

PRODUCT DETAILS:

Part Number:	QTFT3L	Maximum Towing Braked:	3500	kg
ECU Number:	N/A	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200mm	Maximum Static Ball Load:	350	kg
TBM/Lug Part Number:	21325			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	RPA Disable/Other:	YES
Total Installation Time:	80 Mins.		
Bumper Cut Required:	Yes		

Note:

- "Trailer Mode "must be enable via infotainment for Trailer light functionality.
- 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).

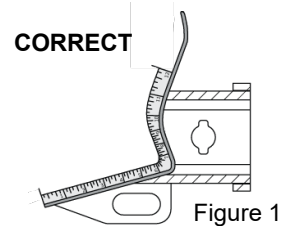


Figure 1

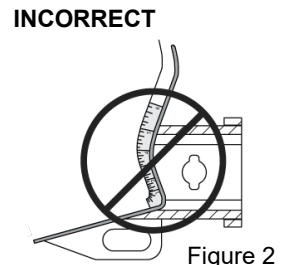


Figure 2

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

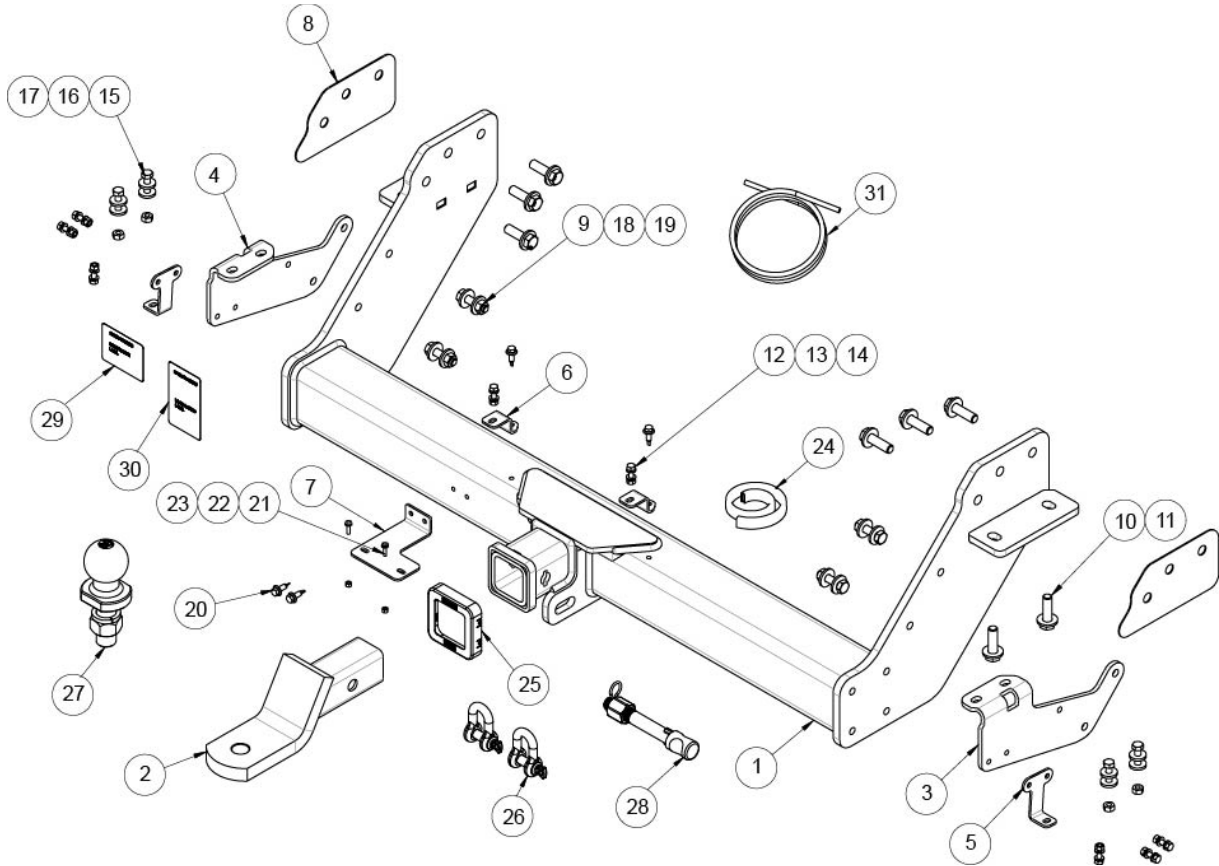
- a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.

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.

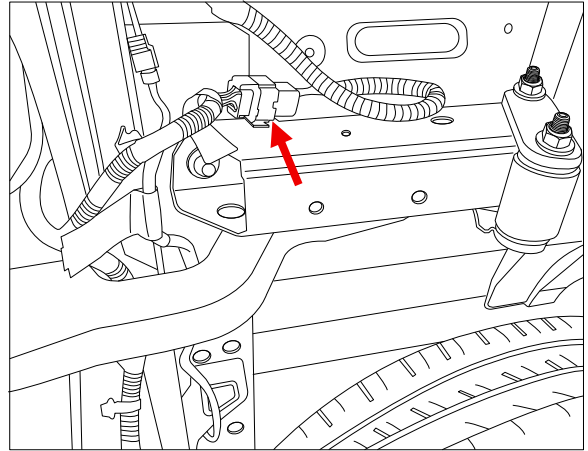
TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	FOTON TUNLAND V9 WELDED BAR	1
2	TRAILER BALL MOUNT	1
3	STEP BRK RHS	1
4	STEP BRK LHS	1
5	BUMPER TAB	2
6	BUMPER BRACKET	2
7	PLUG BRACKET	1
8	SPACER	2
9	NUT HEX HD M10x1.5P G8	4
10	SCREW HEX HD M12x40x1.25P G8.8	10
11	WASHER PLAIN M12x27x3.0mm	10
12	SCREW HEX HD M6x20x1.0P G8.8	8
13	NUT HEX HD M6x1.0P G8	8
14	WASHER PLAIN M6x12.5x1.2mm	16
15	SCREW HEX HD M8x25x1.25P G8.8	4
16	WASHER PLAIN M8x22x3.0mm	8

ITEM	DESCRIPTION	QTY
17	NUT HEX HD M8x1.25P G8	4
18	BOLT HEX HD M10x40x1.5P G8.8	4
19	WASHER PLAIN M10x25x3.0mm	8
20	TEK SCREW 14-20 HEX HD 22mm	4
21	SCREW PAN HD M4x16x0.7P G4.6	2
22	NUT NYLOC HEX HD M4x0.7P G8	2
23	WASHER PLAIN M4x9.0x0.7mm	2
24	BUMPER TRIM PINCH WELD 290 mm	1
25	HITCH BOX COLLAR COVER	1
26	D-SHACKLE 10mm	2
27	TOWBALL 50mm	1
28	SMART PIN SILVER	1
29	COMPLIANCE LABEL	1
30	LOAD RATING LABE	1
31	WIRING LOOM	1

1. Raise the vehicle to working height.
2. On the driver side, disconnect the bumper harness.



3. On the driver side, remove and discard 5x bolts

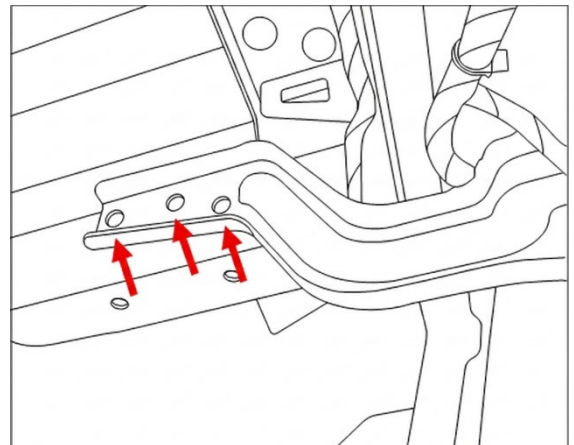
Repeat for LHS.

Tools Used:

- Ratchet.
- 15mm socket.

NOTE:

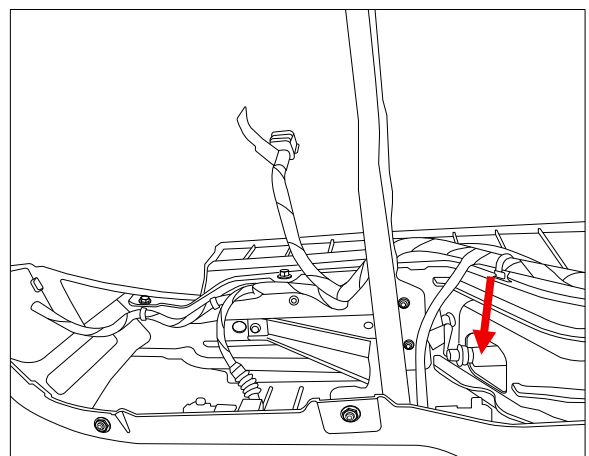
Removing the bumper requires two people.



4. Remove the bumper from the vehicle and place it on a stand.

Remove the light socket from the housing.

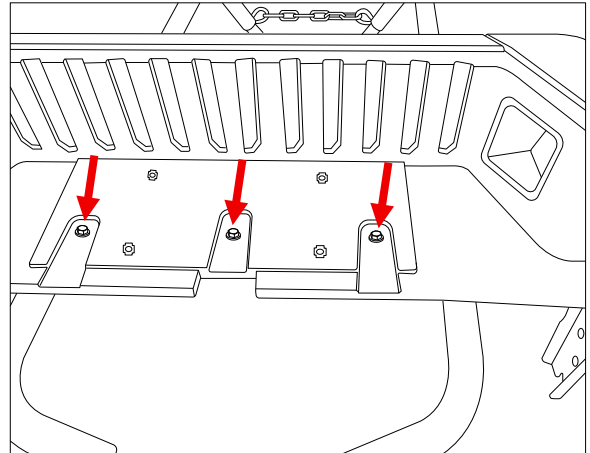
Repeat for the other side.



5. Remove and retain 3x screws.

Tools Used:

- Ratchet.
- 8mm socket.

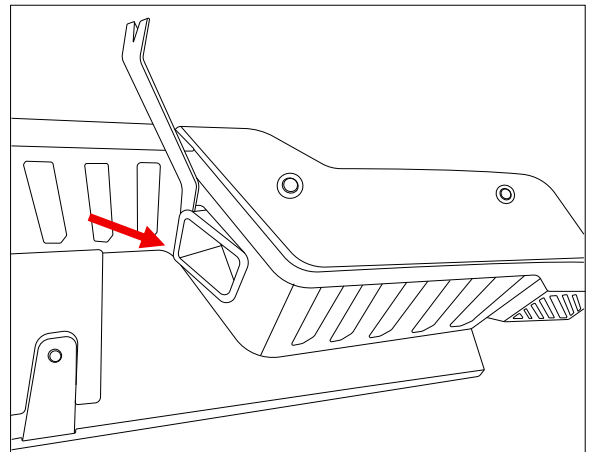


6. Remove the light house from the bumper.

Repeat for the other side.

Tools Used:

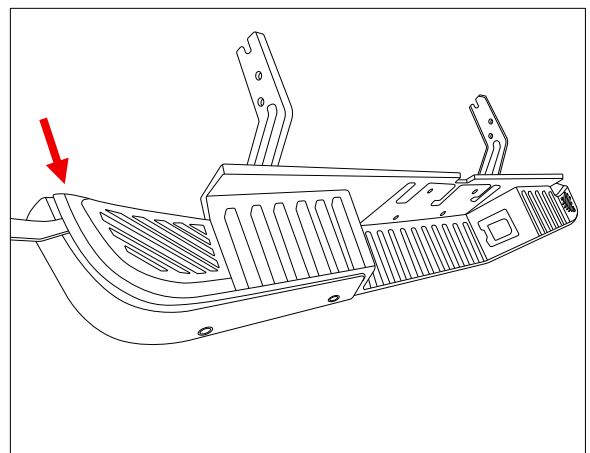
- Trim tool.



7. Unclip the plastic step cover from the bumper.

Tools Used:

- Trim tool.

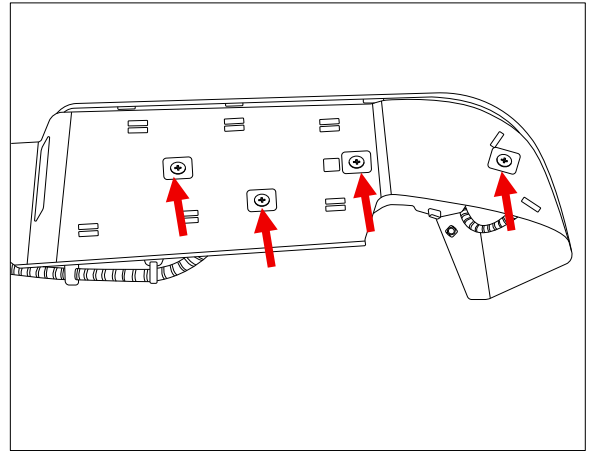


8. Remove and retain 4x screws from the side bumper.

Repeat for the other side.

Tools Used:

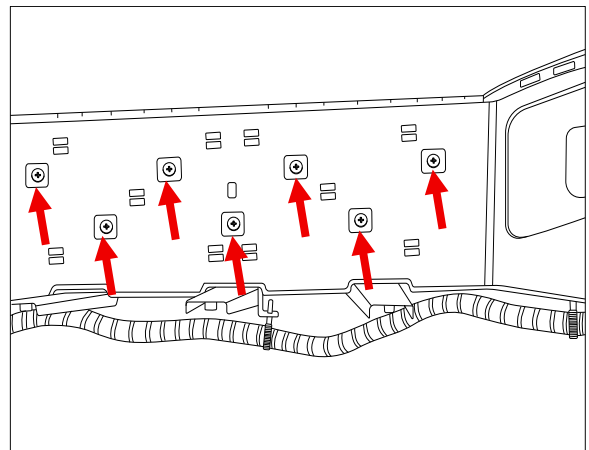
- PH3 screwdriver.



9. Remove and retain 7x screws from the middle of the bumper.

Tools Used:

- PH3 screwdriver.

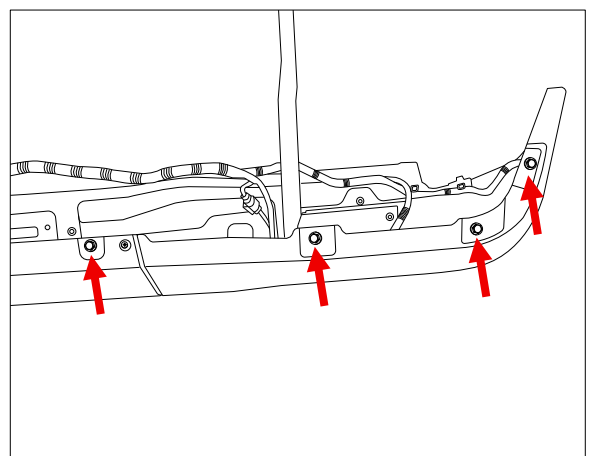


10. Remove and retain 4x screws.

Repeat for the other side.

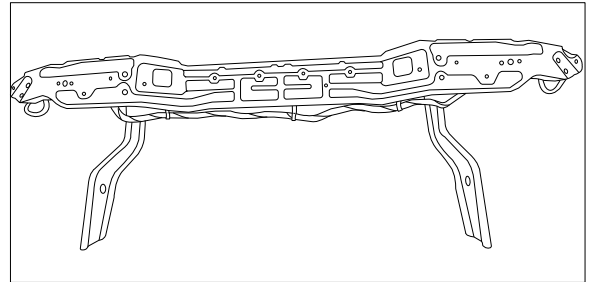
Tools Used:

- Ratchet.
- 8mm socket.



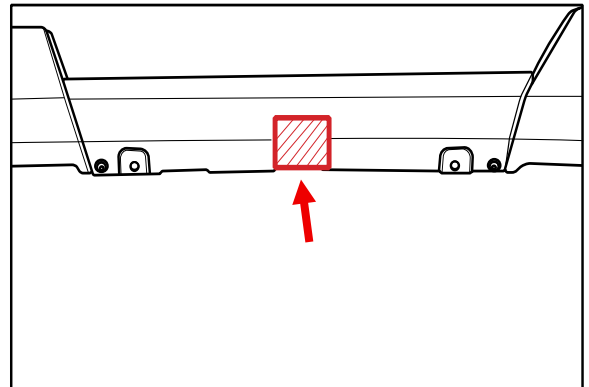
11. Unclip all the parking sensors from the plastic bumper.

Remove the plastic bumper from the bumper frame.



12. Refer to bumper cut template dimensions, mark and cut out the area to clear the hitch box.

File the edge and fit a pinch weld around the cut area.

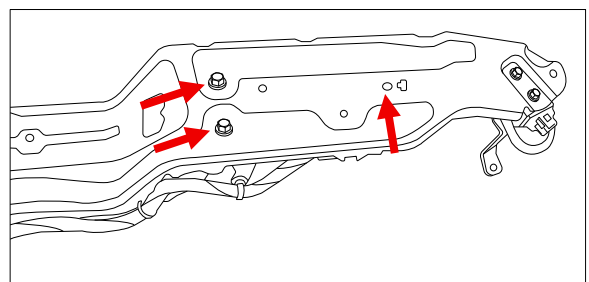


13. Remove 3x screws from the bumper frame and discard the bumper bracket.

Repeat for the other side.

Tools Used:

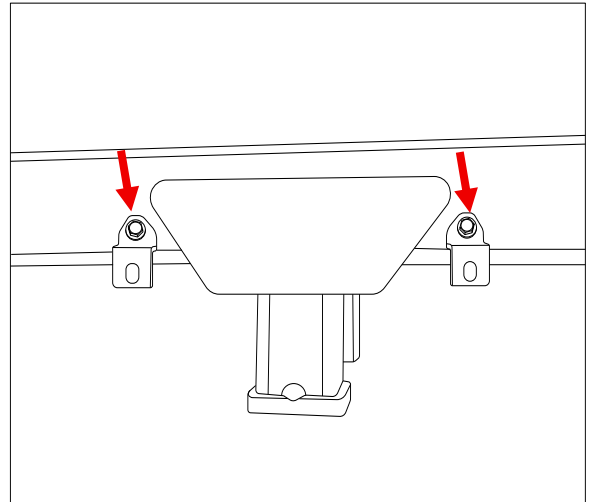
- Ratchet.
- 10mm socket.
- PH3 screwdriver.



14. Fit the bumper bracket to the tow bar and secure it with 2x Tek screws.

Tools Used:

- Driver.
- 10mm socket.



15. Place the tow bar to vehicle chassis.

Loosely secure it with 2x M12x1.25 bolts and 2x washers.

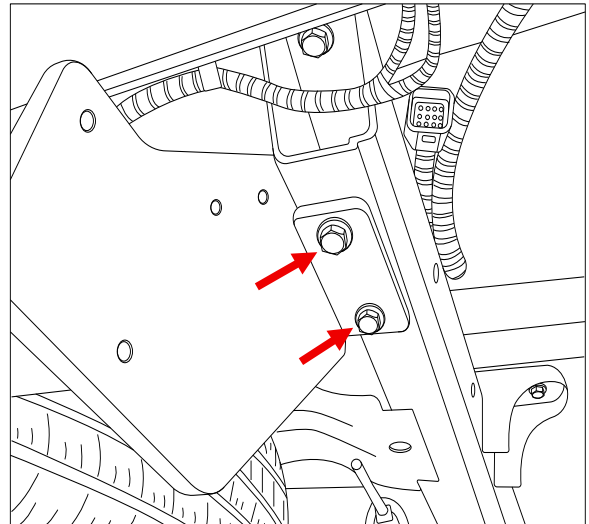
Repeat it for the other side.

Tools Used:

- Ratchet.
- 18mm socket.

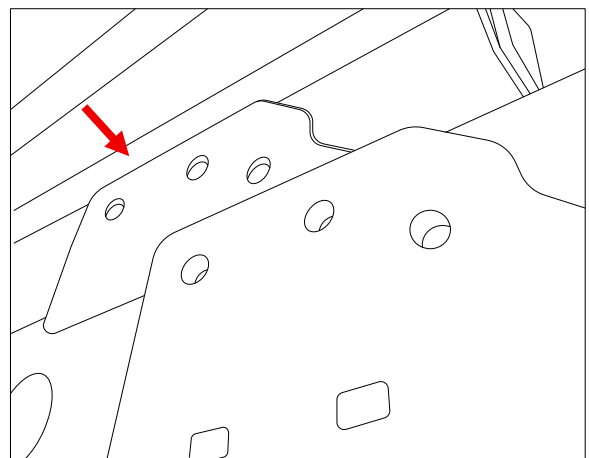
NOTE:

Lifting the tow bar to the vehicle requires two people.



16. Insert a shim plate between the side arm and the vehicle chassis. If needed.

Repeat for the other side.

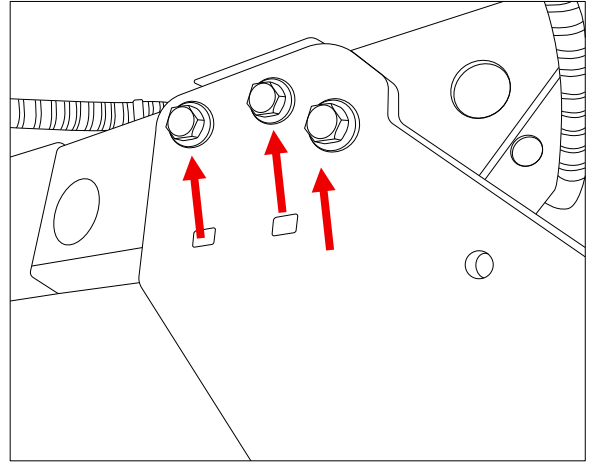


17. Loosely secure it with 3x M12x1.25 bolts and 3x washers.

Repeat it for the other side.

Tools Used:

- Ratchet.
- 18mm socket.

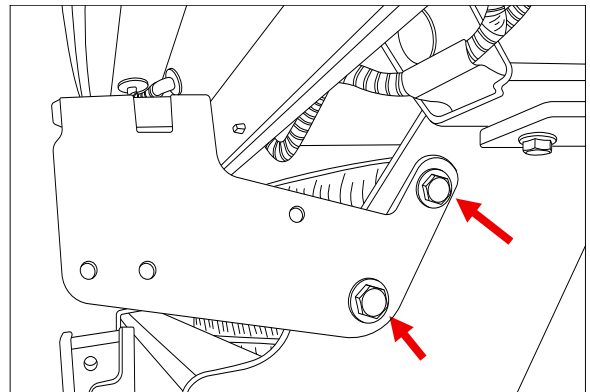


18. Fit the step bracket to tow bar and loosely secure it with 2x M10x 1.5 bolts, 4x washers and 2x nuts.

Repeat it for the other side.

Tools Used:

- Ratchet.
- 16mm socket.

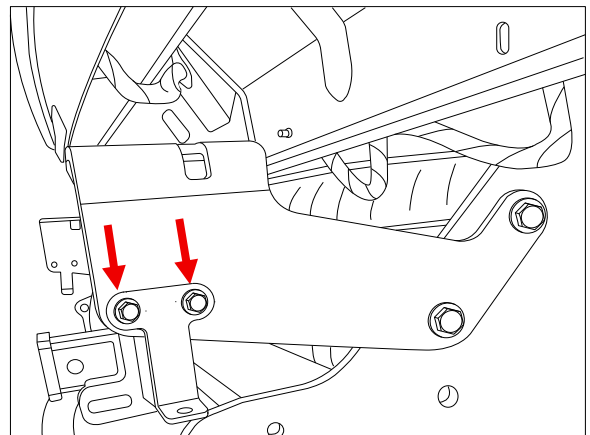


19. Fit the bumper tab bracket to the step bracket and loosely secure it with 2x M6x1.0 bolts, 4x washer and 2x nuts.

Repeat it for the other side.

Tools Used:

- Ratchet.
- 10mm socket.



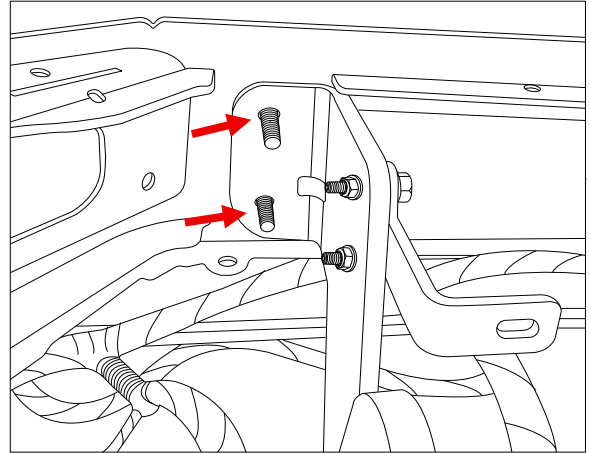
20. Place the bumper frame on top of the step bracket.

Loosely secure it with 2x M8x1.25 bolts, 4x washers and 2x M8 nuts.

Repeat for it the other side.

Tools Used:

- Ratchet.
- 13mm socket.



21. Adjust and centralise the frame to the vehicle.

Loosely secure the bumper support frame with 2x M6x1.0 bolts, 4x washers and 2x nuts.

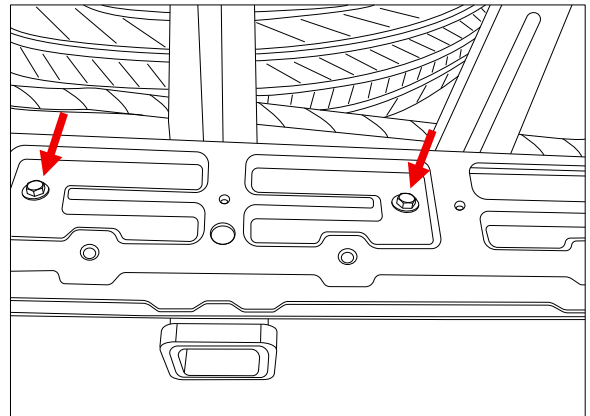
Torque all fastener as below:

M12 x 1.25P x 8.8 - 89 Nm

M10 x 1.5P x 8.8 - 44 Nm

M8 x 1.25P x 8.8 - 22 Nm

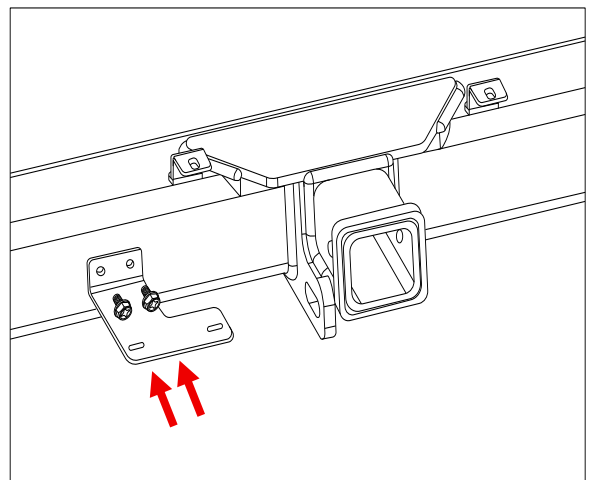
M6 x 1.0P x 8.8 - 9 Nm



22. Fit the plug bracket to the bar and secure it with 2x Tek screws.

Tools Used:

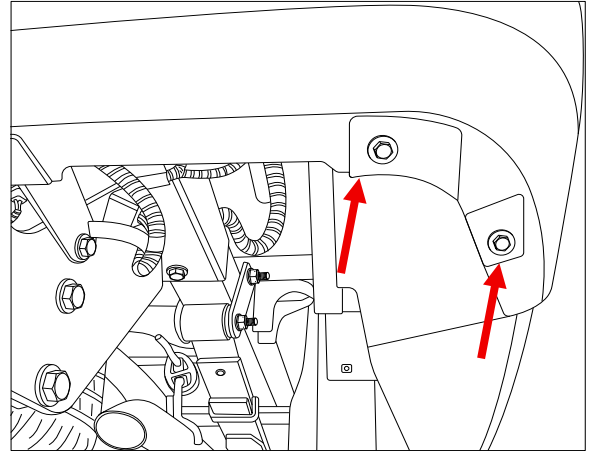
- Driver.
- 10mm socket.



23. Re-assemble the plastic bumper to the bumper frame.
24. Secure the plastic bumper to the frame with 2x screws retained in **Step 10**.
25. Repeat for the other side.

Tools Used:

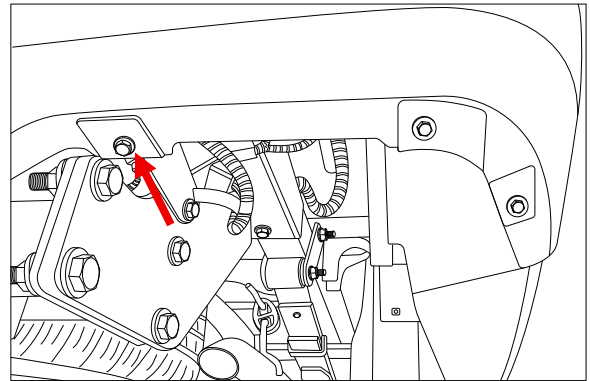
- Ratchet.
- 8mm socket.



26. Secure the plastic bumper to the frame with 1x M6x1.0 bolts, 2x washer and 1x nut.
27. Repeat for the other side.

Tools Used:

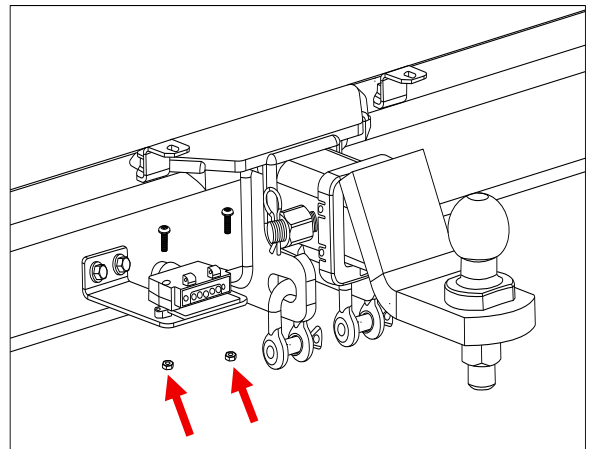
- Ratchet.
- 10mm socket.



28. Re-assemble all the removed parts, from **Step 1 to Step 9**, in the reverse order of removal.
29. Fit each D shackle in each dropper slot.
30. Fit the trailer socket on top of the bracket.
31. Secure it with 2x M4 x16 bolts, 2x washer and 2x nylon nuts.

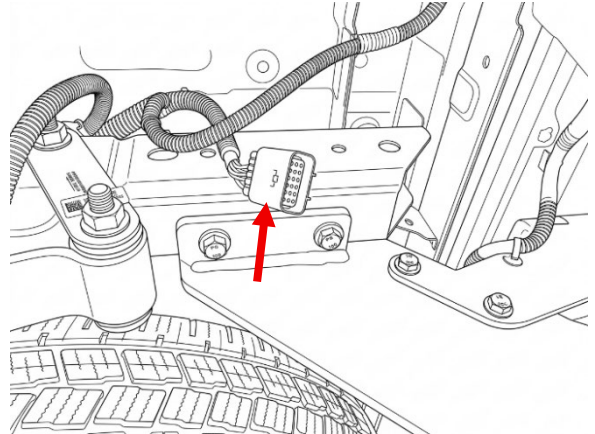
Tools Used:

- PH2 Screwdriver.
- 7mm Spanner.



32. On the LHS rear of chassis locate the vehicle trailer 16-way pre-wire connector.

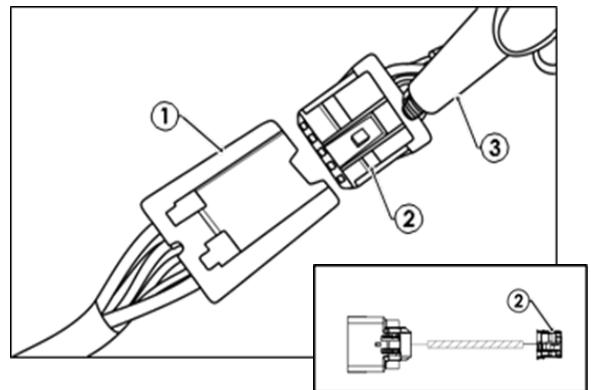
33. Remove the blanking plug and discard.



34. Connect the tail harness (1200mm) 8-way connector (1) to the trailer patch 8-way mating connector (2).

Waterproof the trailer patch 8-way connector (1) and the tail harness 8-way male connector (2) using Die-Electric Grease (3).

35. Plug the trailer patch to vehicle 16-way pre-wire connector.

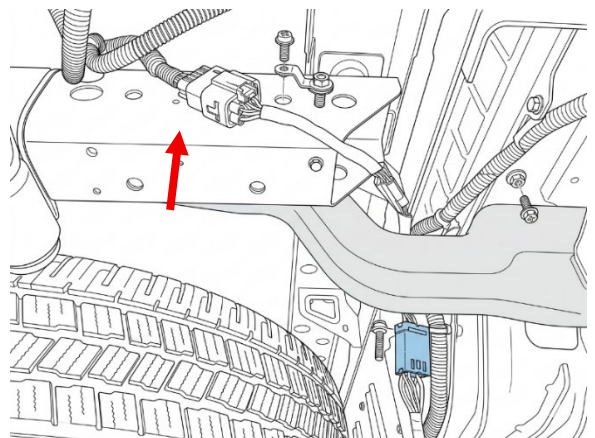


36. Plug the trailer patch to vehicle 16-way pre-wire connector.

37. Secure harness using cable ties (not supplied).

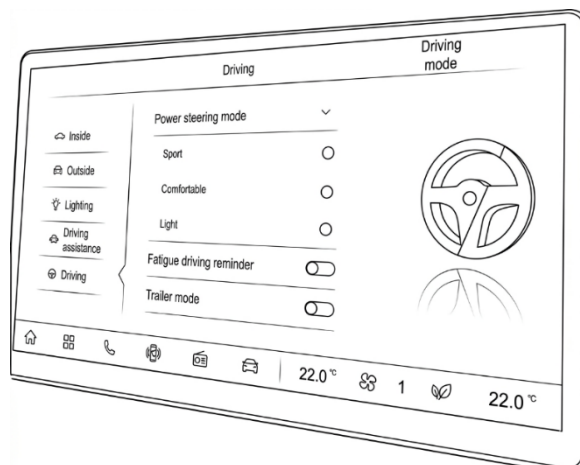
38. Test operation of the Trailer Wiring Harness using test board to ensure correct operation.

Place fitting instructions in glovebox when finished.

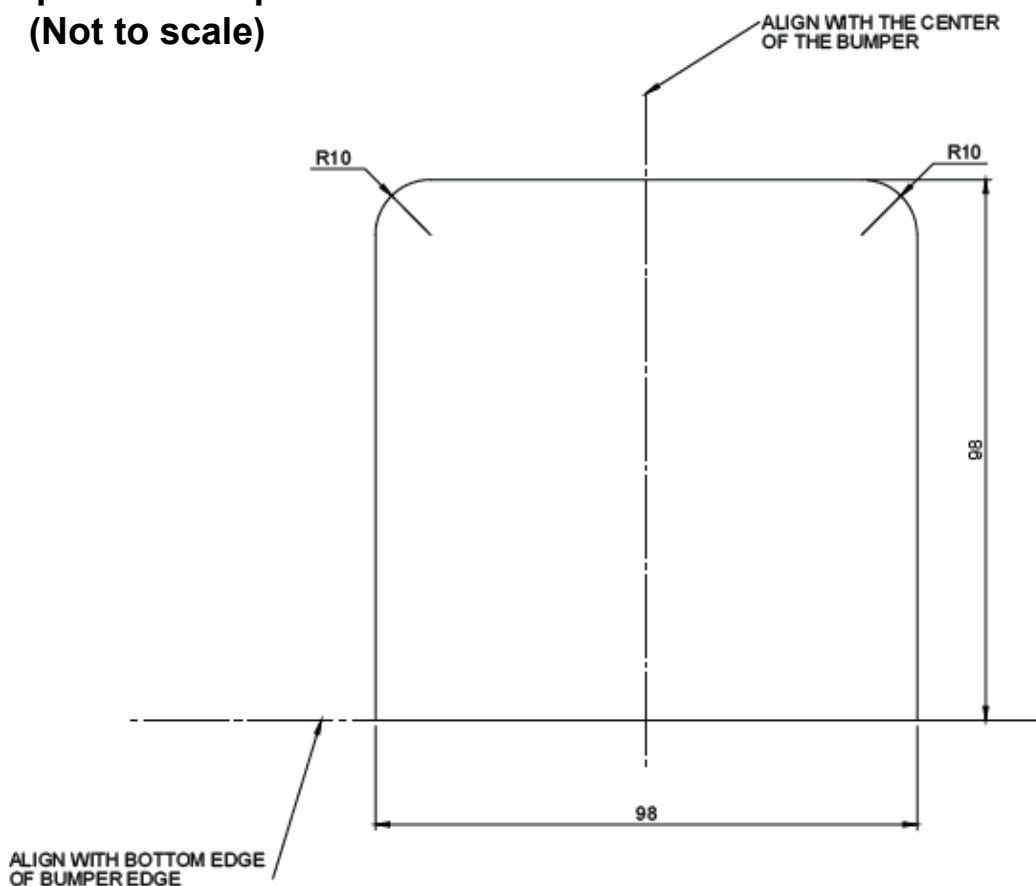


NOTE:

1. "Trailer mode" must be enabled for trailer light output.
2. Turn Ignition on.
3. Access the "Driving menu".
4. Scroll down to "Trailer mode" and swipe the slider towards the left.



Bumper Cut Template (Not to scale)





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)

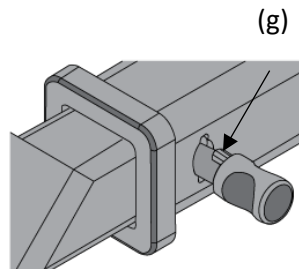
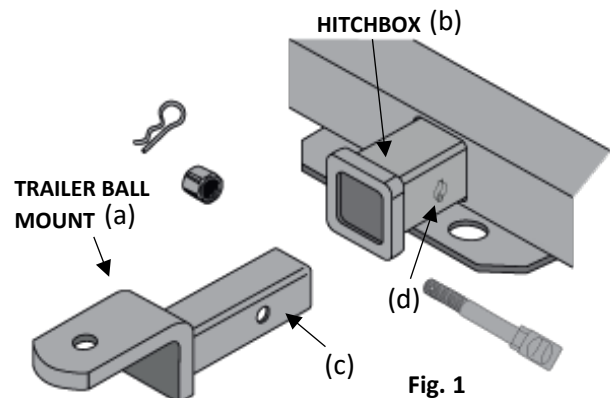


Fig. 2

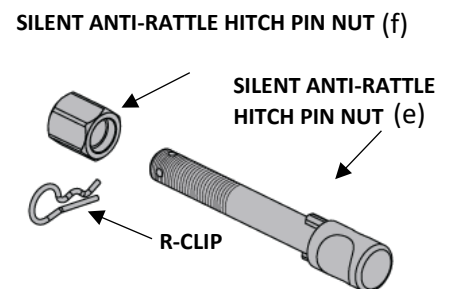


Fig. 3

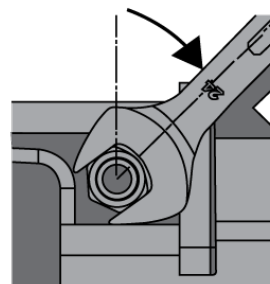


Fig. 4

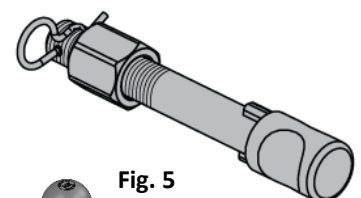


Fig. 5

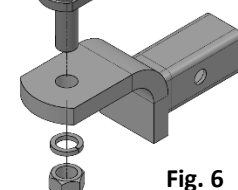


Fig. 6