

TRAILBOSS

Towbar Fitting Instructions To Suit **HOLDEN VF COMMODORE UTE 2013 ON** Part Number **QTHD518L** Rating **1600/160 kg**

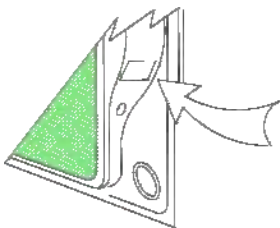
PLACE THESE INSTRUCTIONS IN THE VEHICLE'S GLOVEBOX AFTER INSTALLATION IS COMPLETED

WARNING:

1. Do not, drill, cut, weld or otherwise modify the tow bar.
2. If you are using electric welding on a motor vehicle, **always** check that the vehicle is not equipped with electronic engine or instrument management equipment. Failure to do so could **destroy** any onboard computers. If in doubt, check with the vehicle's manufacturer.
3. The high tensile fasteners supplied with this product were used to achieve the specified rating. If replacement is required ensure that fasteners of the same rating & quality are used. Contact an authorised **Trailboss** dealer if further information is required.
4. If TBM is used in inverted position tow ball may make contact with rear tailgate when lowered, which could cause damage.

General:

1. Ensure all hardware items have been included refer to assembly diagram.
2. It is recommended that the instructions are read through and completely understood before making any attempt to fit this product.
3. Be wary of any changes to vehicle designs or other accessories that may conflict with the installation of this product.
4. Before drilling ensure that the area is clear of fuel, electrical & other components.
5. All holes drilled into the body panels shall have all burrs & swarf removed then coated with a suitable rust preventative paint.
6. For vehicles that require the bumper to be cut. Ensure cut out area is in correct position on the vehicle prior to cutting the bumper.
7. The high tensile fasteners supplied with this product were used to achieve the specified rating. If replacement is required ensure that fasteners of the same rating & quality are used. Contact an authorized **Trailboss** dealer if further information is required.
8. Ensure that all hardware is fastened to torque list below check fasteners on regular basis.
9. Tow bar load rating sticker provided with this product shall be conspicuously located on inside rear end of the driver's door. **(See diagram below).**
10. Trailboss recommends that you check your tow ball to ensure that it complies with the Australian standards **AS 4177.2.**
11. **PLEASE NOTE:** It is advised to remove your lug or tbn when not actually towing so as to produce a clear view of the vehicles registration plate if obscured, and to also provide maximum available departure angle
12. Pull Pin must be fit in down position.



Place load rating sticker
inside driver's door here

FOR TRAILER TOWING PURPOSES ONLY
For towing capacity details please refer to vehicle owner's manual or to the manufacturer. Overloading can void your warranties.

RECOMMENDED ASSEMBLY TORQUE LISTING

<u>Diameter</u>	<u>Grade 8.8 Bolt</u>
M6	9.5 Nm
M8	21.7 Nm
M10	43.4 Nm
M12	77.3Nm
M14	146 Nm
M16	189.8 Nm

Tow bar Maintenance and Care.

Trailboss recommends that bolt torque's, as listed below, are routinely and regularly inspected and checked for correct tension. Replace any worn or defective parts.

We recommended to remove Tow Ball Mounts (TBM's, tongues or lugs) when not being used for any considerable length of time.

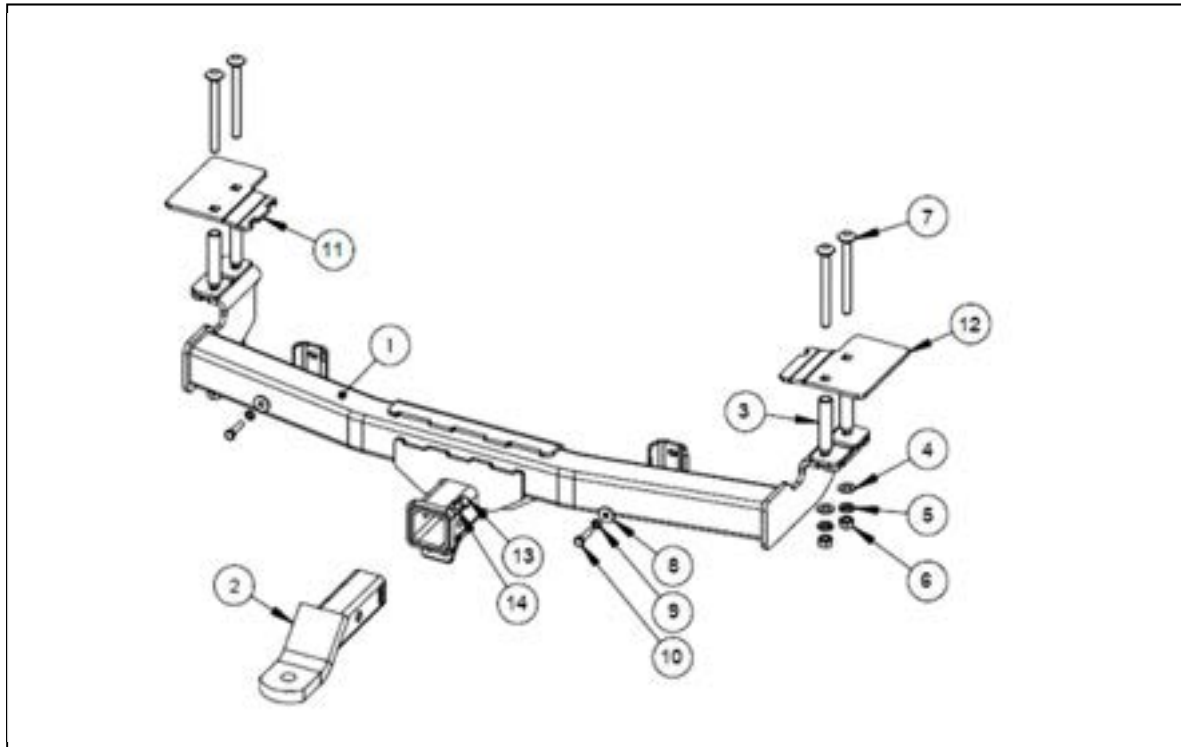
So as to avoid injury, when not towing it is suggested that the tongue, Pull Pin and R-clip are removed then stored in a safe, clean and dry place, away from excessive moisture.

Hitch Pull Pins and spring "R" clips are regularly checked for proper installation. Replace any worn or defective parts.

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QTY	DESCRIPTION	ITEM NO
1	WELDED ASSEMBLY	1
1	T.B.MOUNT 21161	2
4	SPACER TUBE	3
4	WASHER FLAT M14x28x3	4
4	SPRING WASHER 12x4x2.5	5
4	M12x1.75P NUT	6
4	M12x130x8.8 COACH BOLT	7
2	M8x19.5x1.6 WASHER	8
2	M8 SPRING WASHER	9
2	M8x30 BOLT	10
1	BOOT MOUNT PASSENGER SIDE	11
1	BOOT MOUNT DRIVER SIDE	12
1	M10x25 1.5P BOLT	13
1	NUT M10x1.5P	14


ADDITIONAL ITEMS




COLLAR COVER




PULL PIN




R CLIP




WIRING LOOM



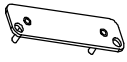
FITTING INSTRUCTION




LR LABEL



CP LABEL



PLUG BRACKET



NUT NYLOC

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INSTRUCTION:

1. Remove rear Tub liner from inside cargo area via

- Removing 3 x Phillips head screws at rear end of tub liner.
- Remove 2 x plastic trim plugs from rear end of tub liner each side.
- Remove 3 x ties down points each side of the tub liner via torx bolts.
- Compress tub at the sides then remove tub from the rear compartment of the utility so that easy access is gained to fit mounting system for towbar.

2. Fitment of crush tubes , boot plates & coach bolts

- Pass a screwdriver from underneath the vehicle through existing hole into the floor pan of the vehicle tray.
- Slide the crush tube over the screwdriver.
- Align the boot plate with existing holes inside floor pan of vehicle tray then pass the screwdriver through the square hole in the boot plate.
- Feed the M12 coach bolt through the square hole in the boot plate pushing the screwdriver out allowing the crush tube to remain inside the chassis.
- Repeat this for the three remaining mounting points inside the rear floor plan of the vehicle.

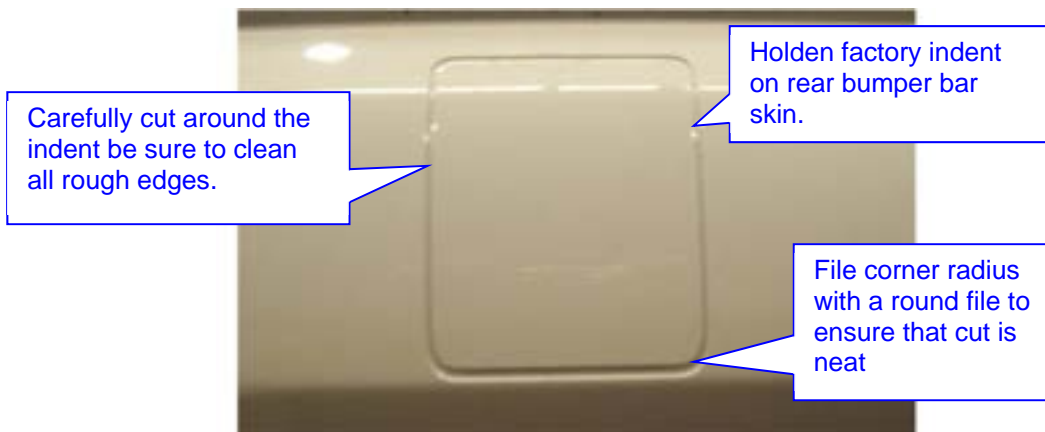
3.

Removal of rear bumper bar skin via

- From inside each wheel arch remove 1 x self tapper at the top of the wheel arch each side of the vehicle.
- 3 x self tappers inside each wheel arch to outer side of mud flap.
- 2 x plastic trim plugs each side of the of wheel arch underneath mud flap.
- Let the mud flaps hang at each side.
- Remove 4 x plastic trim buttons from underside of bumper bar skin.

4. Removal of rear bumper bar skin via

- Flex bumper bar skin out at the side then pull rear ward some force may be required caution two person lift required.
- Place the bumper bar skin on suitable bumper stands so not to damage ready for bumper cut.
- Using a small hacksaw or similar device carefully cut around the Holden factory indent in the rear fascia of the bumper bar skin.



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5. Fitment of Towbar to the vehicle via

- a. Remove & discard the lower of the two tailgate hinge retaining bolts.
- b. Remove exhaust bracket bolts, lower exhaust (LH & RH sides of vehicle) see fig 1
- c. Offer Towbar to the underside of the chassis rails so that the slots in the side arms align with the bolts hanging down through the chassis rails.
- d. Fasten loosely with washers & nuts provided.
- e. Fit M8 bolts & washers provided to lower section of the tailgate hinge, passenger side shown repeat for drivers side.
- f. Fasten the rear most M12 nuts first to the torque listing.
- g. Then fasten the rest of the bolts & nuts to the torque listing.
- h. Raise exhaust, refit exhaust bracket bolts. (LH & RH sides of vehicle) see fig 1



Fig 1

6. Refit the bumper bar skin via

- a. Carefully refit the bumper bar skin to rear of the vehicle so that the hitch box section fits through the cut out in the bumper bar skin.
- b. Caution two person lift required to refit the bumper bar skin.
- c. Refit all the fixings for the bumper bar skin in the reverse of steps 4a through to 3a.
- d. Refit the rear tub liner in the reverse of steps 1d through to 1a.
- e. Fit the trailer ball mount & pull pin with spring cotter pin as shown in the assembly diagram.



Wiring Loom Fitting Instructions
To Suit Holden Commodore VF Ute
Part Number 100972-WL

Wiring Loom Installation Instructions
Holden Commodore VF UTE

Part No: 100972-WL

ECU Required: 04839

Tail Harness Length Required: 1800mm

Wiring Loom Installation Time: Approx 20 Mins

Wiring Loom Fitting Instructions To Suit Holden Commodore VF Ute Part Number 100972-WL

1. At the back of the rear LHS, remove the LHS access panel to reveal the vehicle 8-way break-out connector and remove its blanking cap.
2. In the access panel cavity, drill a 30mm hole (1) into the vehicle sheet metal area. Connect the trailer patch (P/No: 100972-WL) connector (2) to the mating vehicle break-out connector (3).

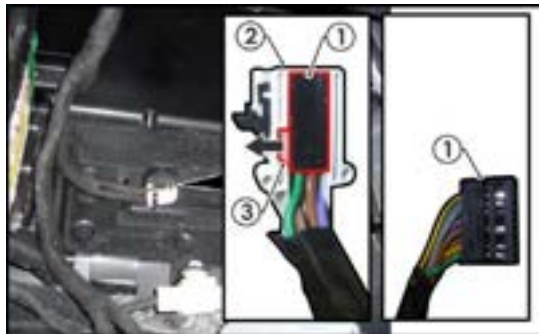


3. At the rear of the vehicle, secure the tail harness socket to the towbar mounting plate using the supplied M4 fasteners. Route the tail harness towards the LHS across the rear of the towbar, underneath the vehicle and into the tray through the previously drilled out hole ensuring the tail harness grommet is seated correctly.
4. Connect the tail harness 8-way connector to the trailer patch mating connector.
5. Inside the cabin, behind the passenger seat, locate the fuse panel covering and open it to gain access to the fuses underneath.
6. Remove the positive terminal (1) from the battery. Remove the nut (2) from above the fuse panel area and then dislodge the whole fuse panel (3) to gain access to the 18-way and 2-way connectors underneath the fuse panel. Remove the white secondary lock from the 18-way connector and connect to the supplied ECU harness 18-way mating connector ensuring the connector wires line up **GREEN to GREEN/BLACK**.

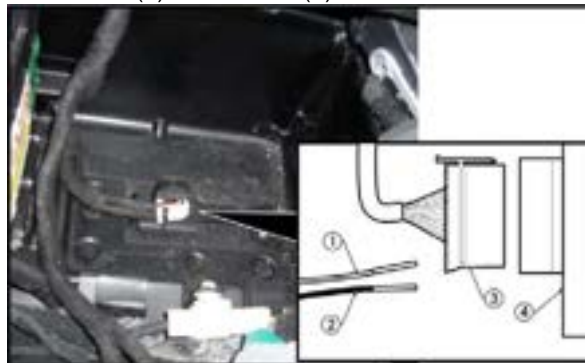


Wiring Loom Fitting Instructions To Suit Holden Commodore VF Ute Part Number 100972-WL

7. Cut the RED and BLACK wires off the 2-way break-out connector.
8. Crimp the supplied terminals onto the wires and then insert the crimped RED wire into pin 6 of the ECU harness connector and the crimped BLACK wire into pin 7 of the ECU harness connector.
9. Locate the black 18-way connector (1) with the white shell (2) and lift up the locking tab (3) from underneath and discard the white shell (2).



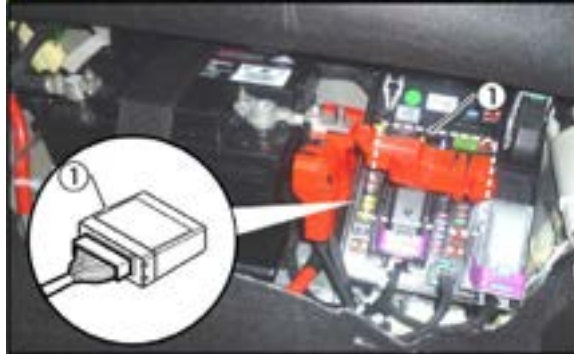
10. Connect the ECU connector (3) to the ECU (4).



11. Connect the black 18-way connector and connect to the supplied ECU harness 18-way mating connector ensuring the connector wires line up GREEN to GREEN/BLACK.

Wiring Loom Fitting Instructions To Suit Holden Commodore VF Ute Part Number 100972-WL

12. At the sheet metal area underneath the fuse panel location, mount the ECU (1) to a suitable location using double sided tape.



13. Test the trailer wiring harness function using a light board or multi-meter.
14. Secure all harnesses using cable ties (not supplied). Re-fit all removed parts and secure all fasteners, ensuring there are no squeaks or rattles.
15. Place the fitting instructions in the glove box after fitment.



FITTING INSTRUCTIONS

Silent Anti-Rattle Hitch Pin (PR0001)

• These fitting instructions are supplied to ensure understanding of how the HITCH PIN should be fitted and used correctly.

• Once installed, we recommend **ALL** instructions are kept and placed in the vehicle glove box.

NOTE: Routine maintenance and inspection of the towbar & HITCH PIN is required. Regularly inspect for wear and check the tightness of the Hitch Pin. Follow instructions below to retighten the nut when necessary.

***Do not tow with your vehicle if the R CLIP or the HITCH PIN is loose or missing. Replacement parts are available from your Pro Series Distributor.**

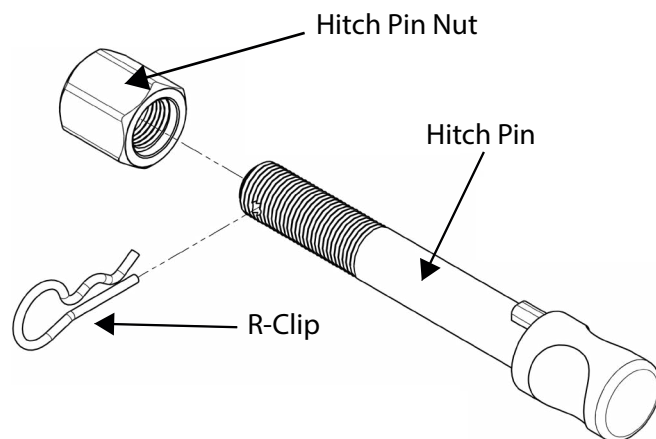


Fig 1. Silent Anti-Rattle Hitch Pin assembly

STEP 1

Insert Trailer Ball Mount (TBM) into towbar HITCHBOX, aligning hole in TBM SHANK with hole in HITCHBOX (Fig 2).

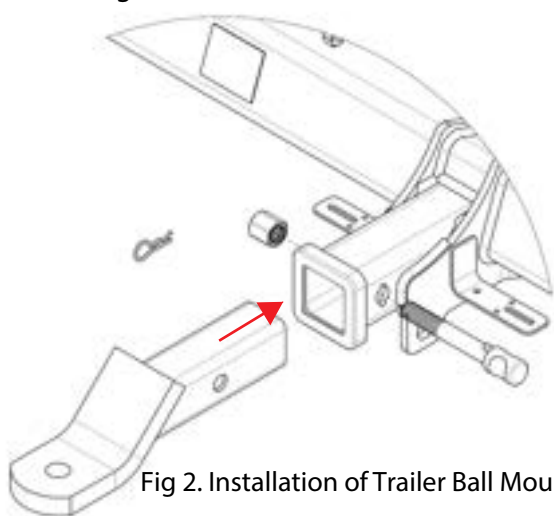


Fig 2. Installation of Trailer Ball Mount

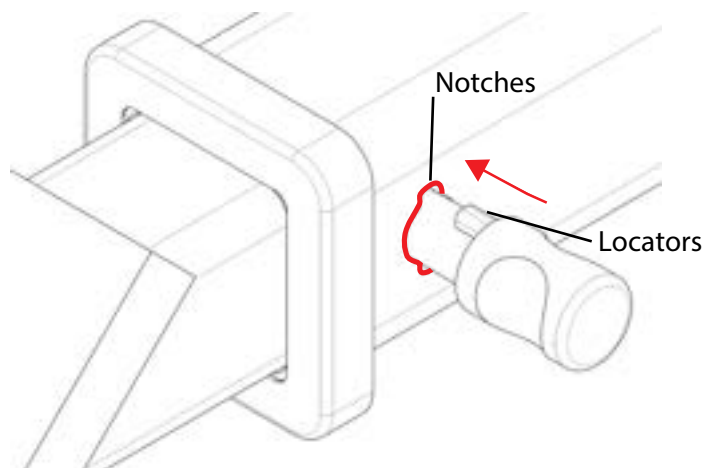


Fig 3. Silent Anti-Rattle Hitch Pin orientation

STEP 2

Insert HITCH PIN through hole in HITCHBOX and hole in TBM SHANK; ensure the LOCATORS are inserted into the NOTCHES in the HITCHBOX (Fig. 3).

STEP 3

Screw HITCH PIN NUT onto HITCH PIN ; tighten HITCH PIN NUT until finger tight, ensuring TBM is restrained from movement.

STEP 4

Tighten 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 HITCH PIN R CLIP through the hole on the HITCH PIN (Fig. 1).

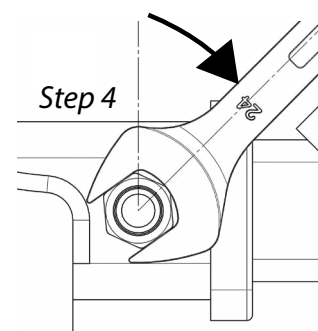


Fig 4. Tightening of Silent Anti-Rattle Hitch Pin Nut