

Fitting Instructions



SKU

PRODUCT

T4K659

**TAG Heavy Duty Towbar to suit
KIA Carnival (02/2015 - 08/2020)**



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version of these
instructions

SPECIFICATIONS

- Towbar Class: Standard Duty
- Towing Capacity: 2000kg

IN THIS GUIDE

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- Torque Settings
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Step-By-Step Instructions

Warning:

Safety First: Always use correct safety equipment.

This towbar is NOT to be drilled, cut, welded or modified in any way.

Check the surrounding area before drilling into chassis or body panels for fuel lines, wiring harnesses and other components that may be a hazard.

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.

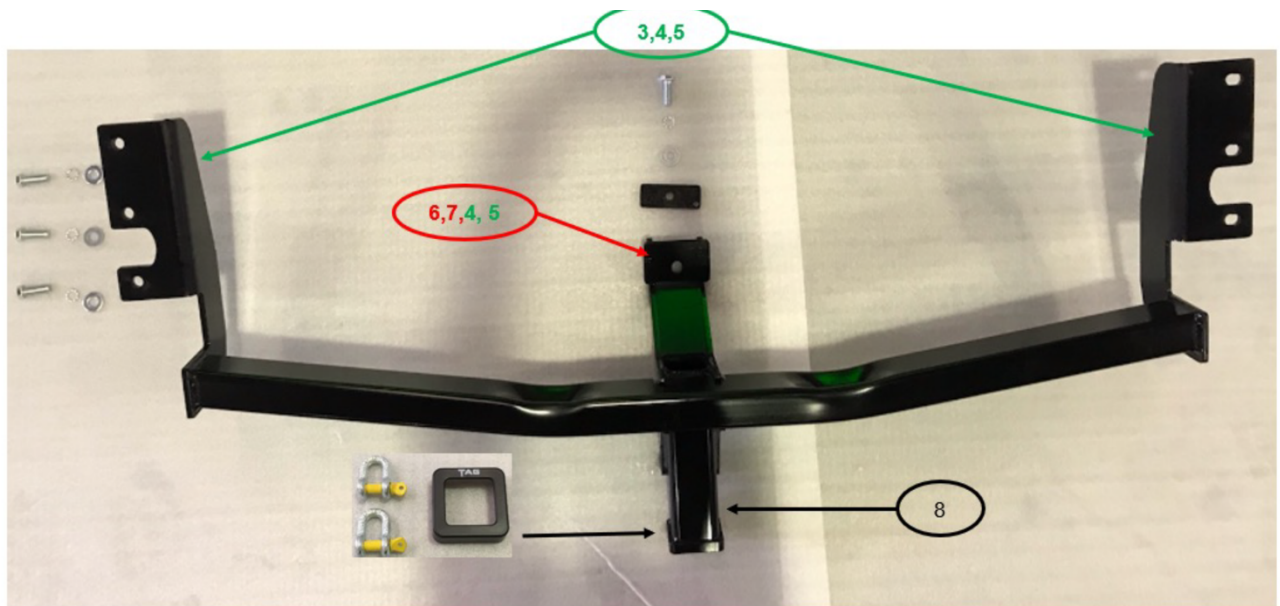
After drilling, blow any filings clear, remove any swarf and treat exposed metal with a rust inhibitor.

If this vehicle requires a bumper cut out, please check to make sure that you measure twice and check twice before cutting any panels as some bumper profiles can change.

If you are not sure then ask your towbar supplier.

Tighten all bolts as specified on the last page.

Towbar Fitting Instructions



<u>Item Number</u>	<u>Item</u>	<u>Quantity</u>
1	Towbar – T4K659	1
2	Ball Mount – L4120	1
3	M12 x 1.25 x 35 Bolt	6
4	M12 Shake proof washer	7
5	M12 Flat Washer	7
6	½" x 1 ½" Pitch Bolt UNC	1
7	Plate with ½ Pitched Thread UNC	1
8	Class 4 Pin & Clip	1

Tools Required: Spanners, Screwdriver, Sockets, Torque wrench

Step-By-Step Instructions

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 swarf 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 centre - (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
Place these instructions in the vehicle's glovebox after installation is completed

Towbar Fitting Instructions



Step 1. Remove Bumper

- a. Open tailgate.
- b. Remove plastic trim on taillight assembly to reveal 2x hex screws.
- c. Remove hex screws & taillight & disconnect the harness.
- d. Remove 1x plastic scrivets from each taillight cavity.
- e. Remove 4x phillips head screws from each wheel arch.
- f. Remove 13x plastic scrivets from the underside of the bumper.
- g. Beginning at each wheel arch carefully unclip the bumper from the body and gently pull rearward of the car to remove bumper.
- h. Remove the crash bar via 4x nuts per side and set aside for refitment.
- i. Mark the rear panel for cutting as per the picture provided. Cut the rear panel using an air saw or similar. Make sure to deburr and treat cut edges with a suitable anti rust solution.



Step 2. Fit Towbar

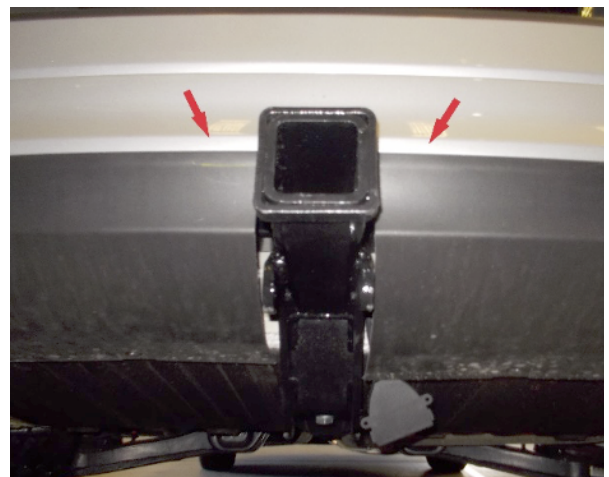
- a. Lift towbar up to chassis and align with holes in bottom of chassis. Centre will sit against shipping hook.
- b. Insert M12x35 bolts with washers and secure the towbar loosely
- c. Place M12 tapped plate over shipping hook and loosely secure with M12x 40 bolt with washers.
- d. Tighten all bolts to torque specification on back page.
- e. Re-install impact bar with original fasteners.



Step 3. Cut Bumper Bar

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.

- a. Establish the centreline of the bumper and mark.
- b. Measure 45mm either side of centre and 50 mm down from the 1st body contour as per photo.



Towbar Fitting Instructions



- c. Cut the bumper using an air saw or similar. Deburr the cut edges.
- d. Attach plastic hitch surround.
- e. Insert ball mount and secure with pull pin & clip.
- f. Reinstall bumper in reverse of steps 1a-g.

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

Step 4. Apply Compliance Label

- a. 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 ha



Torque table for bolt tightening

Diameter	Pitch	Grade	Torque	Unit
M8	1.25	8.8	29	Nm
M10	1.25	8.8	57	Nm
M10	1.50	8.8	44	Nm
M12	1.25	8.8	101	Nm
M12	1.50	8.8	97	Nm
M12	1.75	8.8	77	Nm
M14	2.00	8.8	122	Nm
M16	2.00	8.8	190	Nm
Imperial Bolt Torque Settings				
$\frac{3}{8}$ "	UNC	8	44.75	Nm
$\frac{1}{2}$ "	UNC	8	108.5	Nm

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