

PART NUMBER QT1140L

TOYOTA LANDCRUISER PRADO 150 CL4

PRODUCT DETAILS:

Part Number:	QT1140L	Maximum Towing Braked:	3000	kg
ECU Number:	04826	Maximum Towing Unbraked:	750	kg
Tail Harness Length Required:	1200 mm	Maximum Static Ball Load:	300	kg
TBM/Lug Part Number:	21161			

FITTING DETAILS:

Towbar Installation Time:	60 Mins.	RPA Disable/Other:	NO
Total Installation Time:	90 Mins.		
Bumper Cut Required:	No		

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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

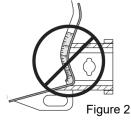
Vehicle and bumper variations can and do occur during vehicle manufacture after initial towbar design. Fitment of towbar to vehicle and accuracy of bumper cut must be assessed prior to any bumper modifications made. Incorrect bumper cuts are not covered under Trailboss warranty.

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).

CORRECT Figure 1





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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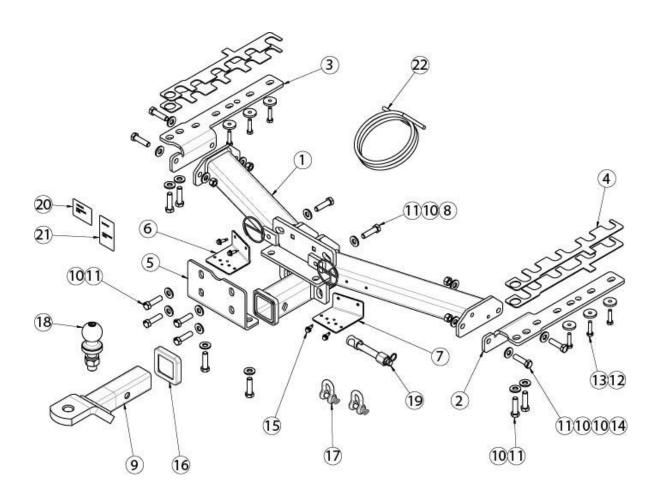
TOWBAR INSTALLATION INSTRUCTIONS

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TOWBAR ASSEMBLY DIAGRAM



ITEM	DESCRIPTION	QTY
1	PRADO 150 WELDED ASSY	1
2	SIDE ARM RHS	1
3	SIDE ARM LHS	1
4	SPACER PLATE	4
5	CLAMPING PLATE	1
6	PRADO 150 PLUG BRACKET, LH	1
7	PRADO 150 PLUG BRACKET, RH	1
8	M12x1.25P TAP PLATE WITH 300 WIRE	2
9	TRAILER BALL MOUNT	1
10	WASHER PLAIN 1/2"	20
11	SET SCREW HEX HD M12x45x1.25P	16

ITEM	DESCRIPTION	QTY
12	WASHER PLAIN 8x32x5mm	6
13	BOLT HEX HD M8x35x1.25P	6
14	NUT HEX HD M12x1.25P	4
15	TEK SCREW 14-20 HEX HD 22mm	4
16	HITCH BOX COLLAR COVER	1
17	"D" SHACKLE 10mm	2
18	TOWBALL 50mm	1
19	SMART PIN SILVER	1
20	COMPLIANCE LABEL	1
21	LOAD RATING LABEL	1
22	WIRING LOOM	1

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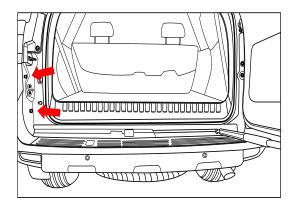
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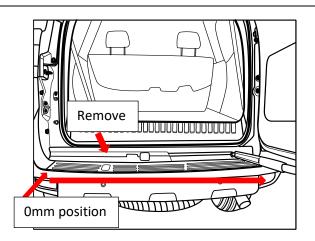
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- 1. Release the tailgate to expose the rear cabin.
- 2. On the LH side, remove 2 x scrivets located around boot opening.

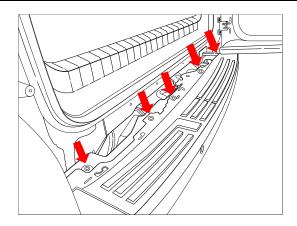


3. Using a trim removal tool, carefully extract the rear garnish from the top of the bumper.

To assist locating the clips. Measured from the left side edge of the step trim, the clip position are at these approximate positions: 60mm, 210mm, 350mm, 480mm, 800mm, 935mm, 1080mm and 1180mm



4. With the bumper fully exposed, remove 5 x set screws located behind the removed rear garnish.



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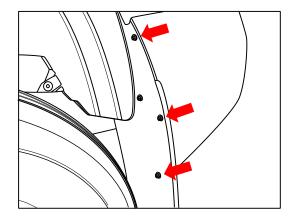
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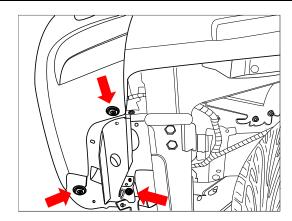
5. On the inside of the wheel arch, remove 1 x screw and 2 x scrivets.

Repeat for the other side.

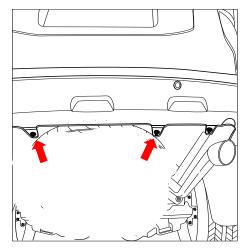


6. Underneath vehicle on the LH side, remove 3 x screws.

Repeat for the other side.



7. Remove 2 x screws from the rear bumper tabs.



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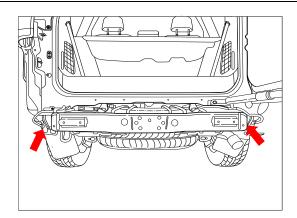
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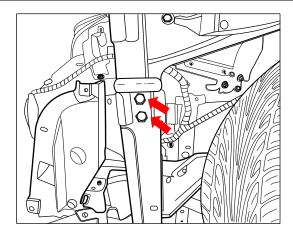
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8. Carefully unclip the bumper assembly from vehicle and set aside. Ensure to disconnect wiring harness connector and sensors connector located on the passenger and drivers side.

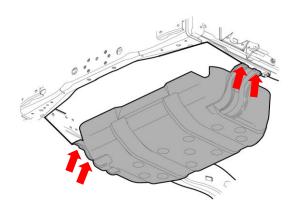


9. On the passenger side remove and discard the factory shipping hook secure with 2 x bolts.



10. Remove 4 x bolts securing fuel protector from underside of vehicle as shown and discard bolts.

Fuel protector will remain supported by a 5th bolt towards the front of vehicle. Leave this bolt and provide additional support if required.



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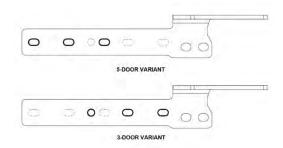
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11. Note the hole variation on the side arms for the specific vehicle prior to the next step.

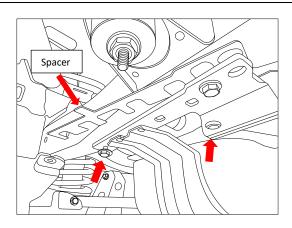
5-Door Variants: 3-Door Variants:



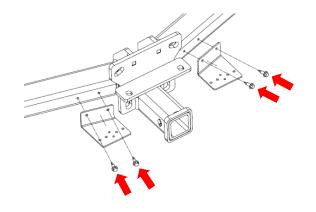
12. Loosely secure the LH Sidearm to chassis rail (2nd last mounting point) with 1 x M12 x 45mm bolt complete with 1 x washer and to the most forward position (vehicle specific) with 1 x M8 x 35mm bolt complete with 1 x washer.

Repeat for other side.

Use supplied spacer plates as required to ensure holes align to crosstube assy (refer to step 17). To install spacer plate, slide in the spacer between the side arm and bottom of chassis rail.



13. Fit the plug brackets to the crosstube with 2 x tek screw per bracket.



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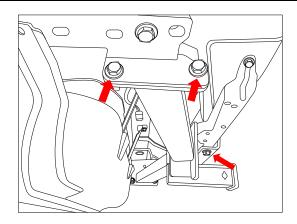
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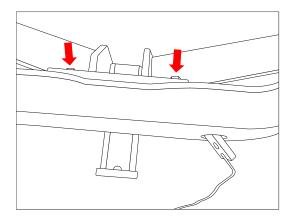
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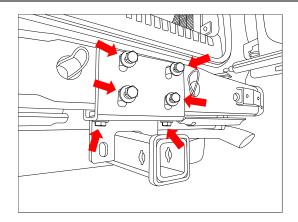
14. Lift the crosstube up to the side arms and loosely secure each side with 2 x M12 bolts complete with 2 x washers and 1 x nut per bolt. (You could temporally support the centre section with an M12 bolt to assist with this step)



15. Insert 2 x tapped plate on wire into the chassis rail and loosely secure the crosstube to the rear side of vehicle chassis with 2 x M12x45mm bolts along with 1 x washer and 1 x tapped plate per bolt.



16. Loosely secure the clamping plate along with the crosstube to the chassis rail with 6 x M12 bolts complete with 1 x washer per bolt. Ensure that the bottom bolts are relatively secure at this stage to determine is spacer plates are required for step 17.



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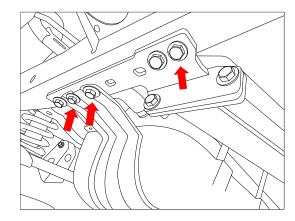
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17. Insert the spacer plates between the side arm and chassis rail if required (refer step 11).

Complete the side arm mounting along with the fuel tank protector to the chassis rail with 2 x M8 x 35mm bolts complete with 1 x washer per bolt and the rear most position with 1 x M12 bolt complete with 1 x washer per bolt.

Repeat for other side.



18. Starting with the crosstube centre bolts, torque all bolts to the torques listed below:

M12: 125 N.m M8: 22 N.m

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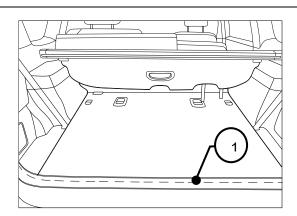
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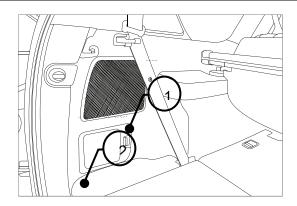
IMPORTANT

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.

19. In the luggage compartment, remove the rear trim (1) from the vehicle.



20. Remove the lower access panel (1). Remove the LHS luggage compartment trim clip (2) this will allow for dislodging the trim to access the rear quarter area.



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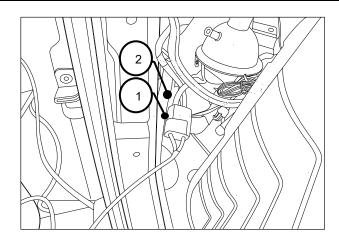
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TOWBAR INSTALLATION INSTRUCTIONS

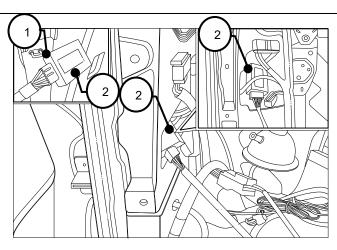
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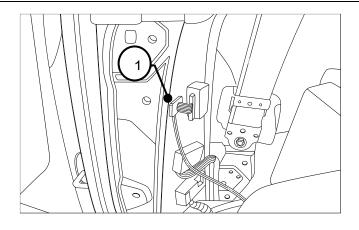
21. Connect the Trailer Patch Harness (P/No: 100210-WL) (1) to the vehicle breakout connector (2).



22. Connect the Trailer Patch Harness (1) to the ECU module (2). Adhere the ECU module (2) to the indicated location in the cavity below the LHS tail light. Ensure the ECU is mounted with the connector facing downwards.



23. Secure the earth ring terminal to the earthing point (1).



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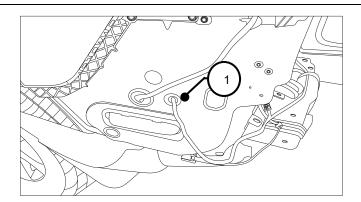
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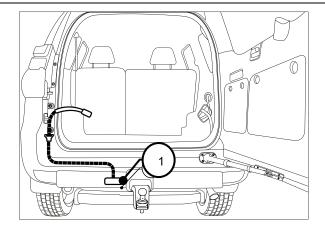
24. On the exterior LHS rear quarter area above the vent, drill the smaller existing vehicle grommet out to Ø30mm hole in the indicated location (1). File back any rough edges and apply rust inhibitor.



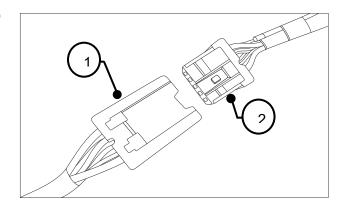
- 25. Secure the Tail Harness (Tail length 1200mm) trailer socket (1) to the towbar mounting bracket using M4 fasteners.
- 26. Route the Tail Harness over to the previously drilled hole and feed the connector into the vehicle.

Route to the exterior LHS grommet.

- 27. Adjust the harness grommet to the required position and secure grommet with a cable tie and then secure the grommet in place.
- 28. Secure the harness to the towbar using cable ties.



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



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TRAILBUSS® TOWBARS

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- 30. Test the body harness using a light board or multimeter.
- 31. Secure all harnesses using cable ties (not supplied).
- 32.Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
- 33. Place the instructions in the 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:

- 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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CUSTOMER INFORMATION

PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION

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

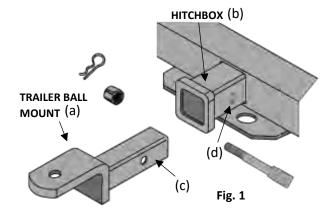
Screw Silent Anti-Rattle Hitch Pin (f) onto Smart Pin (g); tighten Smart Pin Nut until finger tight, ensuring TBM is restrained from up and down movement.

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)



(g)

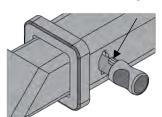




Fig. 3

R-CLIP

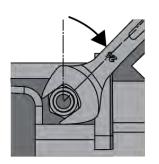


Fig. 5

Fig. 6

Fig. 4

Fig. 2

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