

PRODUCT DETAILS:

Part Number:	QTJC02L	Maximum Towing Braked:	3500	kg
ECU Number:	N/A	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	400mm	Maximum Static Ball Load:	350	kg
TBM/Lug Part Number:	21386			

FITTING DETAILS:

Towbar Installation Time:	30 Mins.	RPA Disable/Other:	YES
Total Installation Time:	60 Mins.		
Bumper Cut Required:	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:

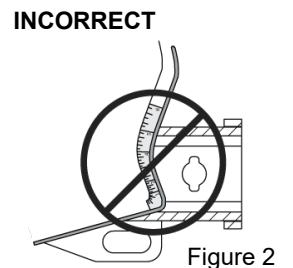
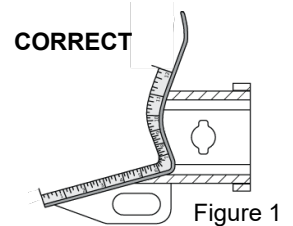
Check all hardware items have been included refer to assembly diagram.
Please ensure this towbar is only fitted to vehicle models as per Trailboss application guide.

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

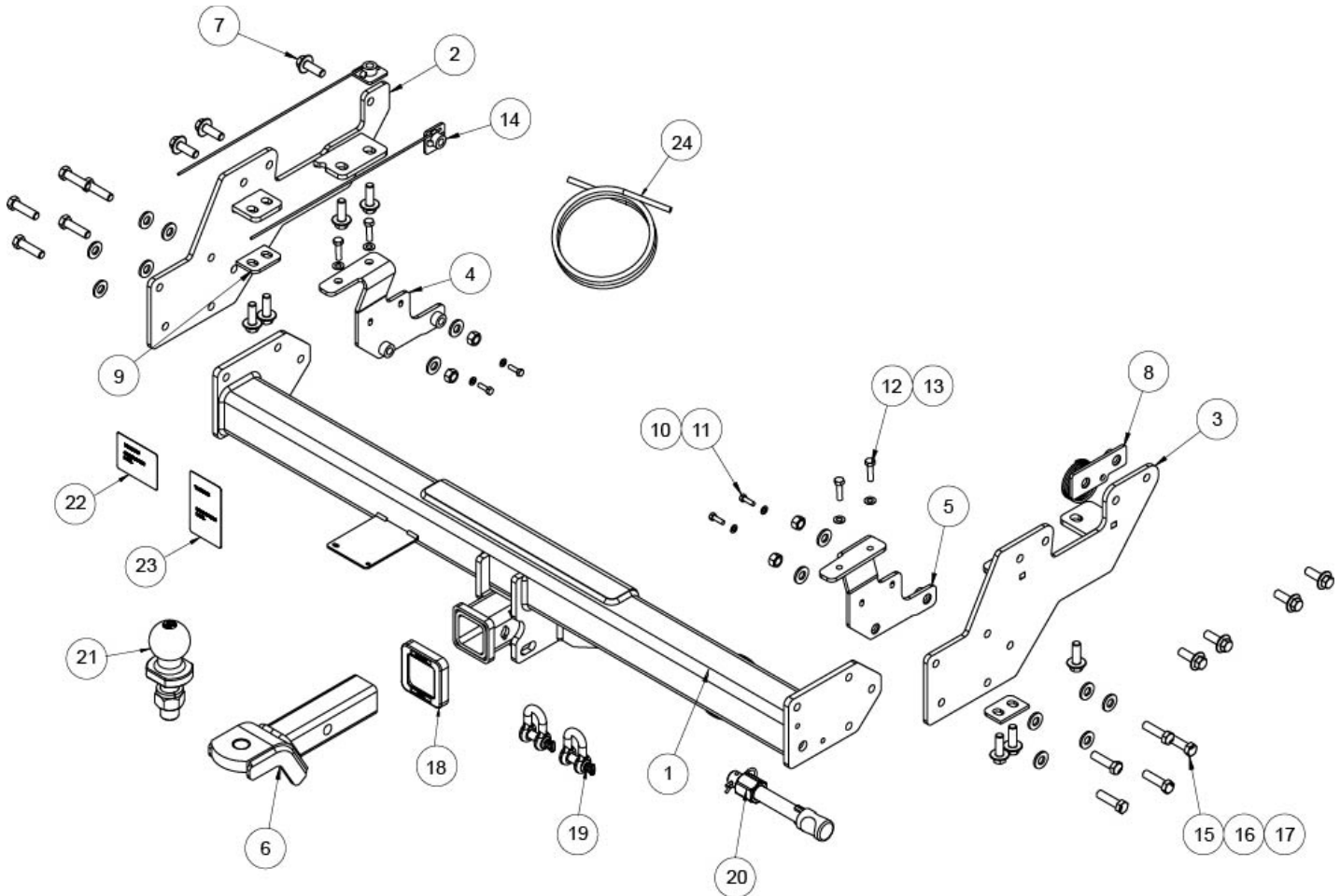
- a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.

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.

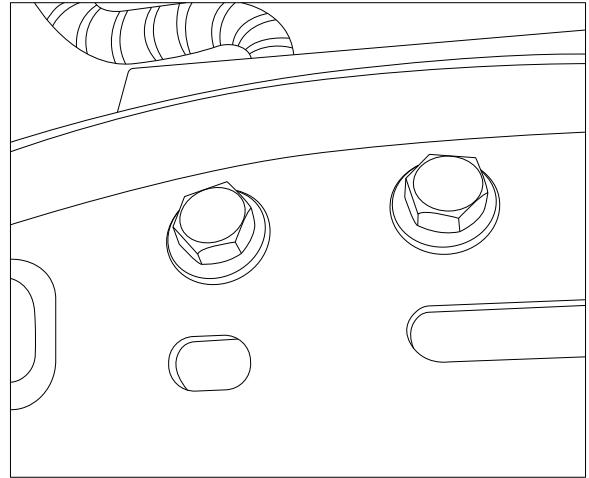
TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	JAC T9 PHEV WELDED TOWBAR	1
2	LH SIDE ARM ASSY	1
3	RH SIDE ARM ASSY	1
4	LH STEP BRACKET ASSY	1
5	RH STEP BRACKET ASSY	1
6	TRAILER BALL MOUNT	1
7	SCREW FLANGE M12x35x1.25P G10.9	14
8	RH NUT PLATE	1
9	HORIZONTAL SPACER PLATE	2
10	SCREW HEX HD M6x20x1.0P G8.8	4
11	WASHER PLAIN M6x12.5x1.2mm	4
12	SCREW HEX HD M8x30x1.25P G8.8	4

ITEM	DESCRIPTION	QTY
13	WASHER PLAIN M8x18x1.2mm	4
14	NUT PLATE WITH WIRE ASSY	2
15	WASHER PLAIN M12x27x3.0mm	14
16	SCREW HEX HD M12x45x1.25P G10.9	10
17	NUT HEX HD M12x1.25 G10	4
18	HITCH BOX COLLAR COVER	1
19	D-SHACKLE 10mm	2
20	SMART PIN SILVER	1
21	TOWBALL 50mm	1
22	COMPLIANCE LABEL	1
23	LOAD RATING LABEL	1
24	WIRING LOOM	1

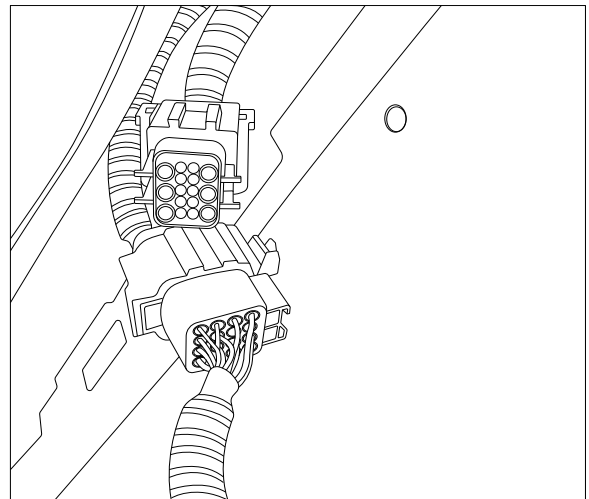
1. On the driver side, remove 2x screws holding the bumper to the vehicle using a 15mm socket
2. Repeat for LHS.



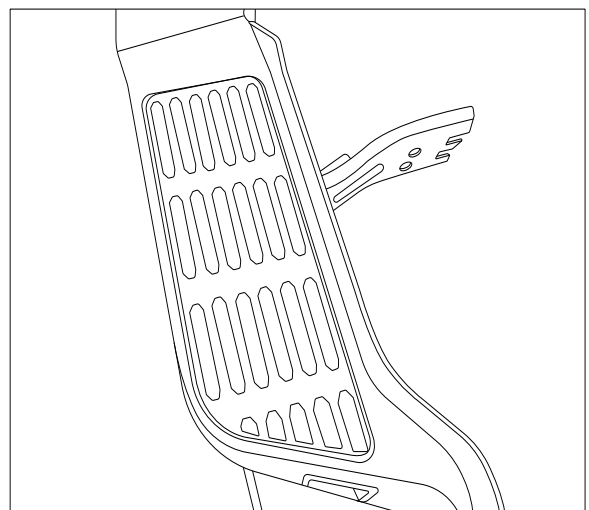
3. Disconnect the vehicle harness.
4. Pull out the bumper and place it safely on the bumper stand.

IMPORTANT:

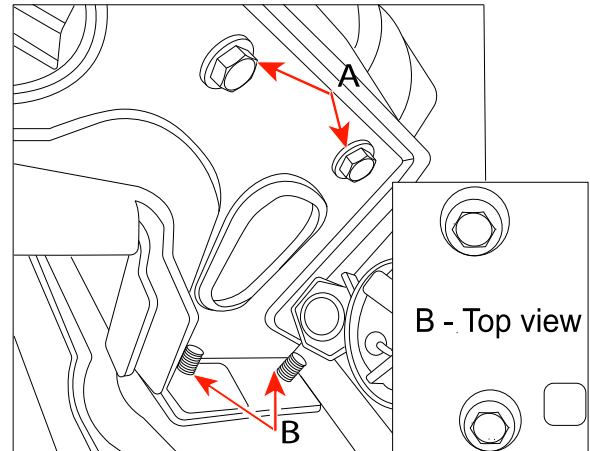
Please run M12 x1.25 tap through all the mounting points on the chassis rail on each side.



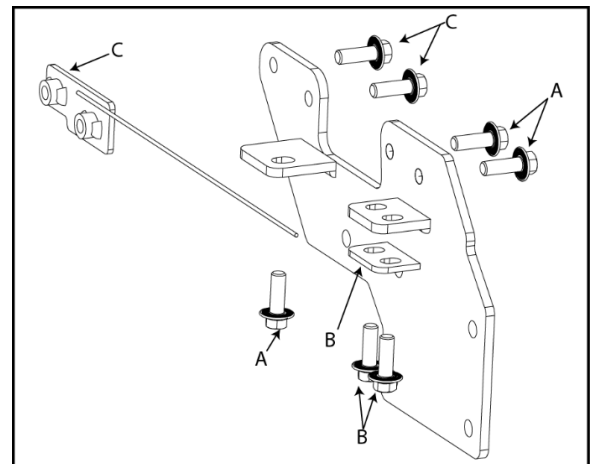
5. On the LHS of the bumper, remove the plastic step cover.
6. Repeat on RHS.



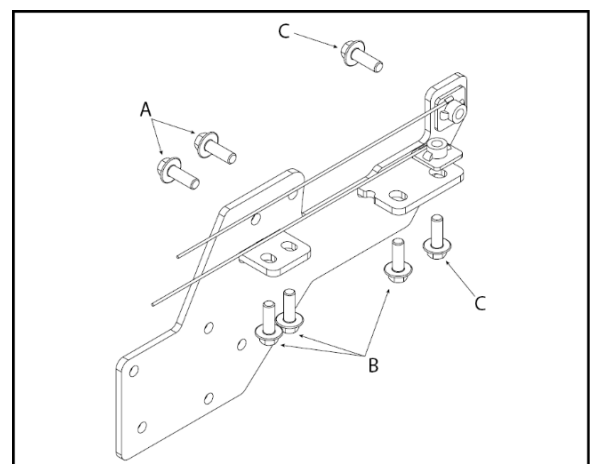
7. Remove 2x M6 screws (A) from the bumper step bracket on the driver side.
8. Remove 2x M8 screws (B) from the bumper step bracket on the driver side from the top of the bumper.
9. Discard the step bracket.
10. Repeat for LHS.



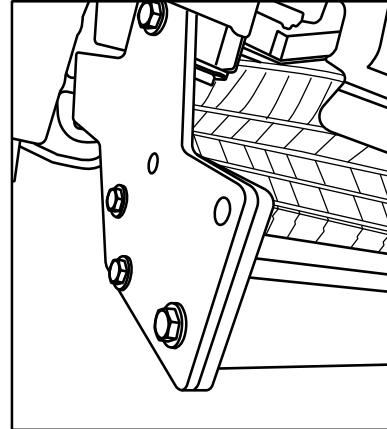
11. On the driver side, align the RHS side arm assembly with the chassis rail and loosely fit the side arm by using x5 M12 flange bolts (**A & B**) (Use spacer plate between the bolt and the bracket at the rear most holes as shown in the figure).
12. Straighten the coiled wire on the nut plate and insert the nut plate inside the chassis rail and secure it with x2 M12 bolts (**C**).
13. Repeat on LHS.



14. On the passenger's side, remove and retain the bolt from the clamp holding the adblue tank. Align the LHS side arm assembly with the chassis rail and loosely fit the side arm by using x5 M12 flange bolts (A & B) (Use spacer plate between the bolt and the bracket at the rear most holes as shown in the figure). Straighten the coiled wire on the nut plate and insert the nut plate inside the chassis rail and secure it with x2 M12 bolts (C).



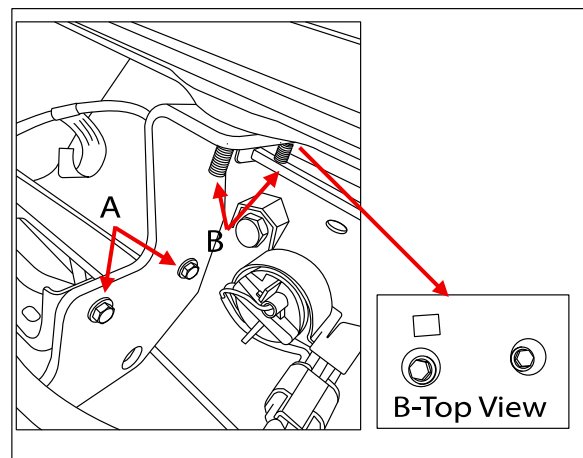
15. Align and loosely fit the welded towbar assembly with the side arms using M12 x 45 x 1.25P bolts and washers and nuts as shown in the figure to the right.



16. Tighten all the fasteners to the torque values as mentioned in the table.

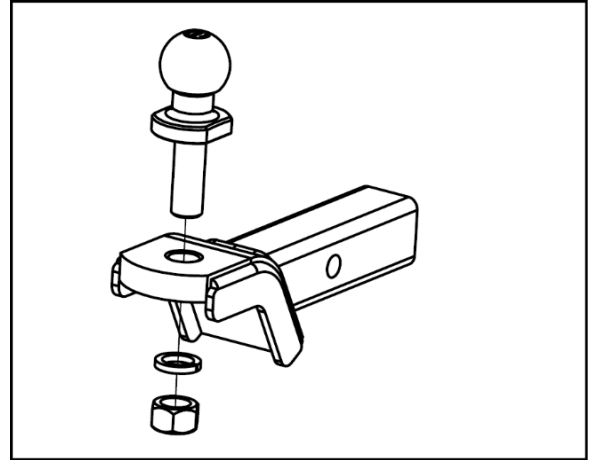
Bolt	Torque (Nm)
M12 flanged bolts	150
M12 hex head bolts	125

17. On the passenger's side, fit the new step brackets from the kit to the bumper using M6 bolts and M6 washers (A) and M8 bolts and M8 washers (B) from the top as shown in the figure to the right.
Repeat the above on the driver's side.



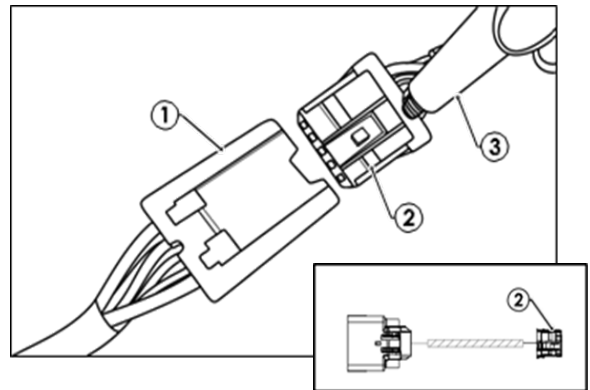
18. Torque the Towball to the Trailer Ball Mount at 350Nm and secure the TBM inside the hitch receiver of the Towbar using the Pull Pin and R-Clip.
Attach the D Shackles inside the chain connection points as seen on the layout diagram.

NOTE: The Spring Washer is designed for one time use only. If the Nut is ever removed or loosened, the Spring Washer must be replaced.



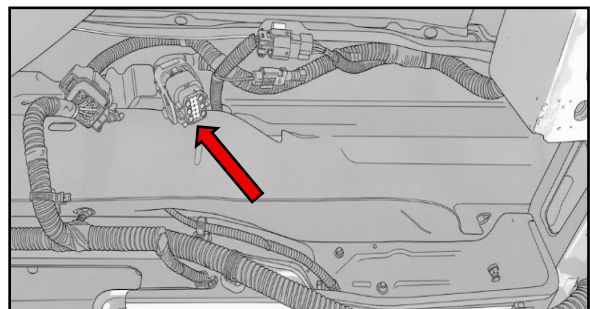
19. Connect the tail harness (400mm) 8-way connector (1) to the trailer patch 8-way mating connector (2).

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

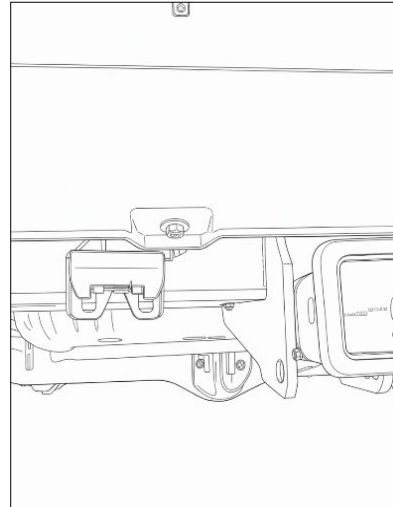


20. On the rear of vehicle sheet metal locate vehicle 16 - way trailer prewire connector.
21. Release lever lock connector and discard blanking plug.
22. Plug the trailer patch mating connector to vehicle.

Note: Ensure the connector is engaged fully.



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23. Refit the bumper to the vehicle by aligning it with the towbar and using x2 M12 x 45 x 1.25P bolts, nuts and washers per side.
 24. Refit the adlbue tank to the clamp removed in step 6.
 25. Mount the trailer socket to plug bracket using M4 fasteners (not supplied).
 26. Secure harnesses using cable ties ensure to keep away from heat and sharp edges.
 27. Test trailer functionality using test board.
 28. Place instructions in glove box when completed.
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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)

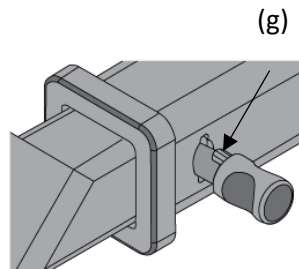
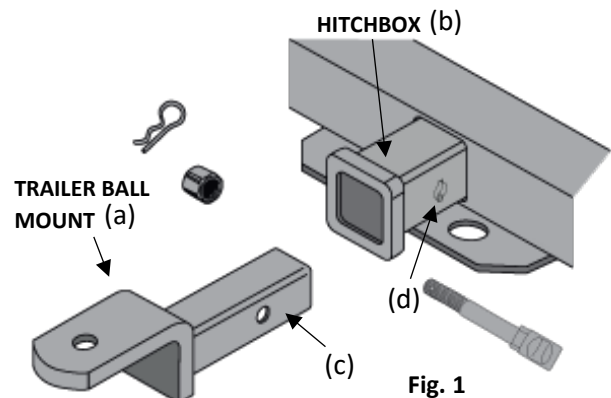


Fig. 2

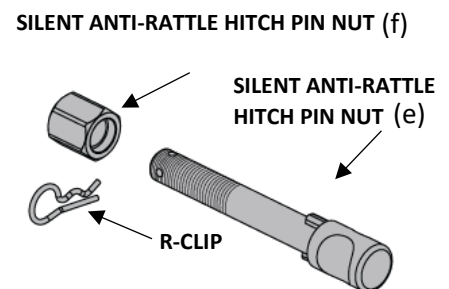


Fig. 3

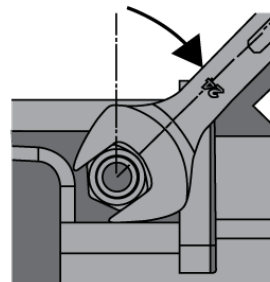


Fig. 4

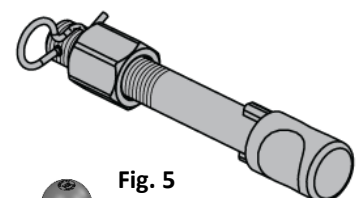


Fig. 5

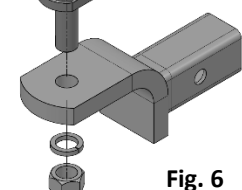


Fig. 6