

Installation guide

CM296: 4.5 Ton 70mm Tow ball



- The CM296 4.5Ton 70mm tow ball is machined with a 1 ¼' thread and shank requiring a receiver bar or tongue to suit the same.
- Prior to fitment, ensure that the hole diameter in the receiver bar is the correct size and has not been elongated or weakened/damaged.
- Check that the upper and lower surfaces of the receiver bar or tongue is clear of debris and not damaged by inclusions, rust or corrosion.
- Remove nut and washer from tow ball shank and slide tow ball ***shank*** into the hole in the receiver bar or tongue. The tow ball should rest atop the receiver bar ***flush with the top*** of the receiver bar and ***level***.
- The spring washer must then be slid onto the threaded shank of the towbar from the underside of the receiver bar or tongue prior to screwing the tow ball nut on.
- The torque setting for the nut is XXX Nm and must comply with the ADR 62/01.
- Once the tow ball, washer and nut are firmly in place, **ENSURE THE TOW BALL IS MOUNTED FLUSH WITH THE TOP OF THE RECEIVER BAR OR TONGUE.**
- To couple the trailer (fitted with the 70mm coupling) to the rear of the vehicle, reverse the vehicle via the aid of an observer to position the tow ball directly under the coupling of the trailer.
 - **Note:** The **LOWER SURFACE** of the coupling must be at a height from level ground greater than the **TOP OF THE TOW BALL** during coupling.
- Once the coupling is directly above the tow ball, lower the draw bar of the trailer onto the tow ball and allow the vehicle to assume the load of the trailer.
 - **Note:** Ensure that prior to testing the tow ball the Jockey wheel or jack stand supporting the draw bar of the trailer is fully retracted and does not infringe upon the normal operating areas of the trailer.

- With the Jockey wheel and/or Jack stand retracted and the weight of the trailer now on the tow ball, depress the coupling trigger and slide handle of coupling down ensuring the pin hinge locks into the cast gate on the side of the coupling.
- Finally, tighten the coupling head bolt until firm against the tow ball then loosen half of one turn and lock using the coupling head nut.
 - **Note:** ensure that the coupling head nut is loosen prior to screwing the coupling head bolt onto the tow ball
 - **Note:** A large flat screw driver will assist the owner with attaching the trailer to the vehicle
- Following the aforementioned steps, test the tow ball and coupling by slowly moving the connected vehicle and trailer forwards and in reverse while an observer visually inspects the connection for movement in the tow ball and/or coupling.
 - **Note:** Should the aforementioned step be adhered to but subsequently result in failure of successful installation of the tow ball, DO NOT USE THE TOW BALL, and immediately contact Couplemente or the nearest certified and registered Trailer repair centre or mechanic.
 - **Note:** If for any reason the installer is unsure of the aforementioned instructions, he or she should immediately DISCONTINUE INSTALLATION and contact Couplemente or the nearest certified and registered Trailer repair centre or mechanic.

List of supplied equipment:

1	X	4.5T 70MM TOW BALL
1	X	1 ¼" SPRING WASHER
1	X	1 ¼" TOW BALL HEXAGONAL NUT