



# TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER QT1144L

TOYOTA COASTER GEN CL4

## PRODUCT DETAILS:

Part Number:	QT1144L	Maximum Towing Braked:	1700	kg
ECU Number:	N/A	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	400 mm	Maximum Static Ball Load:	170	kg
TBM/Lug Part Number:	21325			

## FITTING DETAILS:

Towbar Installation Time:	30 Mins.	RPA Disable/Other:	NO
Total Installation Time:	60 Mins.		
Bumper Cut Required:	No		

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

#### BEFORE YOU START:

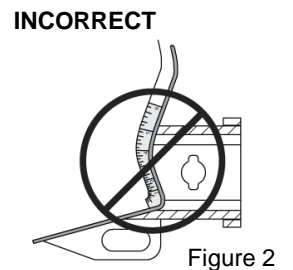
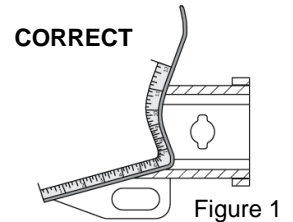
Check all hardware items have been included refer to assembly diagram.  
Please ensure this towbar is only fitted to vehicle models as per Trailboss application guide.

#### 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

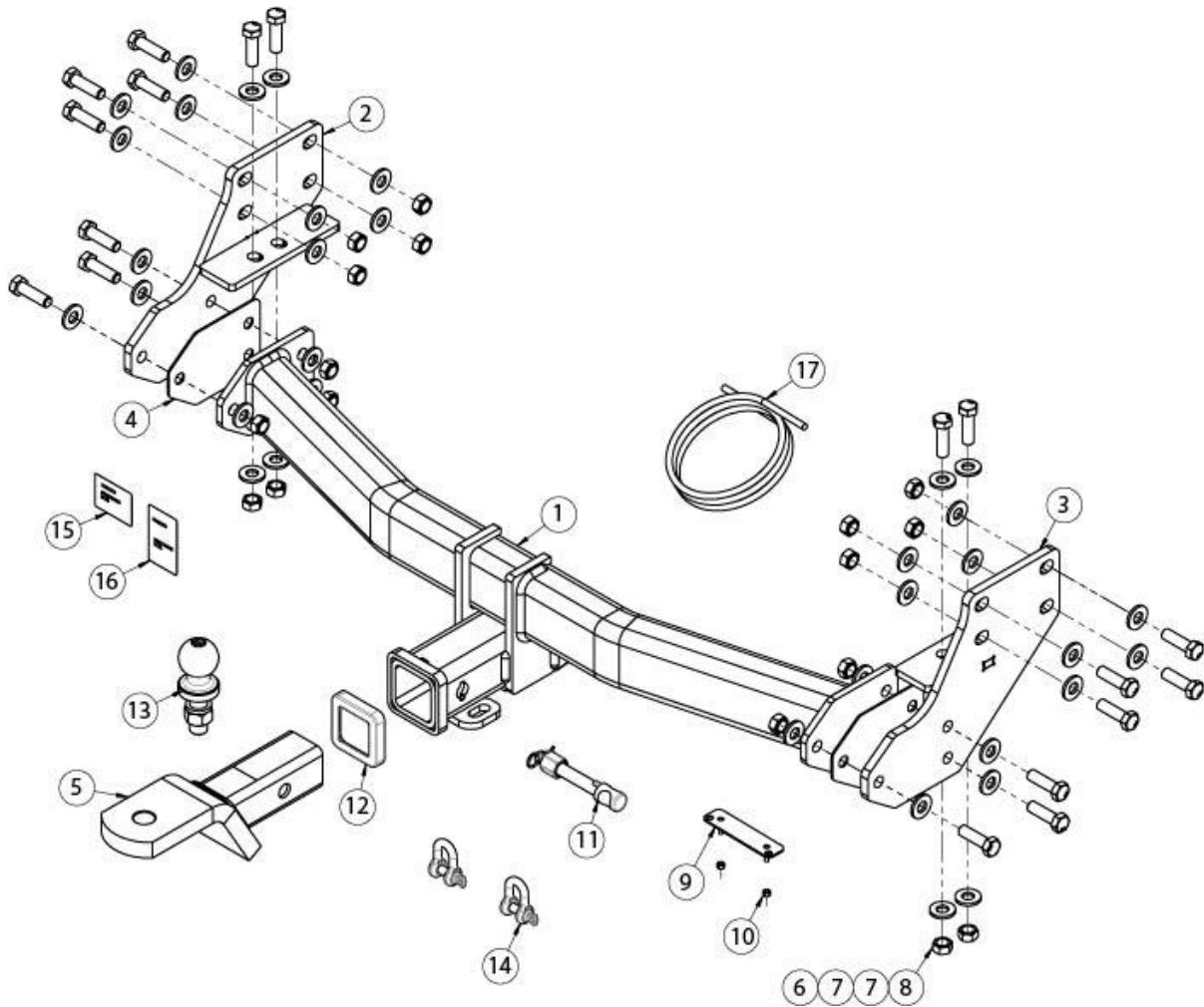
- a. Towbar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door.

#### 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

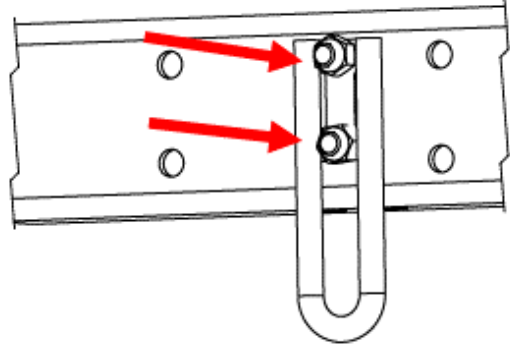


ITEM	DESCRIPTION	QTY
1	TOYOTA COASTER WELDED ASSY	1
2	TOYOTA COASTER LHS SIDEARM	1
3	TOYOTA COASTER RHS SIDEARM	1
4	SHIM PLATE	2
5	TRAILER BALL MOUNT	1
6	SET SCREW HEX HD M12x40x1.25P	18
7	WASHER PLAIN M12x27x3.0	36
8	NUT NYLOC HEX HD M12x1.25P	18
9	PLUG BRACKET	1

ITEM	DESCRIPTION	QTY
10	NUT NYLOC HEX HD M4x0.7P	2
11	SMART PIN SILVER	1
12	HITCH BOX COLLAR COVER	1
13	TOWBALL 50mm	1
14	"D" SHACKLE 10mm	2
15	COMPLIANCE LABEL	1
16	LOAD RATING LABEL	1
17	WIRING LOOM	1

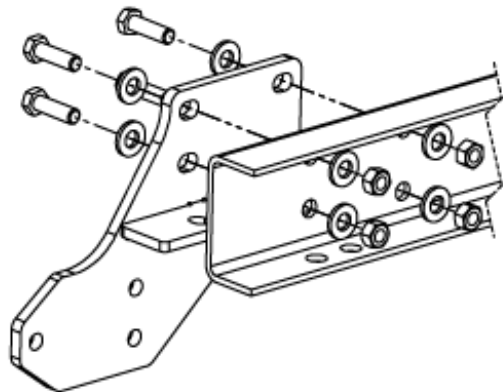
- 
1. On LHS of chassis rail, remove and discard recovery hook secured by 2 x M12 bolts.

Repeat for opposite side.



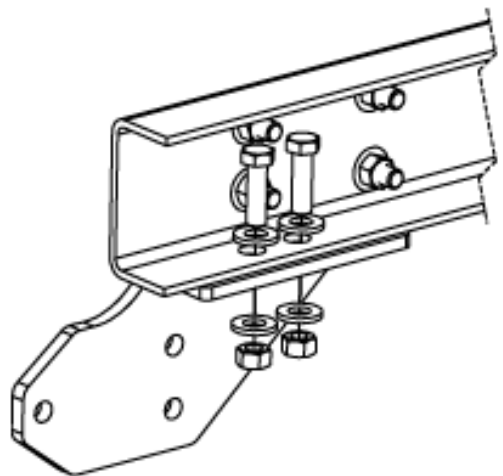
- 
2. Loosely secure LH side arm to chassis rail with 4 x M12 bolts on the outboard side of chassis rail, complete with 2 x M12 washers and 1 x M12 nut per bolt.

Repeat for opposite side.



- 
3. Loosely secure side arm with 2 x M12 bolts on underside of chassis rail, complete with 2 x M12 washers and 1 x M12 nut per bolt.

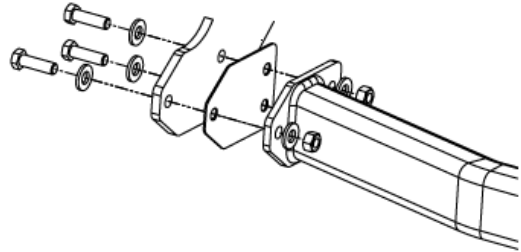
Repeat for opposite side.



- 
4. Using two people, lift towbar up to side arms and loosely secure with 3 x M12 bolts per side, complete with 2 x washers and 1 x nut per bolt.

Where necessary, insert shims provided (equal number per side) between side arms and towbar end plate.

Torque all M12 bolts to 89Nm

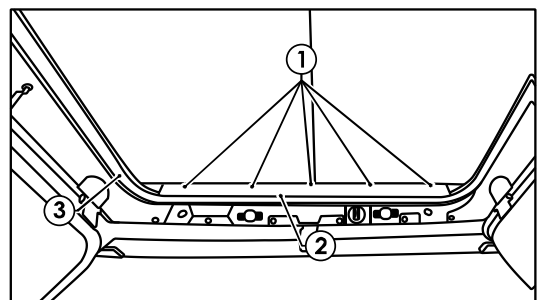


---

## IMPORTANT

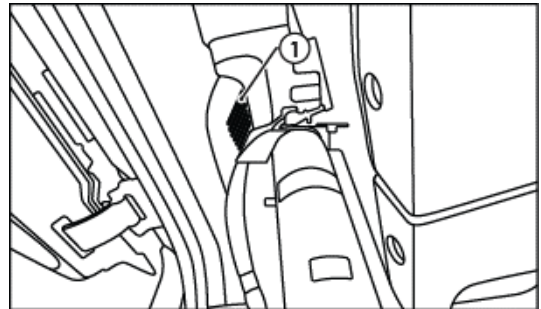
**Due to possible vehicle variations, always confirm any noted vehicle colour wires with a multi-meter to ensure the correct function is identified before soldering or scotch locking. For vehicle wires denoted with two colours (example; RED/GREEN) the first colour will always be the main wire colour while the second colour is the thinner trace colour on the wire.**

- 
5. At the back of the vehicle, remove 5x Screws (1) securing the Barn Door Trim (2).
6. Remove the Barn Door Trim (2).
7. Dislodge the Barn Door Seal (3) along the bottom of the vehicle access.

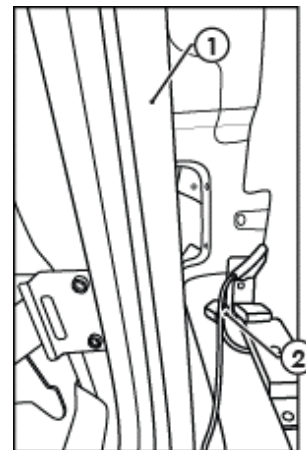


- 
8. Remove the LHS Tail Light Cover (1).

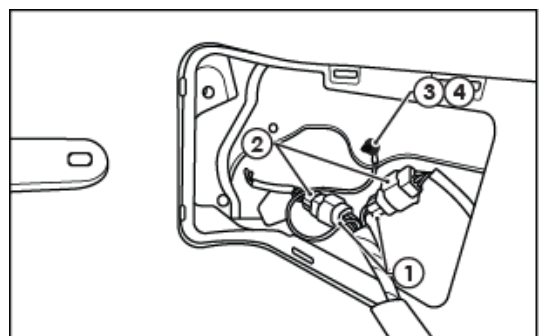
**Repeat for RHS.**



- 
9. Dislodge the LHS Rear Corner Trim (1) to allow access for LHS Tail Light Patch (2).
10. Feed through the LHS Tail Light Patch (2) towards the LHS Tail Light.
11. Connect the LHS Tail Light Patch of the patch harness (102849-WL) between the Vehicle LHS Tail Light Connectors.
12. Route the harness along the groove towards the RHS Tail Light.

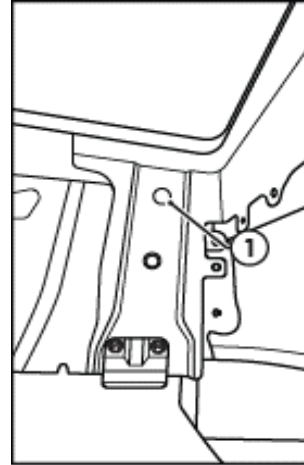


- 
13. Dislodge the RHS Rear Corner Trim to allow access for RHS Tail Light Patch.
14. Feed through the RHS Tail Light Patch towards the RHS Tail Light.
15. Connect the RHS Tail Light Patch (1) of the patch harness (102849-WL) between the Vehicle RHS Tail Light Connectors (2).
16. Secure the Ground Ring Terminal (3) on the Vehicle Earth Point (4).

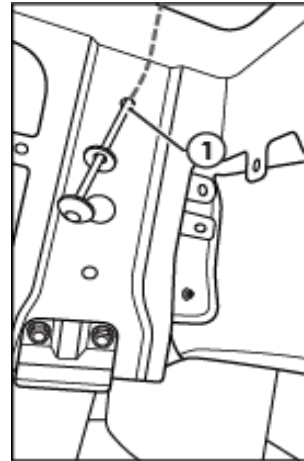


17. Underneath the rear RHS of the vehicle, locate the top Adhesive Tape (1) covering the hole on vehicle sheet metal.
18. Remove and discard the adhesive tape.
19. Drill out 15mm hole using a step drill.

**Note: File any rough or sharp edges, spray rust inhibitor.**

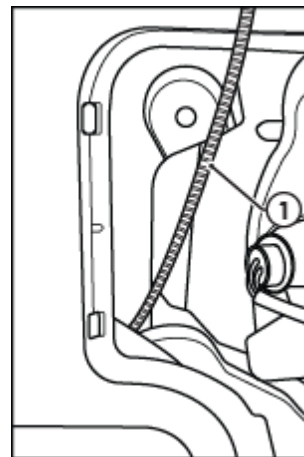


20. Feed a guided wire (1) through the previously drilled hole up inside the vehicle.



21. Tape the loose end of the patch harness (102849-WL) to the end of the guided wire (1).
22. Pull the guided wire with the patch harness down from underneath the vehicle.
23. Seat the grommet in the previously drilled hole.

**Note: Ensure the grommet is correctly seated and makes a good seal.**

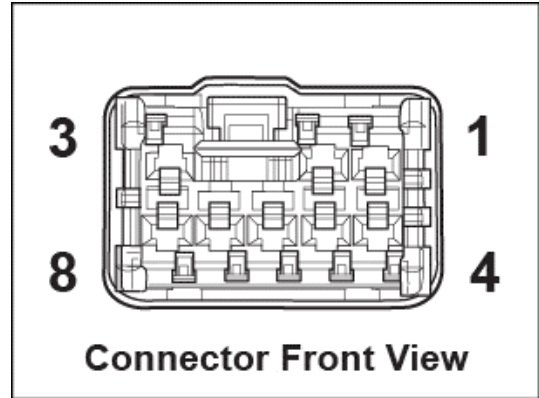




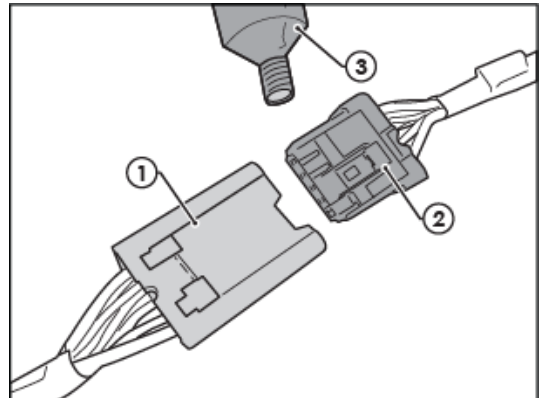
24. House the terminals into the Supplied 8-Way Connector following the diagram and the table.

TERMINAL	WIRE COLOUR	FUNCTION
1	YL	LHS Indicator
2	BK	Reverse
3	WH	Ground
4	GN	RHS Indicator
5	BL	Service Brakes
6	RD	Stop
7	BN	Tail

**Note: Ensure the wire colour matches the colour on the mating connector of the tail harness.**



25. Connect the tail harness (tail length 400mm) 8-Way Connector (1) to the trailer patch mating 8-Way Connector (2).
26. Use Silicone Grease (3) to seal the blue connectors.
27. Secure all harnesses using supplied cable ties.
28. Test the trailer patch function using a light board or multi-meter.
29. Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
30. 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 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)

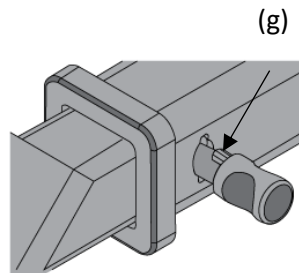
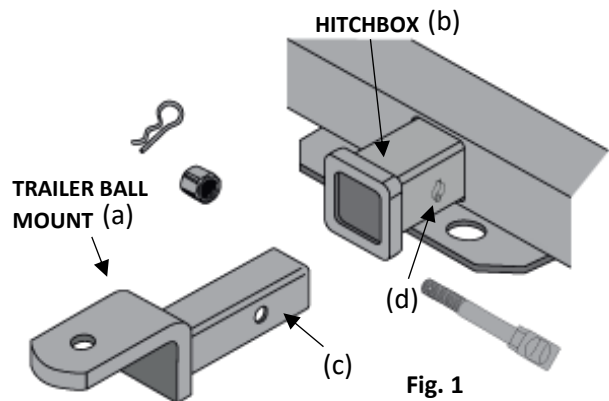


Fig. 2

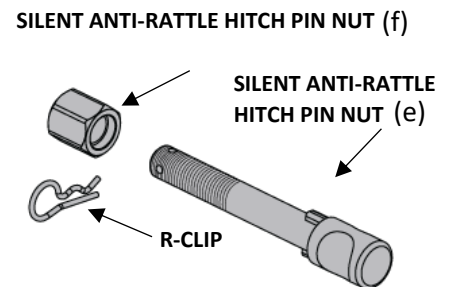


Fig. 3

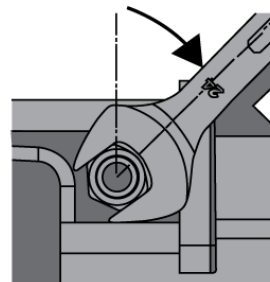


Fig. 4

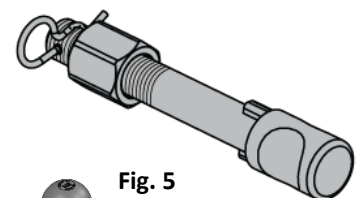


Fig. 5

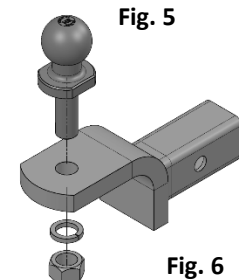


Fig. 6