TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER QT1150L

TOYOTA HILUX MY26 TRAY

PRODUCT DETAILS:

Part Number:	QT1150L	**Maximum Towing Braked:**	3500	kg
ECU Number:	04835	**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:**	NO
Total Installation Time:	90 Mins.		
Bumper Cut Required:	NO		

Note:

- Refer to owner's manual for RPA and BSD disable steps.

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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.

CORRECT

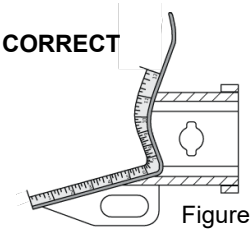


Figure 1

INCORRECT

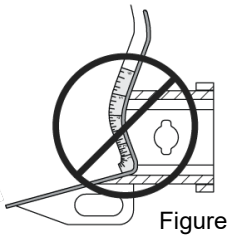


Figure 2

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.

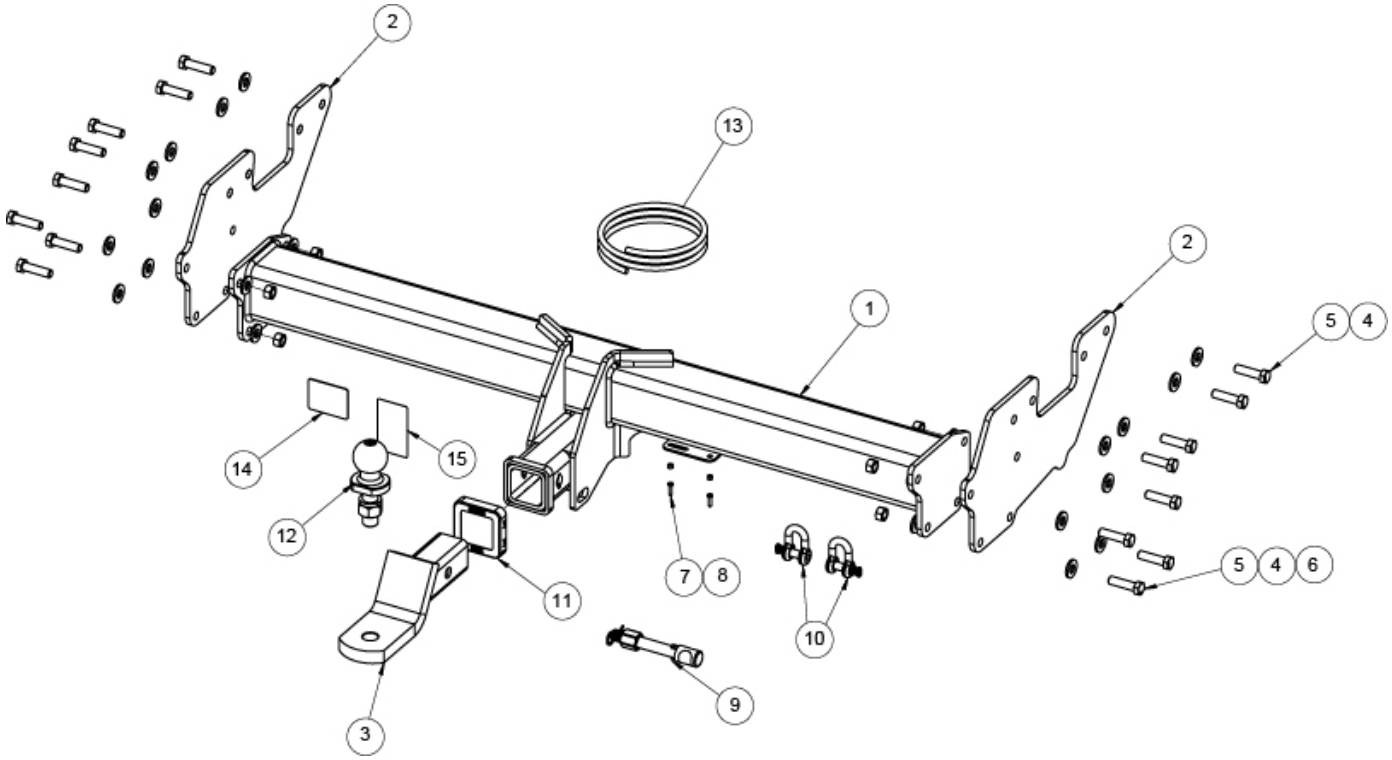
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TOWBAR INSTALLATION INSTRUCTIONS

PART NUMBER QT1150L

TOYOTA HILUX MY26 TRAY

TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	TOYOTA HILUX TRAY WELDED ASSY	1
2	SIDE ARM	2
3	TRAILER BALL MOUNT	1
4	WASHER PLAIN M12x27x3.0mm	24
5	SCREW HEX HD M12x45x1.25P G10.9	16
6	NUT HEX HD M12x1.25 G10	8
7	SCREW PAN HD M4x16x0.7P G4.6	2
8	NUT NYLOC HEX HD M4x0.7P G8	2

ITEM	DESCRIPTION	QTY
9	SMART PIN SILVER	1
10	"D" SHACKLE 10mm	2
11	HITCH BOX COLLAR COVER	1
12	TOWBALL 50mm	1
13	WIRING LOOM	1
14	COMPLIANCE PLATE	1
15	LOAD RATING LABEL	1

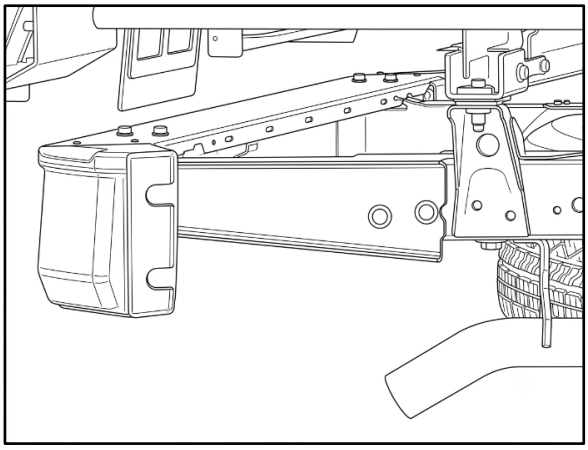
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1. Disconnect the wiring harness for the sensor bar at rear of the vehicle.

   Remove the 2 x M12 set screws securing the sensor bar at the rear of the chassis.

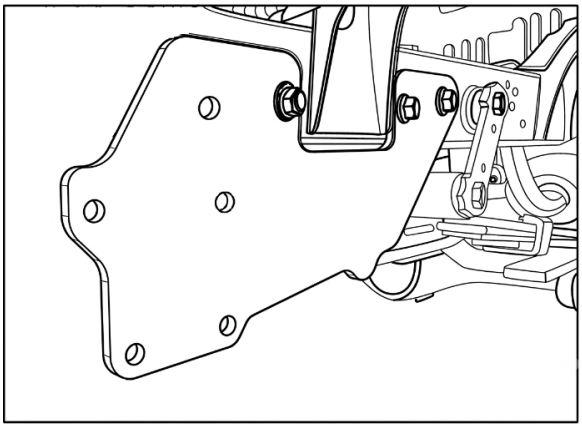
   Repeat for the 2x M12 set screws on the opposite side and remove the sensor bar.

   Discard the M12 set screws (do not reuse to fit the towbar).



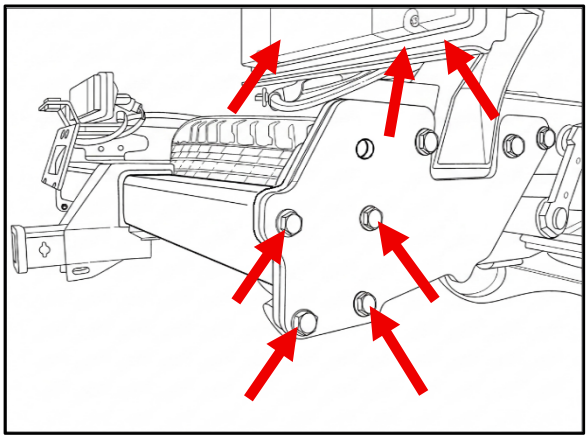
2. Loosely assemble the side arm to the chassis using the supplied M12 set screws and washers (skip the rear most chassis hole for now).

   Repeat for the opposite side.



3. Position the towbar between the side arms.

   Loosely assemble the supplied M12 set screws, washers and nuts to the towbar on both sides.

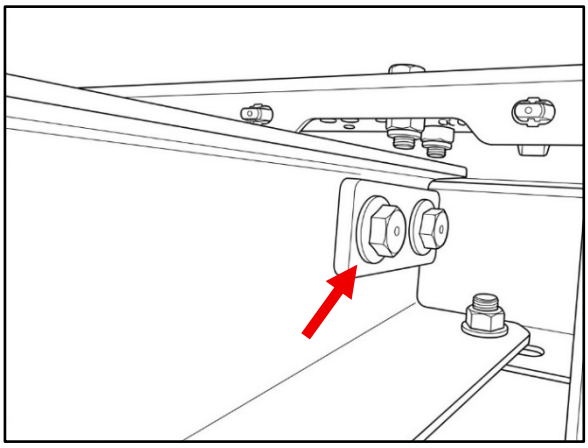


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4. Relocate the 8mm spacer on the outer side of the sensor bar bracket to the inner side of the bracket on both sides.

   This is done to spread the brackets further apart to fit over the towbar.

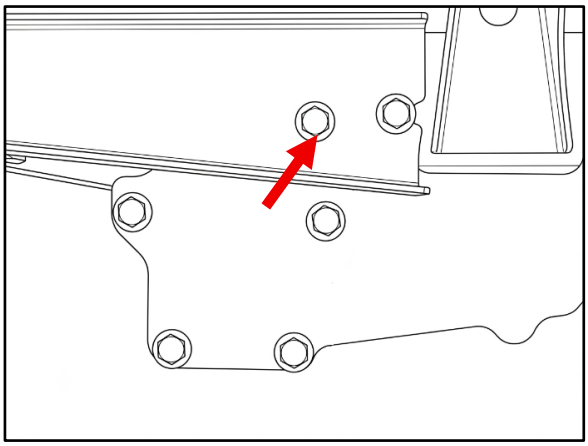
   Tip: Leave the bracket bolts loose until the next step to ease the fitment over the towbar.



5. Slide the sensor bar over the side arms and assemble the remaining M12 set screws and washers on both sides.

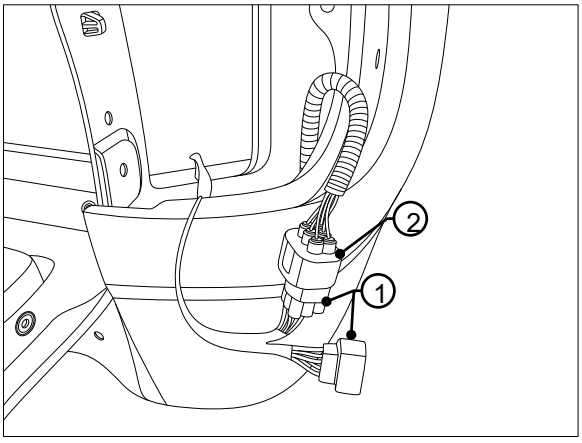
   Torque all M12 fasteners to 125Nm.

   Reconnect the sensor bar wiring harness.



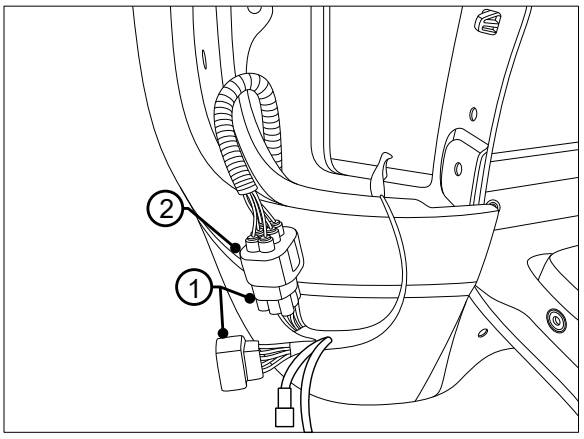
6. From underneath the vehicle, route the trailer patch harness (P/No: 101247-WL) connectors (1) up the RHS taillight cavity.

   Patch the trailer patch harness RHS connectors (1) to the taillight connector (2).



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7. Underneath the vehicle, route the trailer patch harness (1) over the support bar and along the vehicle harness towards the LHS taillight cavity. Patch the trailer patch harness LHS connectors (1) to the taillight connector (2)

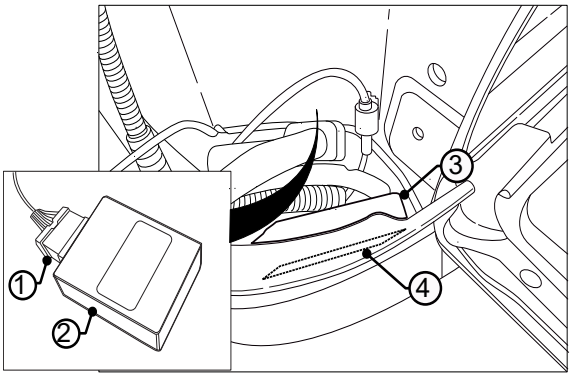


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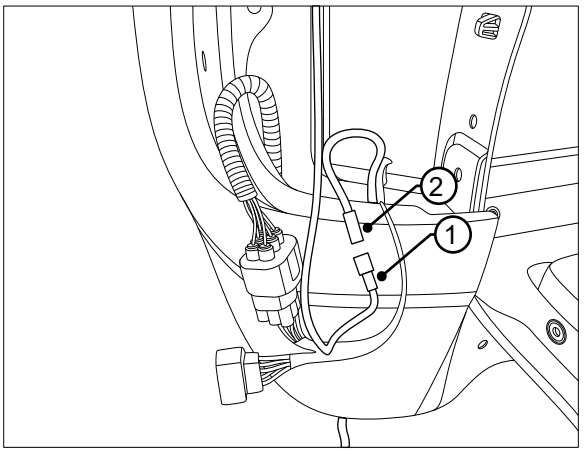
8. Connect the trailer patch connector (1) to the ECU (P/No: 04835) (2).

   Secure the ECU along chassis in a secure location using cable ties (not supplied).

   Ensure the ECU connector is pointing downwards.



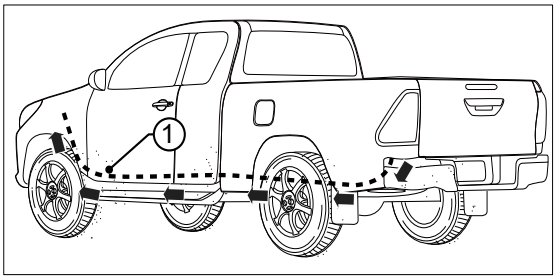
9. Connect the trailer patch ORANGE wire 1-way connector (1) to the Power Harness (P/No: 04825) mating 1-way connector (2).



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10. Route the power harness (1) along the LHS chassis rail to the engine bay.

    Ensure to secure harness away from any moving parts or sharp objects and sources of extreme heat with cable ties (not supplied).

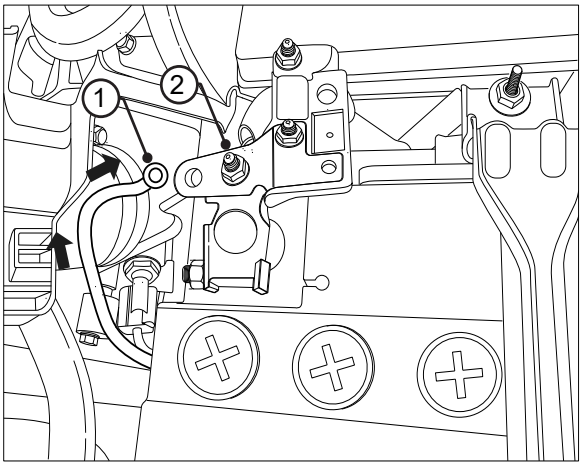


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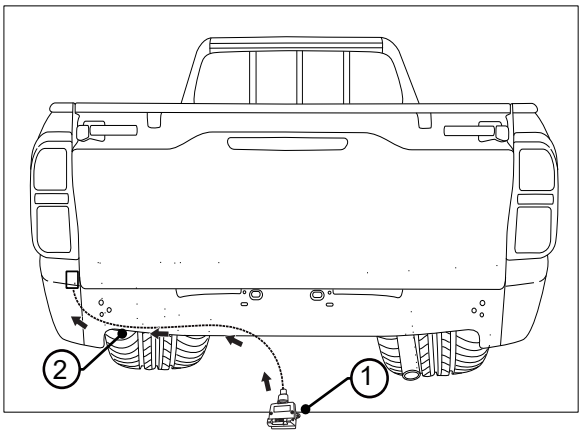
11. Route the power harness up to the battery.

    Secure the power harness ring terminal (1) onto the battery positive terminal fastener (2).

    Note: Be careful when removing the positive nut not to short your tool on the vehicle.



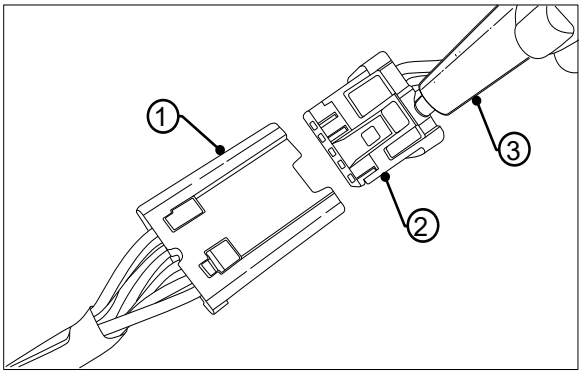
12. Route the tail harness (tail length: 1200mm) from the towbar (1) along the rear LHS of the vehicle (2).



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13. Connect the tail harness 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 silicone or grease (3) (not supplied).



14. Test the trailer harness function using a light board or multi-meter.

    Secure all harnesses using cable ties (not supplied).

    Re-fit all removed parts and secure all fasteners, ensure there are no squeaks or rattles.

    Place instructions in glove box after fitment.

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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.

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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)

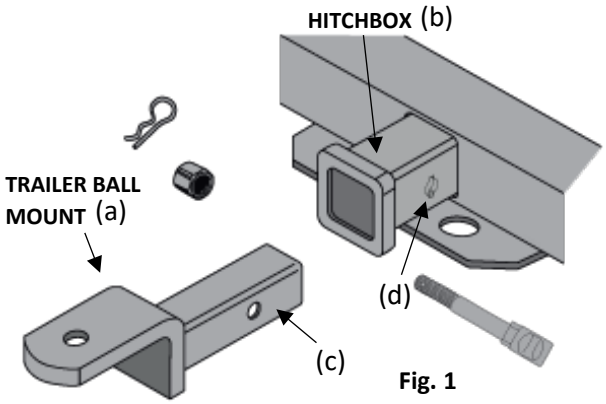


Fig. 1

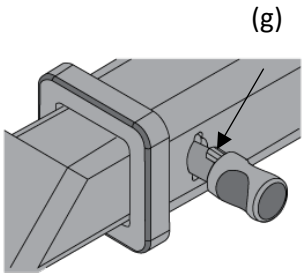


Fig. 2

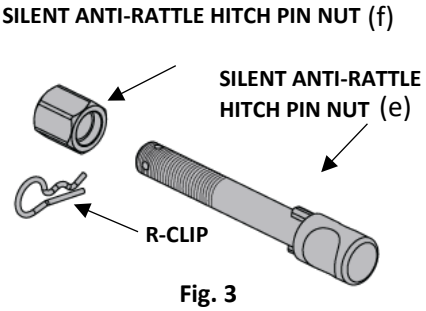
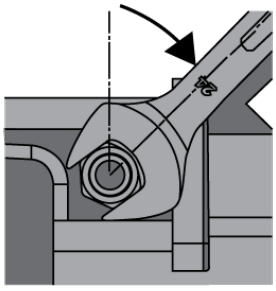
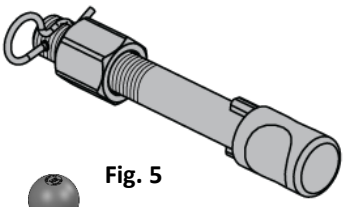
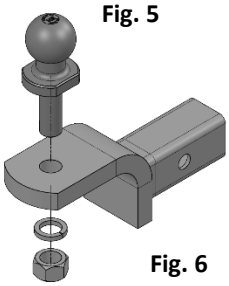


Fig. 3


Fig. 4


Fig. 5


Fig. 6

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