

# Fitting Instructions



## SKU

**T7K794**

## PRODUCT

**TAG Heavy Duty Towbar  
for Kia Carnival (01/2021 - on)**

## SPECIFICATIONS

- Towbar Class: CL 4 Heavy Duty
- Towing Capacity: 2000kg
- Tow ball Weight: 200kg
- Approx. Fitment Time: 90 Minutes



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version of these  
instructions

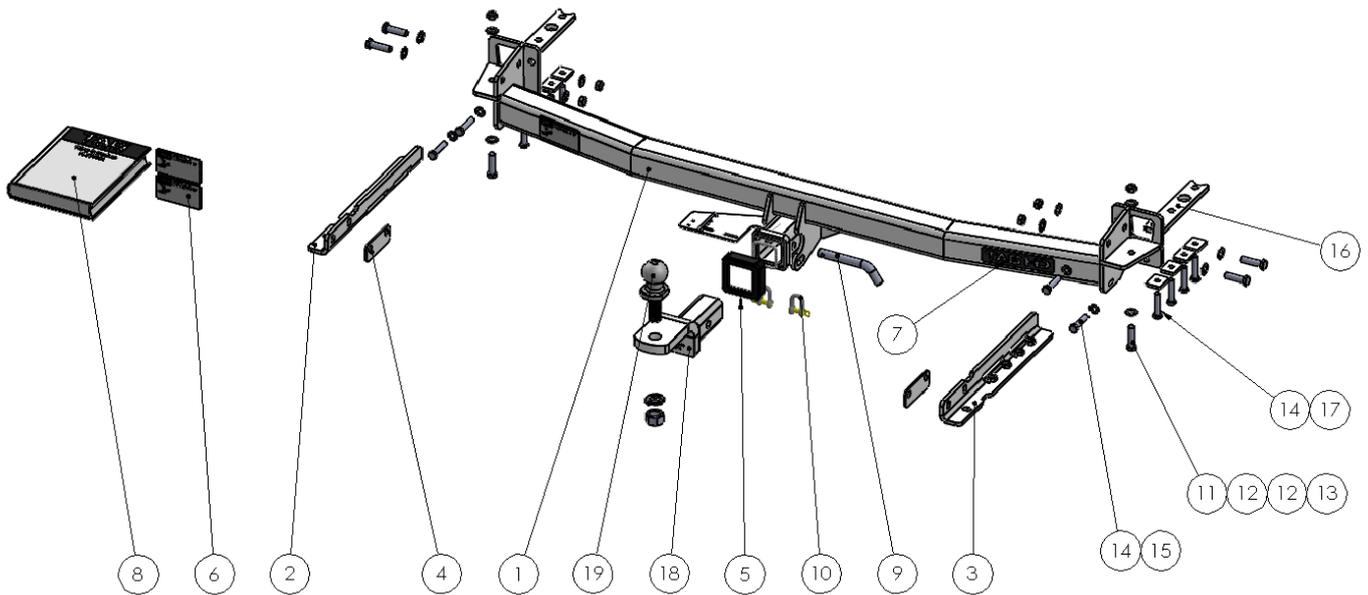
## TOOLS REQUIRED

- Spanners
- Sockets
- Air Saw or similar.
- Trim Removal Tool
- Torque Wrench

## IN THIS GUIDE

- Fitment Instructions
- Torque Settings
- Warranty Info

# Towbar Assembly



ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.
1	Main Bar Assembly	1	11	M12 x 1.25 x 45 Hex Bolt	6
2	Internal Chassis End Plate	1	12	M12 Flat Washer	12
3	Internal Chassis End Plate DS	1	13	M12 x 1.25 Nut	6
4	Spacer	2	14	M10 x 50 x 1.25 Bolt	12
5	Cover Hitch Receiver Collar TAG	1	15	M10 Flat Washer	4
6	TAG Compliance Sticker	3	16	Top Plate 40 x 32 x 6	8
7	TAG HD Sticker 150 x 33mm	1	17	Internal Chassis Base Spacer	2
8	Fitting Instruction	1	18	TAG Tow Ball Mount - L4120	1
9	Class 4 Pin & Clip	1	19	50mm TAG Tow Ball with Flat Edge	1
10	D-Shackle - 10mm. 1000kg	2			

# Important Information



## Warning:

- This product is for towing purposes only and must only be loaded as shown in your vehicle Owner's Manual.
- This towbar is NOT to be drilled, cut, welded, or modified in any way.
- Check behind chassis rail and body panels before drilling to ensure no hazards are present.
- All load ratings shown are under the assumption your trailer has a functional braking system installed.
- When installed in positions other than the one depicted in these instructions the Tow Ball Mount may interfere or obstruct certain features of your vehicle (tailgate opening, Chassis clearance, etc.)

## General:

- Before fitting this towbar read fitting instructions and check installation hardware is correct.
- Check that the towbar is suitable for the vehicle and be wary of any changes to the vehicle design that may conflict with the fitting of this towbar. (Tray, Canopy, Suspension etc.)
- After drilling, blow any filings clear, remove any burrs and treat exposed metal with a rust inhibitor.
- The high tensile fasteners supplied with this product are an integral feature to achieving the specified rating, if replacement is required ensure that fasteners of the same grade (8.8) & quality are used. Contact an authorised TAG distributor or the TAG fitment center - (07) 3208 3022 - if further information is required.

## Towbar Maintenance and Care:

It is recommended, when not in use, the Tow Ball Mount assembly and class 4 Pin and Clip is stored inside the car away from moisture to prevent standing water from forming rust. Inspect to ensure, on regular basis, fasteners are torqued to the specifications below and in good condition.

Ensure that the fitting instructions are read and understood prior to fitment, Following the fitment place these instructions in the vehicle's glovebox after installation is completed.

*Metric Bolt Torque Settings*

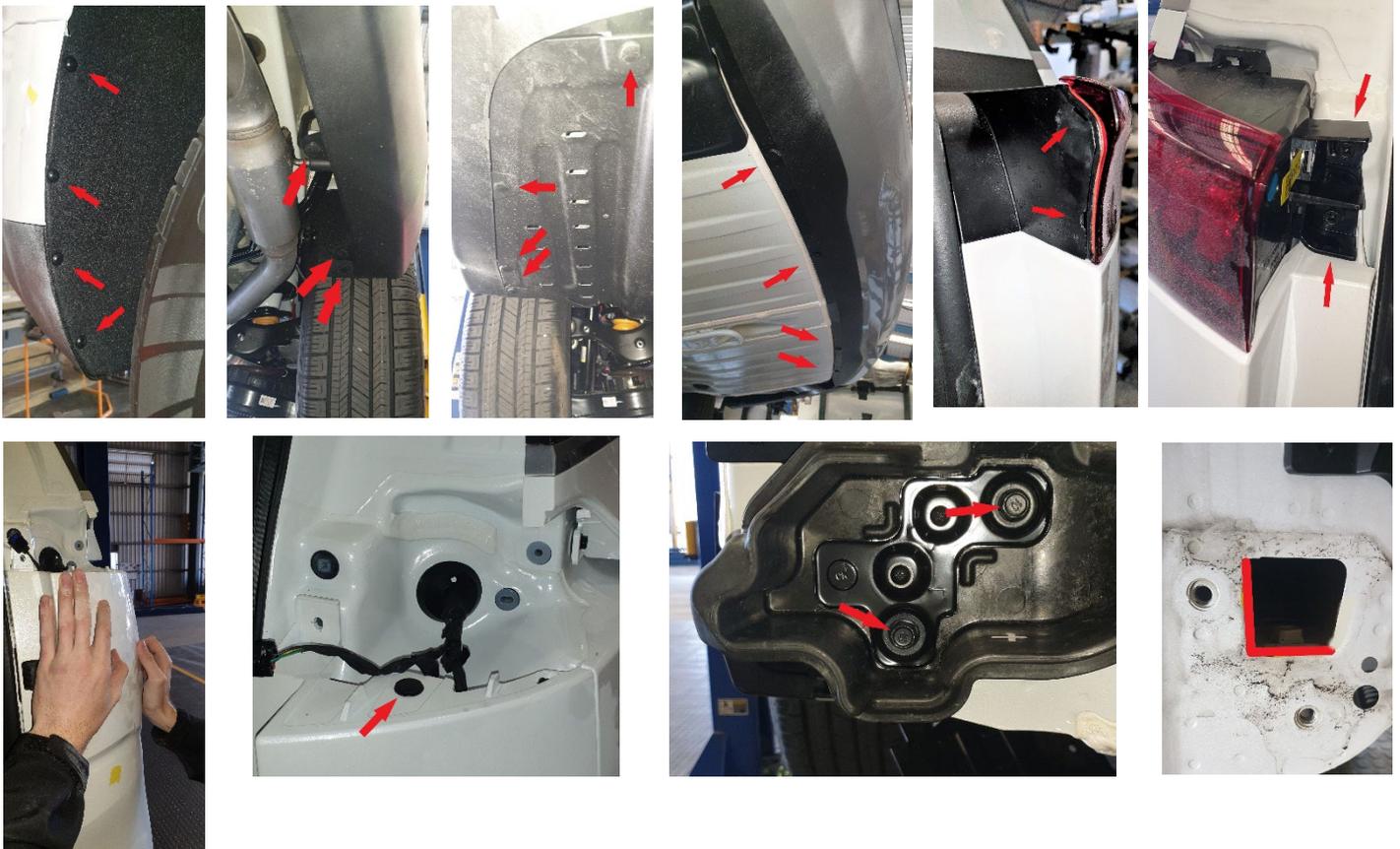
Diameter	Pitch	Grade	Torque	Unit		Diameter	Pitch	Grade	Torque	Unit
M8	1.25	8.8	29	Nm		M12	1.25	10.9	125	Nm
M10	1.25	8.8	57	Nm		M12	1.50	10.9	105	Nm
M10	1.50	8.8	44	Nm		M14	1.25	10.9	195	Nm
M12	1.25	8.8	101	Nm		M14	1.50	10.9	165	Nm
M12	1.50	8.8	97	Nm		M16	1.25	10.9	295	Nm
M12	1.75	8.8	77	Nm		M16	1.50	10.9	250	Nm
M14	2.00	8.8	122	Nm		50mm Tow Ball	N/A	N/A	300	Nm
M16	2.00	8.8	190	Nm		70mm Tow Ball	N/A	N/A	750	Nm

# Installation Instructions



## Step 1: Remove Rear Bumper & Crash Bar

- a. Remove 4 Phillips screws from each wheel arch.
- b. At the bottom of DS bumper, behind wheel arch, remove 3 scrivets.
- c. At the bottom of PS bumper, behind wheel arch, remove 4 scrivets and 2 screws fastening the plastic shield.
- d. Disconnect harness on PS above plastic shield.
- e. Remove the remaining scrivets from the bottom rear of the bumper.
- f. Lift tail gate.
- g. Carefully remove the plastic covers from each taillight assemblies.
- h. Remove 2x Phillips screws from each light assembly & remove rearward. Disconnect the harness.
- i. Remove 1x scrivet from each light cavity.
- j. Release bumper from the vehicle body at wheel arch and follow around to taillight location. Note: Vertical clips can be difficult, push bumper out & upward from the rear to release. See pic.
- k. Remove and discard crash bar and 4x M10 bolts.
- l. Refer to the photo and mark the chassis opening. Using an air saw or similar, remove the sheet metal. Treat the raw edges of the cut metal with an anti-rust paint.



# Installation Instructions



## Step 2: Fit Towbar

- Insert the 10mm spacers into the chassis/ towbar end plate holes ensuring they sit around the captive nuts inside the chassis. Ensure the crescent shaped cut-out is toward the front of vehicle.
- Insert the bent internal chassis plates through the hole in each chassis. Loosely fasten from below the chassis with 4x M10x 1.25x 50 bolts and flat plates.
- Lift the main bar assembly up to the rear panel and over bent chassis plates. Loosely fasten to the rear panel with 2x M10 bolts & washers per side.
- Insert the 3mm spacers between the main bar and the bent chassis plates and loosely fasten with 3x M12 bolts per side.

**Note: The rear-most horizontal bolt must point toward the center of vehicle otherwise the reverse sensor harness plug will foul on thread of bolt.**

- Tighten all bolts in the following sequence.
- M10 Chassis bolts.
- M12 vertical bolt on the outside of the main bar.
- M10 bolts in rear panel.
- M12 Main bar to side arm horizontal bolts.



## Step 3: Cut Bumper

**Note: The towbar installer is ultimately responsible for the location & quality of the bumper cut. To avoid mistakes, please use the following measurements as a guide only. We suggest making small incremental cuts and regularly test fit the bumper to ensure an accurate and tidy appearance. The additional application of rubber pinch-weld around the cut edge ensures a neat & tidy look.**

- Establish the centerline of the bumper and mark.
- Mark the bumper cut 45mm either side of centerline & 115mm up from the bottom.
- Cut the bumper with an air saw or similar. Deburr all cut edges.
- Reinstall bumper in reverse of steps 1a-h.
- Attach plastic hitch surround.
- Insert ball mount & secure with pull pin & clip.



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## Step 4: Apply Compliance Label

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Apply one of the compliance labels to the pillar of the driver's door. Leave the remaining label and the fitting instructions in the vehicle handbook.



# TAG Warranty Statement



SWD warrants your TAG Towbar for its full product life under the following conditions:

- You can show proof of purchase.
- The towbar has been correctly installed by a suitably qualified installer.
- The towbar has not been modified or abused in any way and has only been used for the purpose intended.
- The towbar was not fitted second hand to your vehicle.

The extent of this warranty includes materials and workmanship used in the manufacture of the towbar and is to the equivalent value of current, full replacement cost.

Nothing stated or implied in this warranty limits in any way, the statutory rights that you may have.

To make a claim visit the original installer in the first instance or, if you are unable to or are not satisfied with their help, then contact us direct by phone on 1300 669122 or visit [www.swd.com.au](http://www.swd.com.au).