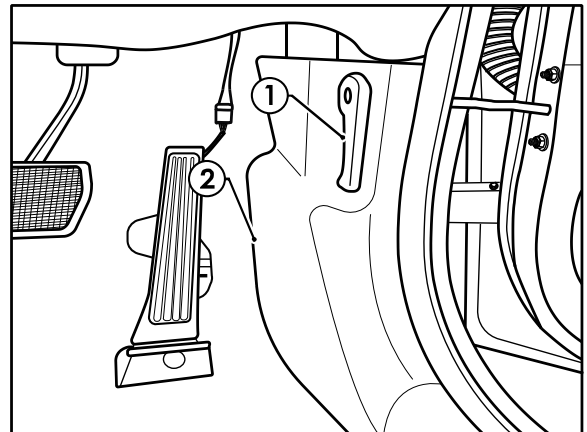
27. Remove rear passenger RHS kick trim (1).



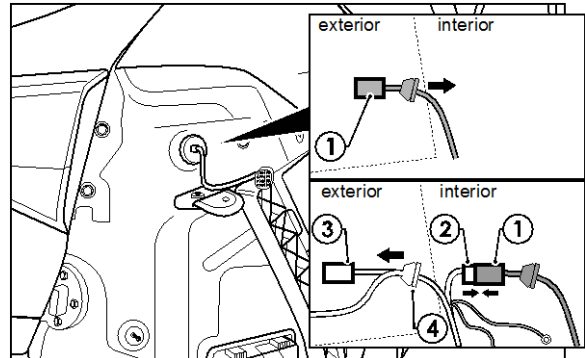
28. Remove the driver's door sill trim (1).



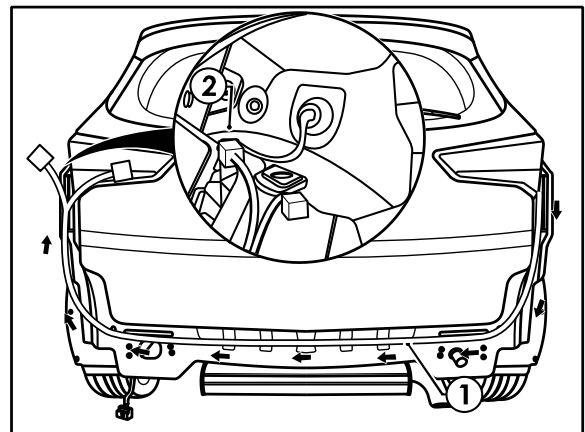
29. Remove the bonnet handle (1) and then remove the driver's kick panel trim (2).



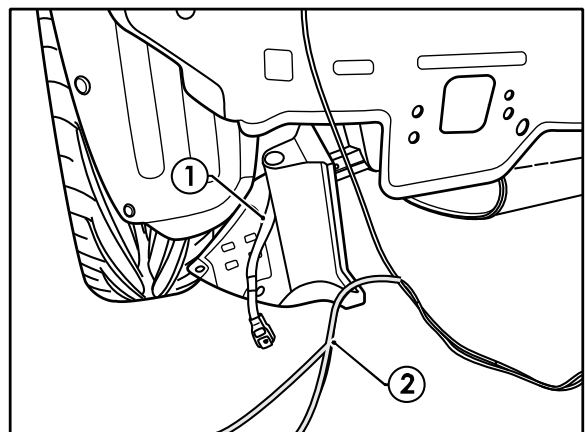
30. From the vehicle interior, retrieve the vehicle RHS taillight connector **(1)**.
31. Route the trailer patch (P/No:102237-WL) connectors to the retrieved RHS taillight connector **(1)** and connect to the mating trailer patch connector **(2)**.
32. Route the remaining trailer patch connector **(3)** through the vehicle grommet hole until the trailer patch grommet **(4)** is seated correctly.



33. Route the trailer patch LHS branch **(1)** towards the LHS vehicle taillight area and then connect the trailer patch connector to the mating vehicle harness taillight connector **(2)**.



34. At the bumper connector, locate the RPA ground wire **(1)**.
35. Remove 200mm of covering and cut the ground wire.
36. Cut and crimp the GREY & GREY/BLACK wires on the trailer patch in between the ground wire **(2)**.
37. Tape up the covering and secure trailer patch to existing vehicle wiring using Cable Ties.

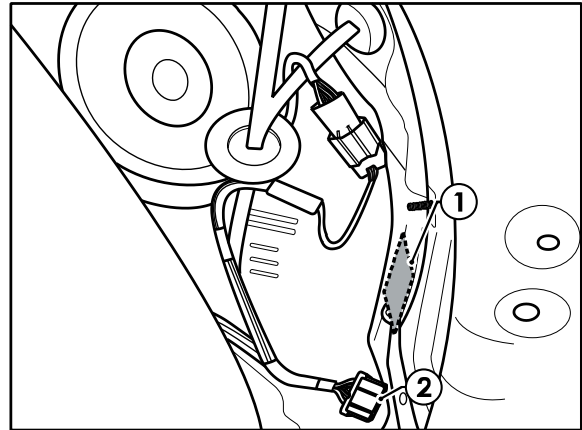


38. Inside the vehicle, pickup the trailer patch on the RHS, using an alcohol wipe, clean the RHS inner sheet metal area **(1)** and the underside of the ECU (04826).

39. Connect the trailer patch 12-way connector **(2)** to the ECU.

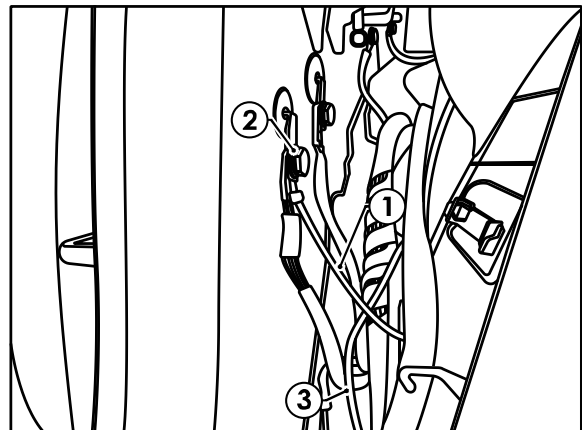
40. Apply double sided tape to the ECU and secure it to the vehicle sheet metal.

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



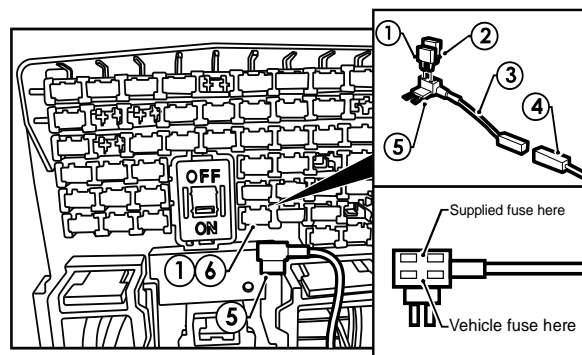
41. At the C-pillar trim, secure the trailer patch ground ring terminal **(1)** to the vehicle stud **(2)**.

42. Route the trailer patch 1-way connector **(3)** along the vehicle harness, all the way towards the driver's fuse panel area.



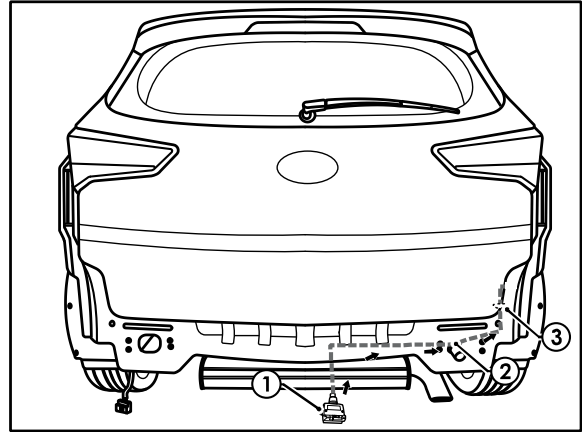
43. Remove the indicated vehicle 30A fuse **(1)**. Insert the vehicle fuse 30A fuse **(1)** and the supplied 20A fuse **(2)** to the add-a-fuse harness **(3)**. Connect the trailer patch 1-way connector **(4)** to the add-a-fuse harness **(3)**. Insert the add-a-fuse harness **(5)** to the previously removed fuse location **(6)**.

Ensure the add-a-fuse harness is orientated as shown.



44. Secure tail harness to towbar

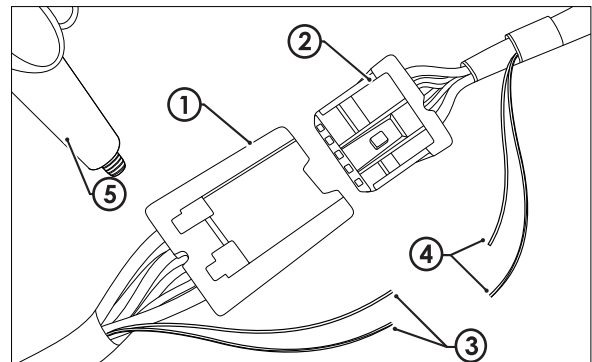
45. Route the tail harness (tail length: 1200mm) **(2)** across the RHS and towards the blue connector near the RHS taillight.



46. Connect the tail harness 8-way connector **(1)** to the trailer patch 8-way mating connector **(2)**.

47. To enable RPA cut-off, crimp the tail harness GREY and GREY/BLACK wires **(3)** to the trailer patch matching GREY and GREY/BLACK wires **(4)**.

48. Apply silicone grease **(5)** to waterproof connector.



49. Re-fit taillights. Test the trailer patch function using a light board or multi-meter.

50. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.

51. Re-fit rear bumper by following steps 1 to 4 and 6 to 8 in reverse order.

52. Where applicable, secure smart key antenna to smart key antenna brackets.

53. Secure loose wiring to towbar using cable ties.

54. 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 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)

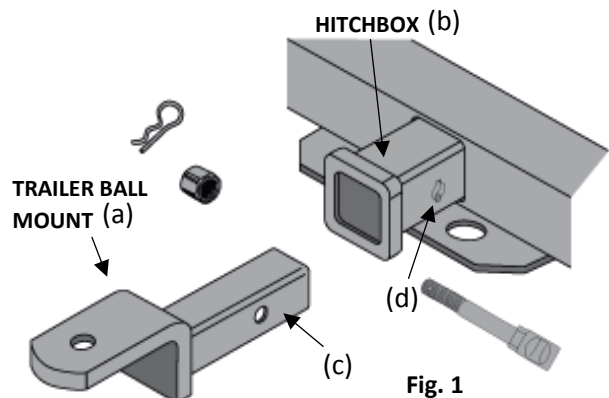


Fig. 1

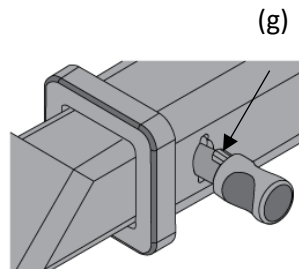


Fig. 2

SILENT ANTI-RATTLE HITCH PIN NUT (f)

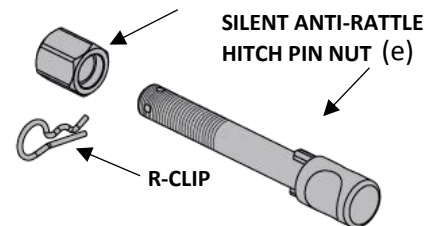


Fig. 3

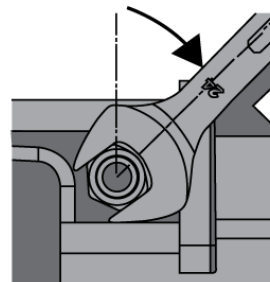


Fig. 4

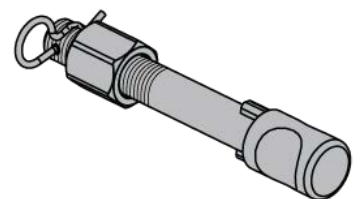


Fig. 5