



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER QTGW017

GWM TANK 500

PRODUCT DETAILS:

Part Number:	QTGW017	Maximum Towing Braked:	3500	kg
ECU Number:	N/A	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	N/A	Maximum Static Ball Load:	240	kg
TBM/Lug Part Number:	21375			

FITTING DETAILS:

Towbar Installation Time:	60 MINS	RPA Disable/Other:	YES
Total Installation Time:	70 MINS		
Bumper Cut Required:	YES		

Note:

- Please refer vehicles owner's manual for proper operation and understanding of towing features enabled.
- Tank5 500 has wire harness installed on vehicle from factory.

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

BEFORE YOU START:

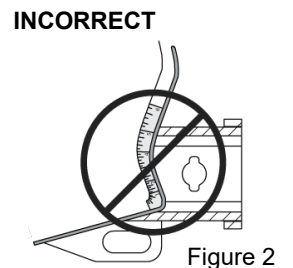
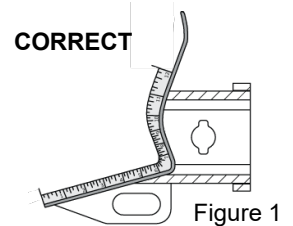
Check all hardware items have been included refer to assembly diagram.
Please ensure this towbar is only fitted to vehicle models as per Trailboss application guide.

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

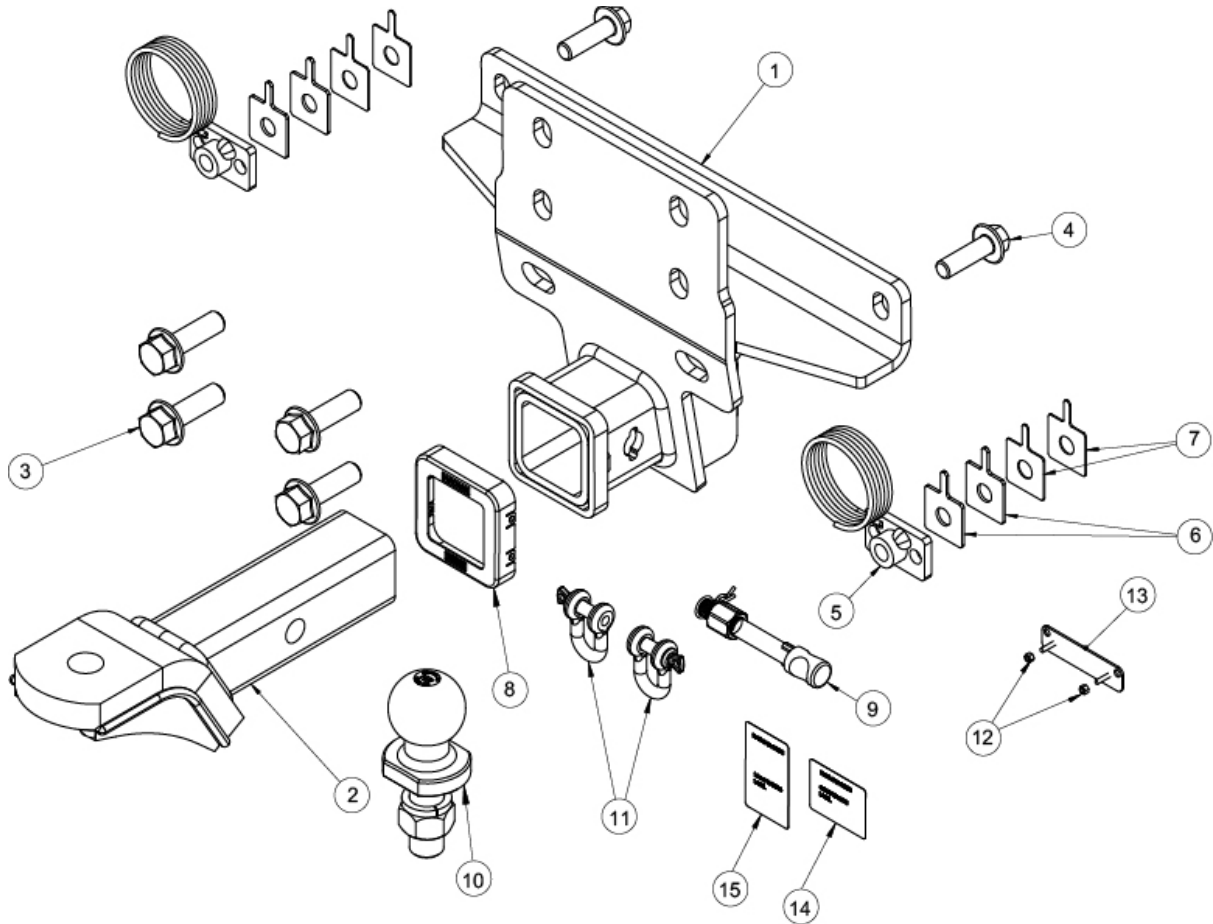
- Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.

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	TANK 500 WELDED ASSEMBLY	1
2	TRAILER BALL MOUNT	1
3	BOLT HEX FLANGED M14x45x1.5P G10.9	4
4	SCREW HEX FLANGED M12x40x1.25P G10.9	2
5	NUT PLATE M12x1.25P	2
6	SPACER 2mm	4
7	SPACER 1mm	4
8	HITCH BOX COLLAR COVER	1

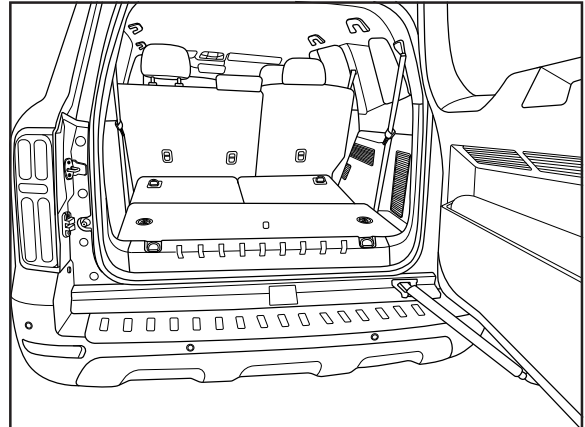
ITEM	DESCRIPTION	QTY
9	SMART PIN SILVER	1
10	TOWBALL 50mm	1
11	D-SHACKLE 10mm	2
12	NUT NYLOC HEX HD M4x0.7P G8	2
13	PLUG BRACKET	1
14	COMPLIANCE LABEL	1
15	LOAD RATING LABEL	1

1. Open rear door.

Important

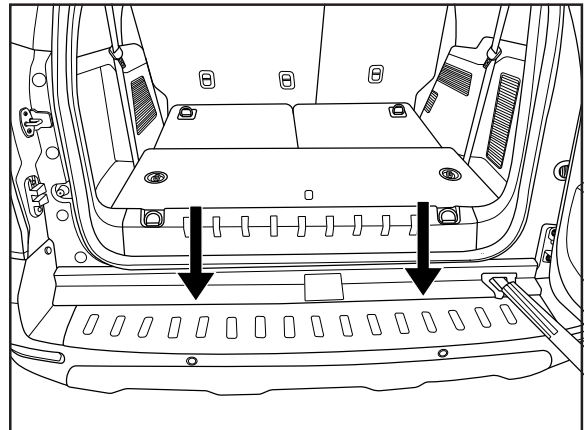


Always refer to the vehicle's Workshop Manual when removing vehicle components.



2. Locate plastic trim at the top of bumper.

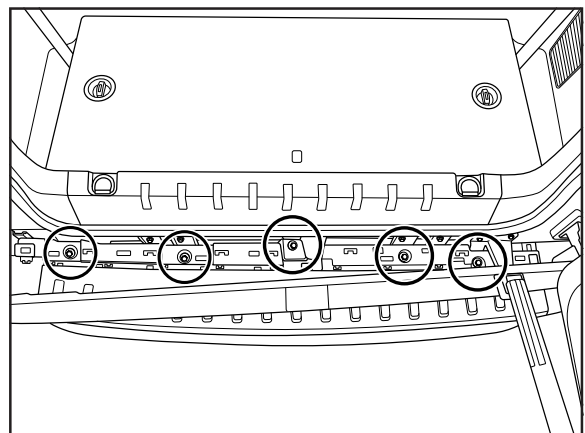
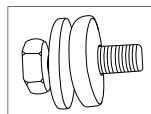
Peel away starting from hinge side to reveal 5x bolts.



3. Remove and retain 5x Bolts

Tools used:

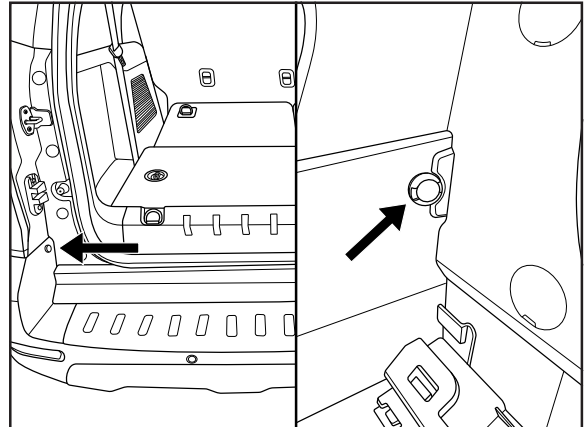
- Ratchet
- Socket (M13)



4. Remove the christmas tree clip inside the LHS door lip (opposite the hinge).

Tools used:

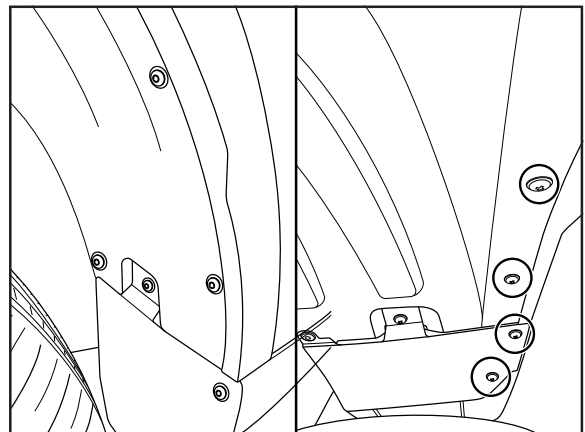
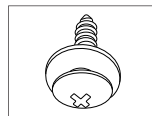
- Trim Removal Tools



5. Remove and retain 4x trim fasteners.

Tools used:

- Phillip's Head Screwdriver (PH2)

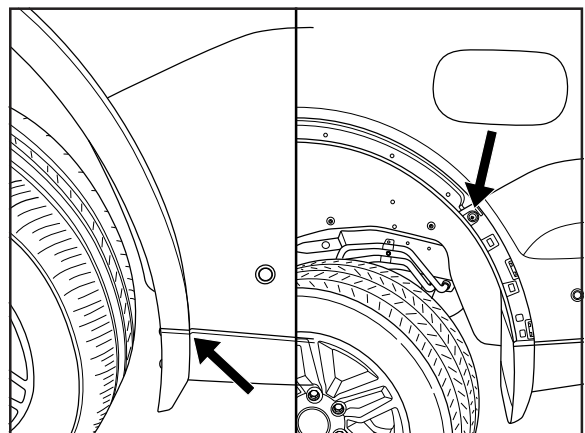


6. Peel away wheel trim from bottom to reveal top fastener.

Remove and keep.

Tools used:

- Phillip's Head Screwdriver (PH2)

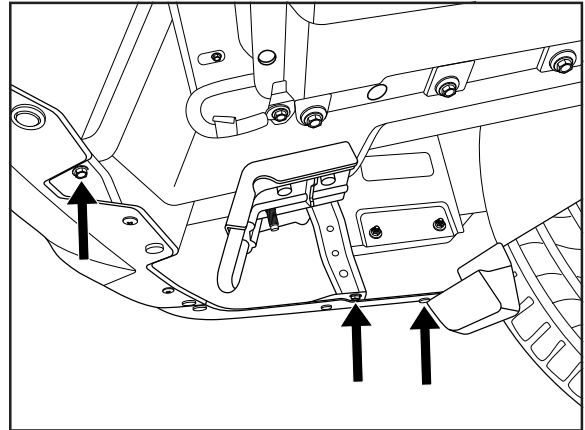
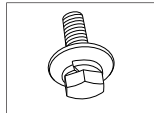


7. Under the bumper, remove 1x Christmas tree clip and 2x bolts

Repeat steps 4-6 for other side

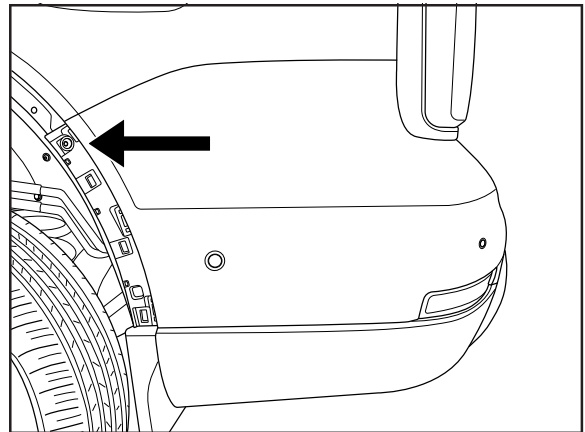
Tools used:

- Ratchet
- Socket (10mm)
- Trim Removal Tools



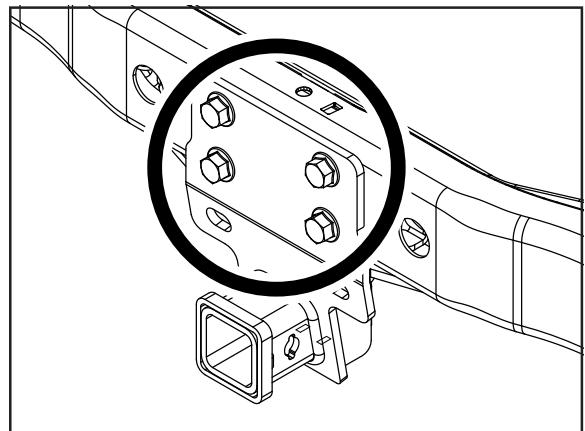
8. Disconnect harness.

Starting from corner next to wheel arch, peel away bumper.

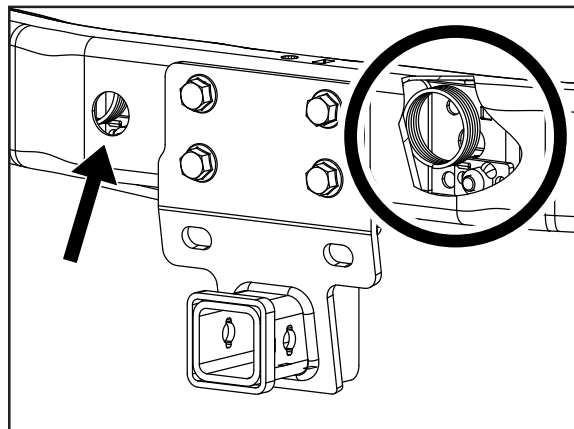


9. Mount towbar to vehicle.

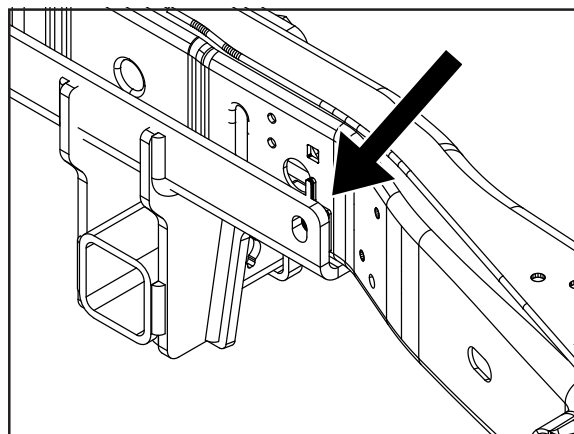
Insert 4x M14x45 bolts.



10. Bend nut plate wire and feed into chassis from rear hole.



11. Using the spacers, fill the gap in between the chassis and the towbar (if required).



12. Insert the 2x M12x1.25 bolts and tighten to nut plate.

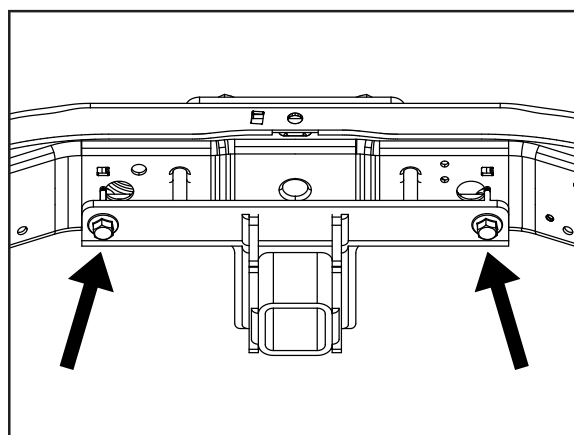
Torque fasteners as follows:

M14 - 196Nm

M12 - 125Nm

Tools Used:

- Torque Wrench
- Ratchet
- Socket (16mm)
- Socket (21mm)



13. Mask up the bumper and mark out area **A** with a 230mmx100mm rectangle with radius 10mm corners centred on the bumper and measured from the bottom edge as shown.

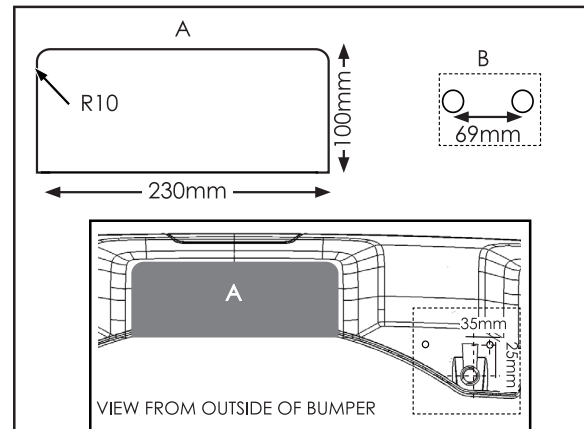
Drill the top two corners out.

Cut the bumper. Once cut is complete, install the pinch weld around the cut edges of the bumper.

Important



Disconnect the RPA harness from the bumper before making any cuts into the rear bumper.



Tools Used:

- Cutting tool
- Tape
- Marker
- Ruler/Tape measure
- Drill
- 10mm Drill bit

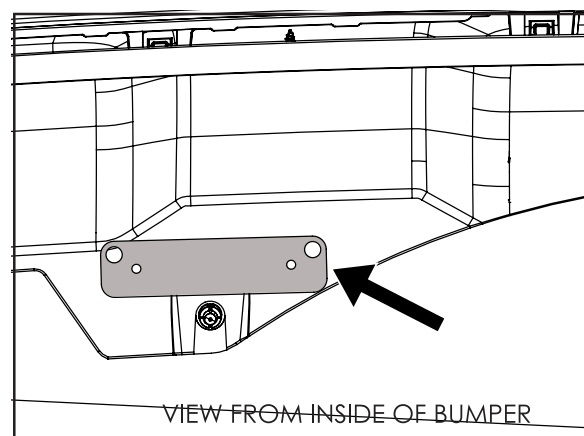
14. Using a 6mm drill bit, drill the two holes for the plug bracket shown on Area B (shown in the previous step).

From the inside of the rear bumper, loosely align and feed the 2 studs on the plug bracket (20) through the two 6mm holes drilled into the rear bumper.

Loosely secure the M4 nyloc nuts to the plug bracket.

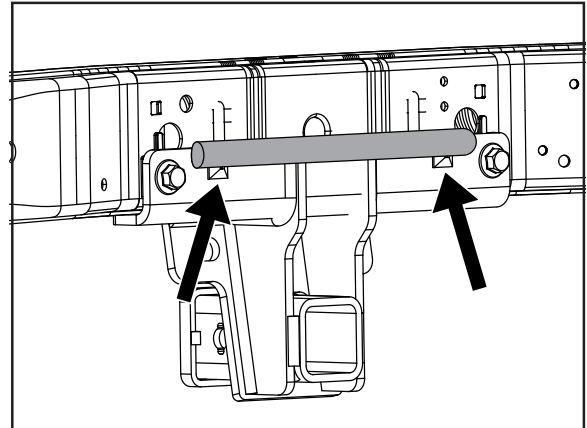
Tools Used:

- Drill
- 6mm Drill bit

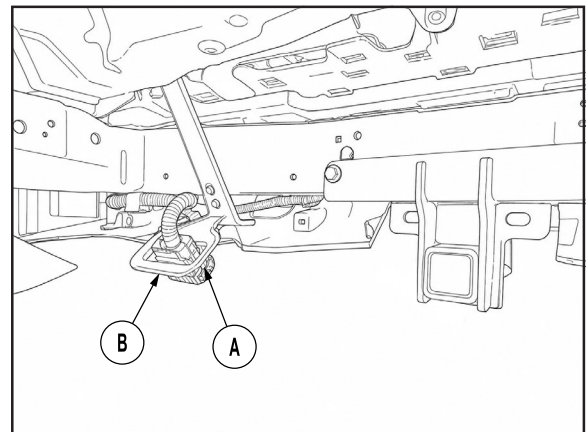


15. Refit bumper, placing the RPA harness behind the towbar as shown.

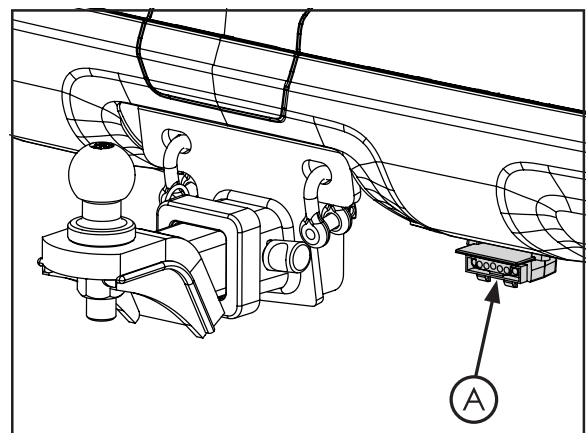
Secure the RPA harness on the rear cross beam with cable ties and mounts as show.



16. Locate the vehicle trailer harness (A), then release the trailer harness (A) from the vehicle trailer harness bracket (B).



17. Relocate the vehicle trailer harness connector (A) to the rear bumper. Route the trailer socket (A) on the trailer harness to the plug bracket studs and secure the trailer socket to the plug connector with the M4 Nyloc Nuts.



18. Affix load rating label to the inner door panel as shown.

Important

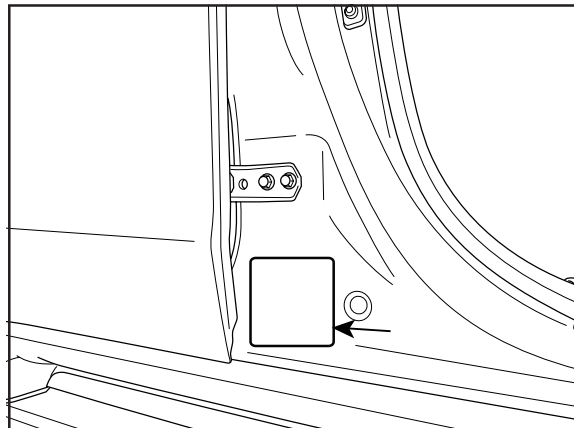


Please place the installation manual in the glove box after the towbar installation is complete.

Important



Before towing with your vehicle please refer to the vehicle owners handbook for trailer towing information.





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)

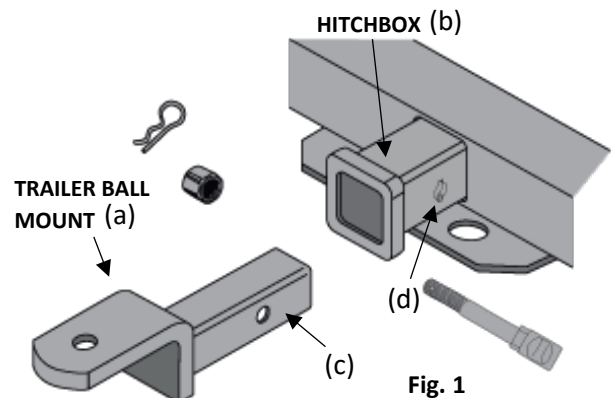


Fig. 1

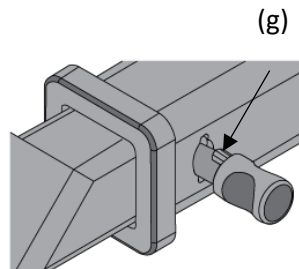


Fig. 2

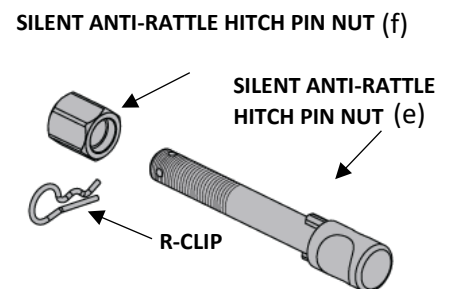


Fig. 3

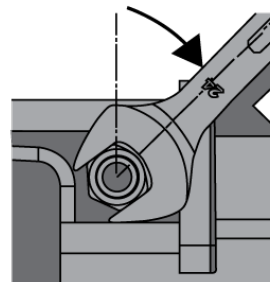


Fig. 4

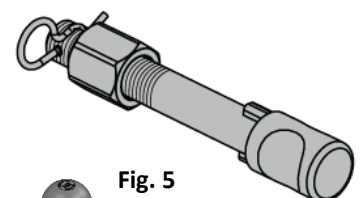


Fig. 5

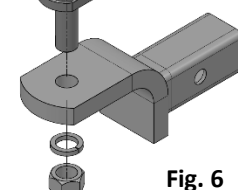


Fig. 6