



TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER QTDS862L

NISSAN NAVARA D23 SERIES 5 CL4

PRODUCT DETAILS:

Part Number:	QTDS862L	Maximum Towing Braked:	3500	kg
ECU Number:	N/A	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200 mm	Maximum Static Ball Load:	350	kg
TBM/Lug Part Number:	21161			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	RPA Disable/Other:	NO
Total Installation Time:	80 Mins.		
Bumper Cut Required:	No		

Note:

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

BEFORE YOU START:

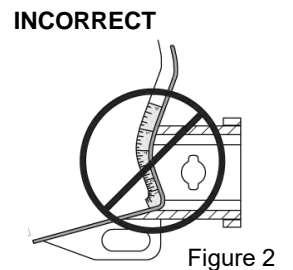
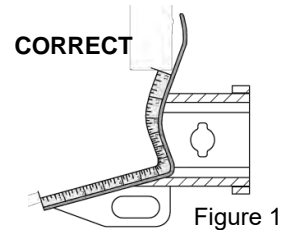
Check all hardware items have been included refer to assembly diagram.
Please ensure this towbar is only fitted to vehicle models as per Trailboss application guide.

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

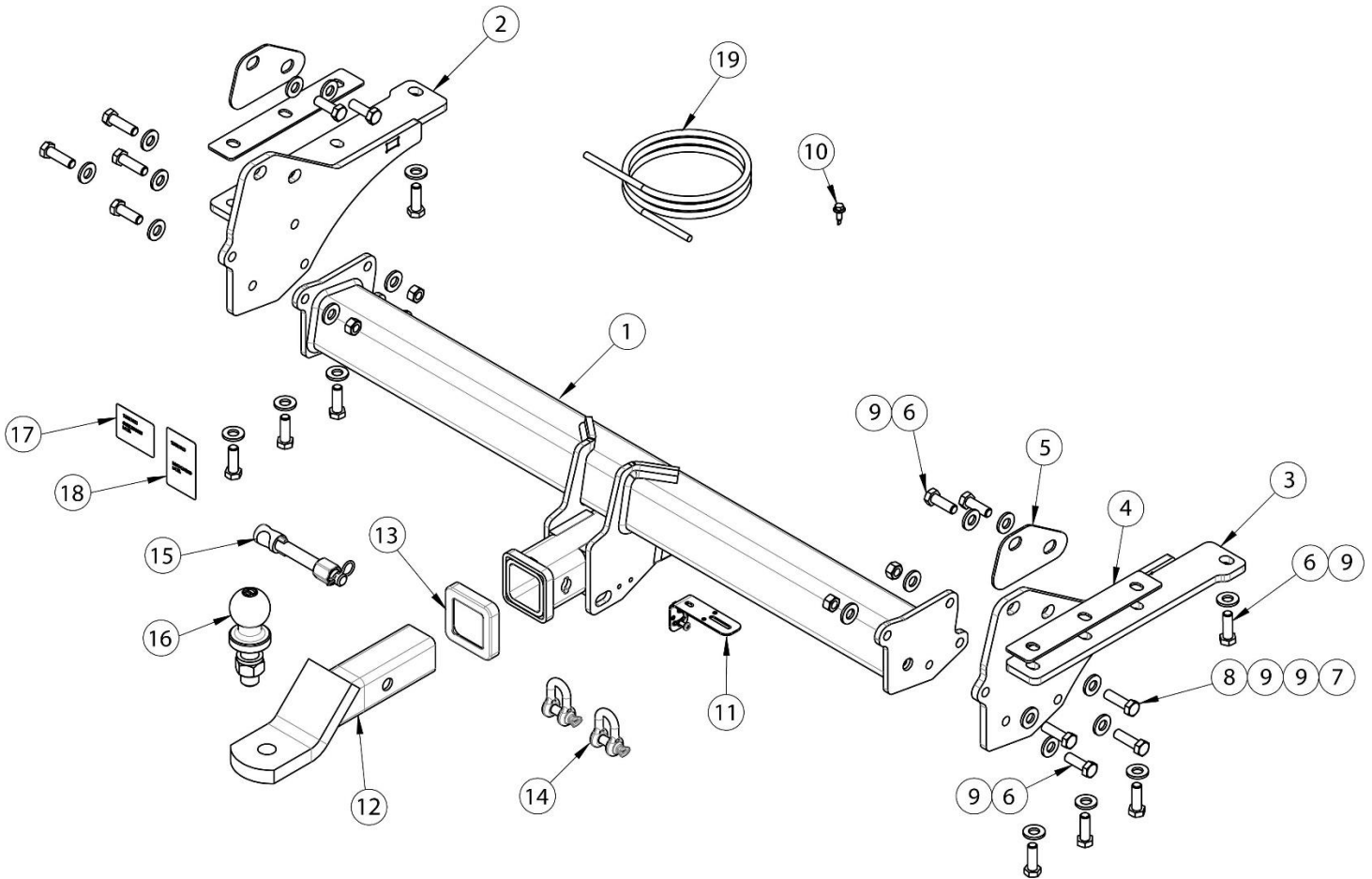
- a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.

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.

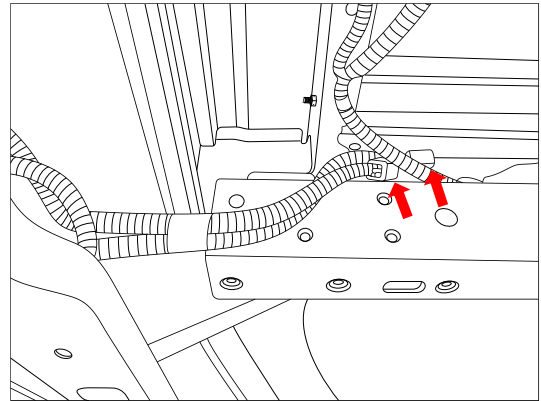
i TOWBAR ASSEMBLY DIAGRAM



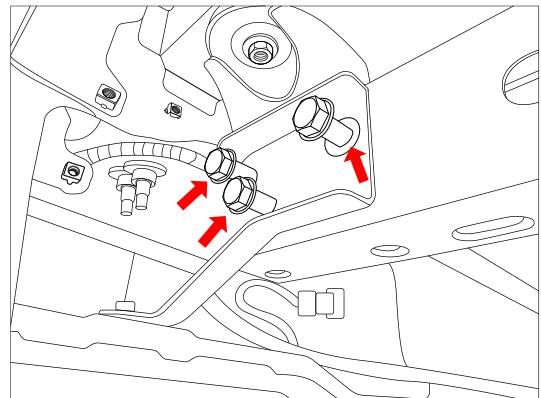
ITEM	DESCRIPTION	QTY
1	NISSAN NAVARA WELDED ASSEMBLY	1
2	SIDE ARM ASSEMBLY LH	1
3	SIDE ARM ASSEMBLY RH	1
4	SLOTTED SPACER PLATE	2
5	END SPACER PLATE	2
6	SET SCREW HEX HD M12x35x1.25P	14
7	NUT HEX HD M12x1.25P	6
8	SET SCREW HEX HD M12x40x1.25P	6
9	WASHER PLAIN 1/2"	26
10	TEK SCREW 14-20 HEX HD 22mm	1

ITEM	DESCRIPTION	QTY
11	UNIVERSAL PLUG BRACKET KIT	1
12	TRAILER BALL MOUNT	1
13	HITCH BOX COLLAR COVER	1
14	"D" SHACKLE 10mm	2
15	SMART PIN SILVER	1
16	TOWBALL 50mm	1
17	COMPLIANCE LABEL	1
18	DOOR RATING LABEL	1
19	WIRING LOOM	1

1. Steps 1 and 2 may not be required but it allows for an easier fitment.
Under vehicle, disconnect the 2 x wiring plugs located on the LH side chassis rail.

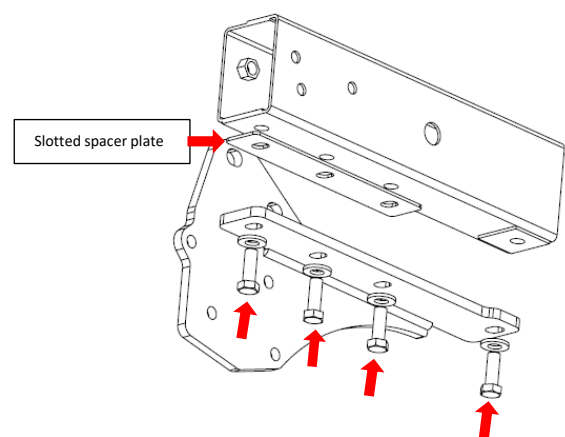


2. Remove the rear step secured with 3 x bolts per side and set aside.

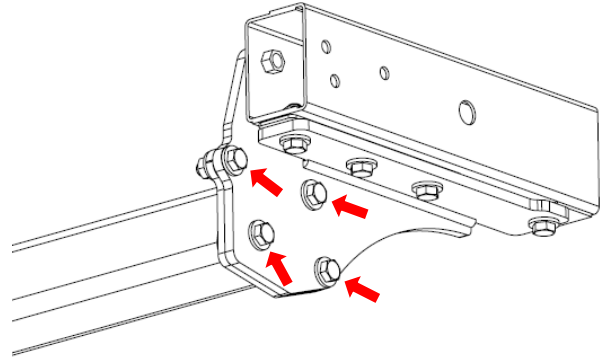


3. Position the side arm along with the slotted spacer plate to chassis rail and loosely secure the underside with 4 x M12 x 35 bolts complete with 1 x washer per bolt. (Driver side illustrated)

Repeat for other side.

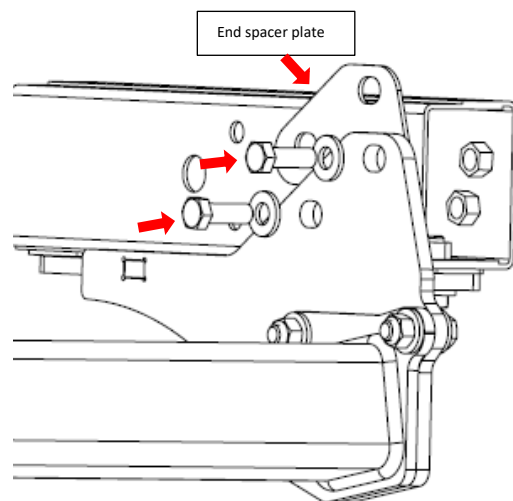


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- Lift the crosstube assembly to the side arms and loosely secure each side with 3 x M12 x 40 bolts complete with 2 x washers and 1 x nut per bolt and to the captive nut with 1 x M12 x 35 bolt complete with 1 x washer.



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- Check the gap between the side arm and chassis rail. If required insert the 3mm end spacer plate and loosely secure the side arm to the side of the chassis rail with 2 x M12 x 35 bolts complete with 1 x washer per bolt.
 - Repeat for other side.

Tighten all fasteners to the following torque: 89Nm

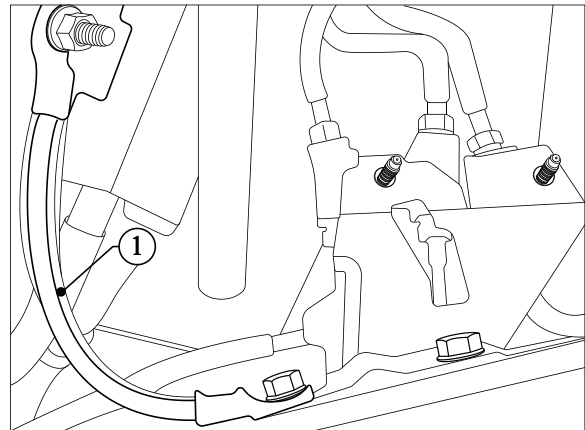


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- Refit the step removed in step 2 and reconnect the wiring plugs from step 1.

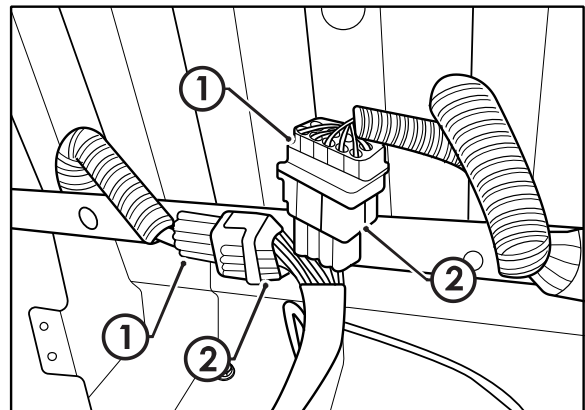
IMPORTANT

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.

8. At the engine bay LHS (passenger side) under the vehicle, use the supplied grounding strap (1) at the location next to the firewall as shown.

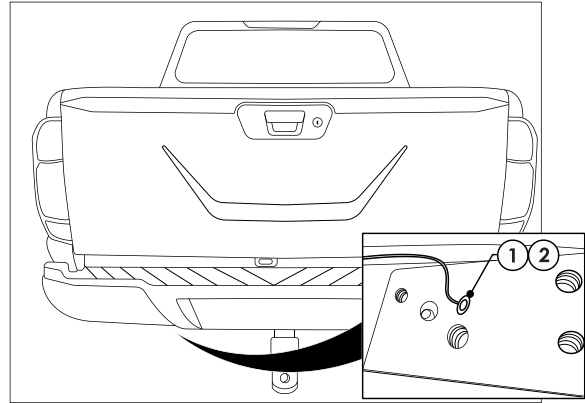


9. At the rear LHS of the vehicle underneath the tray, disconnect the tail light connectors (1) and patch the trailer patch harness (P/No: 101376-WL) connectors (2) in between.

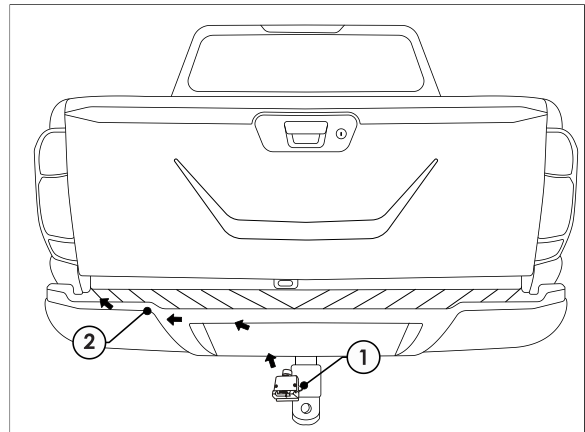


10. Using a tek screw, secure the trailer patch ground ring terminal (1) to a suitable nearby location on the vehicle LHS frame rail (2).

Note: DO NOT ground onto tub body. DO NOT use existing vehicle ground.

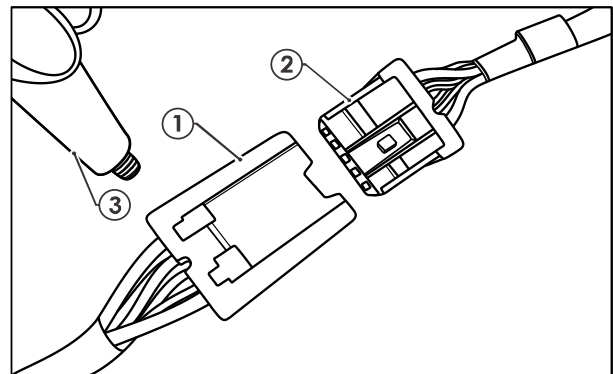


11. Route the tail harness (2) along the towbar, towards the trailer patch harness (1).



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

13. Apply silicone grease (3) to waterproof connector.



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14. Secure all harnesses to the vehicle using cable ties.
 15. Test the Trailer Harness function using trailer light board or multi-meter
 16. Re-fit all removed parts and secure all fasteners.
 17. Please place the fitting instructions in the glove box after installation.
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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 Nut (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)

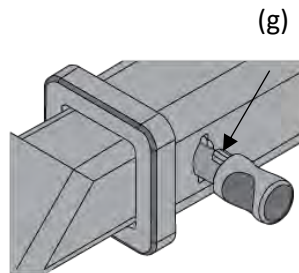
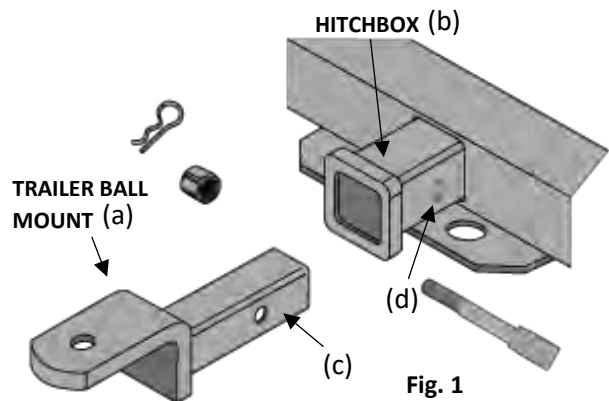


Fig. 2

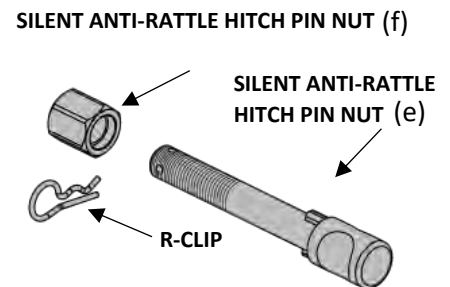


Fig. 3

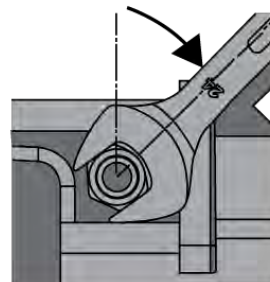


Fig. 4

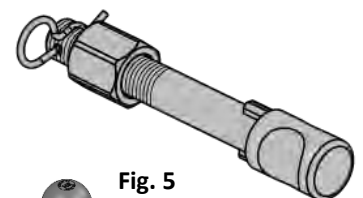


Fig. 5

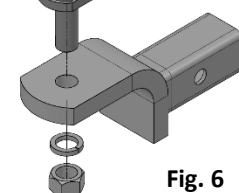


Fig. 6