



Towbar Fitting Instructions
To Suit **MAZDA CX7** 11-2009 on
Part Number **QTMA651L**
Rating **1600/100 kg**

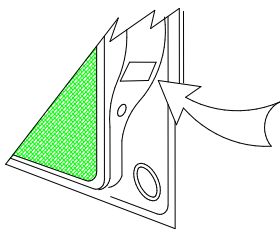
Towbar does not fit Diesel variants with AdBlue System

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.

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



Place load rating sticker
inside driver's door here

FOR 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

Diameter	Grade 8.8 Bolt
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.

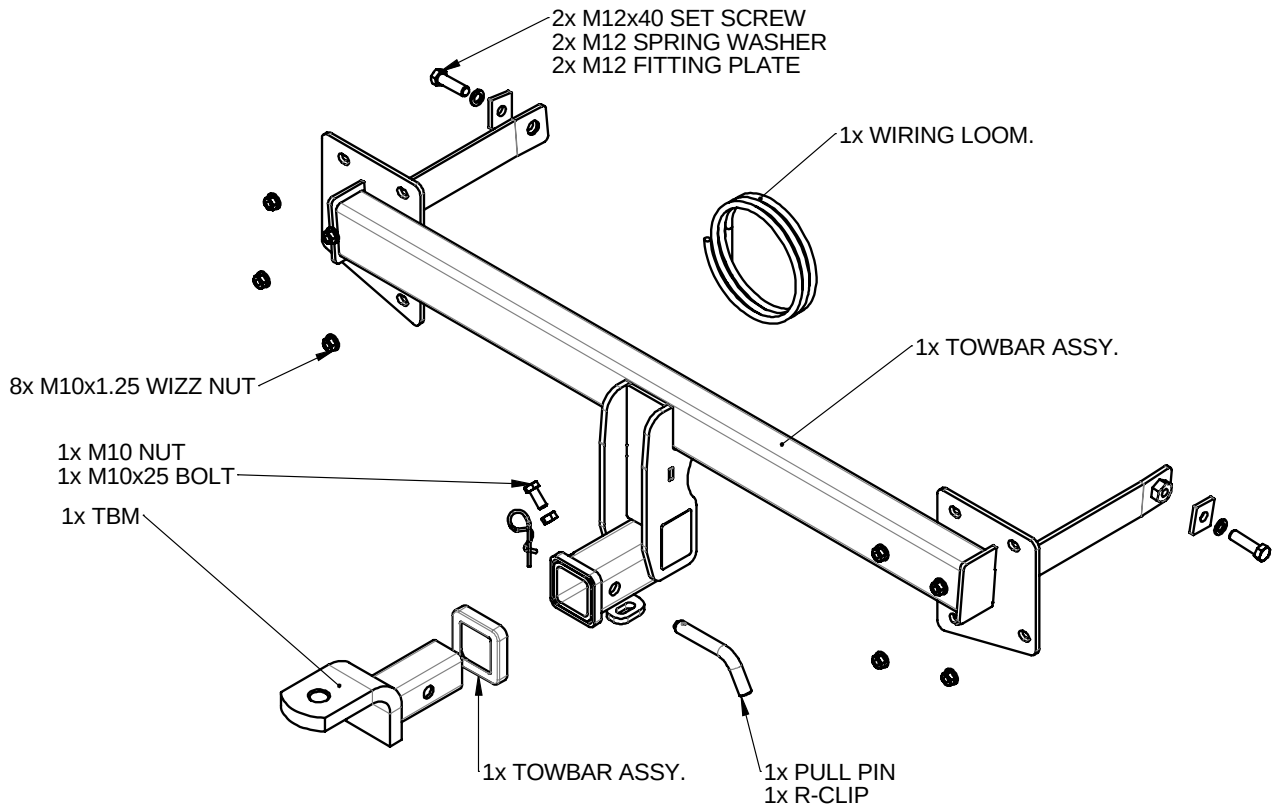
We recommended to remove Tow Ball Mounts (TBM's, tongues or lugs) when not being used for any considerable length of time.

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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12. Remove rear tail lights via

- Pull the trim then remove trim each side to expose inner tail light cavities so that access can be gained to remove 3 x M6 nuts each sides.
- Unplug tail lights in 3 places each side.
- Pull lights rearward some force may be required to remove store in a safe location.

13. Remove rear bumper bar skin via

- Remove 4 plastic trim buttons from the top of bumper inside the tail light cavity 2 each sides.
- Remove plastic inner guards each side to gain better access to vertical screw .
- Remove 4x M 5 screws inside wheel arch 1 at the top of the wheel in the vertical plane each side of the wheel arches.
- Remove 2 x M5 screws 1 each side from the underside of the wheel arches.
- Remove mudguards each side & store in a safe location.
- Remove 2 x plastic trim buttons from underneath the bumper bar.
- Flex bumper out at the sides then pull rearward to remove some force may be required then store bumper in a safe location **CAUTION two person lift required.**

14. Remove rear impact beam.

- Remove four M10 nuts from each side of rear impact beam.
- Remove the impact beam pulling reward some force may be required.
- Once chassis plates are inserted inside the chassis rails align the M11 hole up with the forward most existing hole on the outer side of the chassis.



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15. **Fitment of towbar via**

- a. Insert towbar inside chassis opening from the rear.
- b. Peel out most forward hold on the each side of chassis, Fit M12x40 set screw, M12 spring washer and loose plate (refer diagram).
- c. Fit 8 x M10x1.25 Wizz nuts to rear panel.
- d. Once all hardware is fitted tighten all fasteners to torque listing.

16. **Bumper cut detail**

- a. Cut square marking on factory cutout.

17. **Re-install the bumper bar via**

- a. **CAUTION two person lift required**
- b. Re fit the bumper bar in the reverse of steps 11g through to 11 a.
- c. Re fit the rear tail lights in the reverse of steps 12c through to 12 a.



Wiring Loom Fitting Instructions
To Suit Mazda CX-7
Part Number 100288-WL

Wiring Loom Installation Instructions

Mazda CX-7
Part No: 100288-WL

Tail Harness Length Require: 1200mm
RPA Override Switch Part No: 04848 (If Fitted)

Wiring Loom Installation Time: Approx 30 Mins



Wiring Loom Fitting Instructions
To Suit Mazda CX-7
Part Number 100288-WL

1. In the luggage compartment, remove the rear sunshade and floor carpet.
2. Remove the LHS and RHS tool trays and the luggage compartment rear trim.
3. Remove the LHS and RHS luggage compartment trim tail light connector access panels.
4. Locate and remove the rear RHS grommet next to the spare wheel.
5. Drill out the grommet hole to Ø31mm. File down any rough and sharp edges and spray on rust inhibitor.
6. Route the trailer patch harness (P/No: 100288-WL) underneath the LHS trim to the LHS tail light area. Note that the LHS branch only has two connectors. Disconnect the LHS indicator connectors and patch the trailer patch harness LHS connector in between.
7. Route the trailer patch harness across the rear of the vehicle and underneath the RHS trim towards the RHS tail light connectors. Disconnect all six RHS connectors and patch the trailer patch harness RHS branch connectors in between.
8. On the outside of the vehicle, mount the tail harness (tail length 1200mm) trailer socket, onto the towbar mounting bracket using M4 fasteners (not supplied).
9. Route the tail harness (tail length 1200mm) into the drilled out grommet hole.
10. Adjust the tail harness grommet so that it is seated securely. Secure the grommet onto the tail harness using a cable tie (not supplied).
11. Connect the trailer patch harness tail connector into the tail connector.
12. Secure the trailer patch harness ground ring terminal to the vehicle grounding location using the existing vehicle fastener.
13. Test the Trailer socket using a light board or multi-meter.
14. Secure the all harnesses using cables ties (not supplied).
15. Refit all removed parts and secure all fasteners.
16. Place instructions in glove box after fitment.



FITTING INSTRUCTIONS

Silent Anti-Rattle Hitch Pin (PRO001)

• 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.**

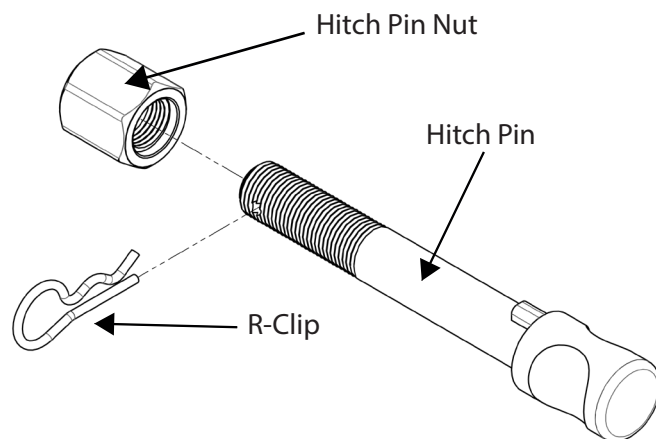


Fig 1. Silent Anti-Rattle Hitch Pin assembly

STEP 1

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

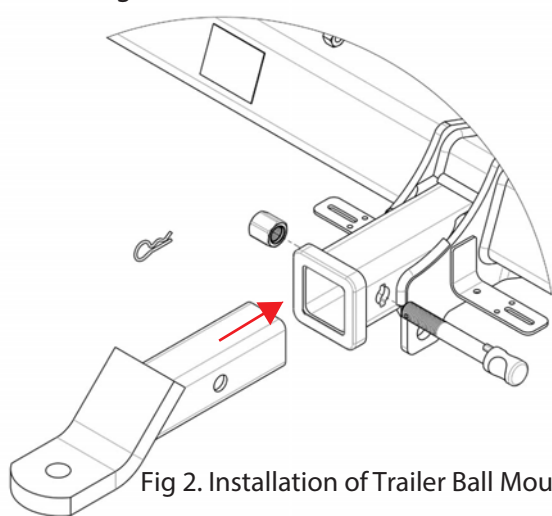


Fig 2. Installation of Trailer Ball Mount

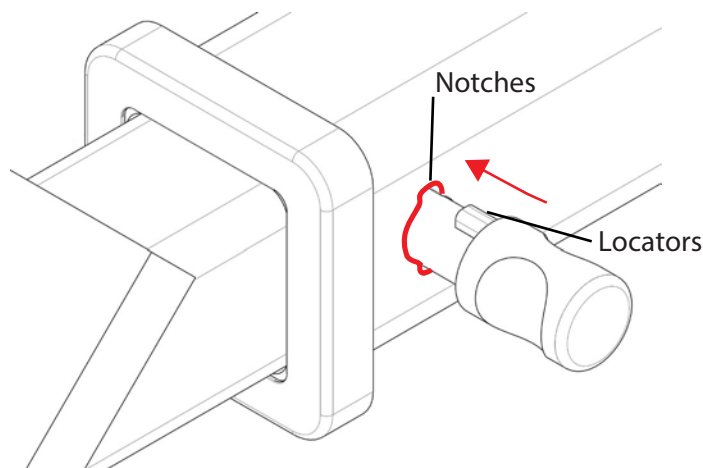


Fig 3. Silent Anti-Rattle Hitch Pin orientation

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).

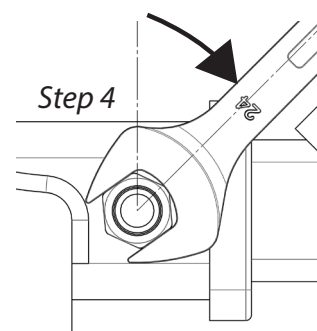


Fig 4. Tightening of Silent Anti-Rattle Hitch Pin Nut