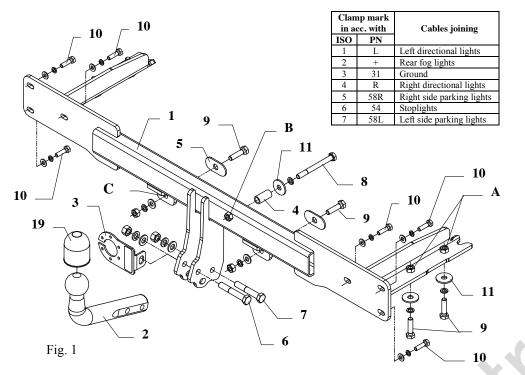
FITTING INSTRUCTION



This towing hitch is designed to assembly in following cars: **KIA CARNIVAL (UP) VAN**, produced since 1997 till 04.1999, catalogue no. **T14** and is prepared to tow trailers max total weight up to 2000 kg and max vertical load 80 kg.

From manufacturer

Thank you for buying our product. Their reliability has been confirmed in many tests. Reliability of towing hitch depends also on correct assembly and right operation. For this reasons we kindly ask to read carefully this instruction and apply to hints.

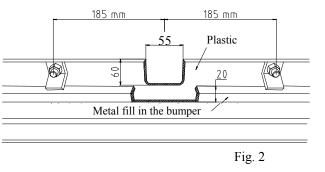
The towing hitch should be install in points described by a car producer.

Torque settings for	nuts and bolts (8,8):
M 8 - 25 Nm	M 10 - 55 Nm
M 12 - 85 Nm	M 14 - 135 Nm

The instruction of the assembly

- 1. Disassemble a bumper and a spare wheel.
- 2. From the bumper, twist off the brackets (they will not reassembled).
- 3. Insert the main bar of towing hitch in the chassis and fix with M12x40mm (pos. 9) bolts in marked points (pos. A).
- 4. Through the holes (pos. B and C) drill to ø10,5 mm hole. From the inside, drill the hole (pos. B) to ø17 mm.
- 5. Disassemble the towing hitch an then join with the bumper after previous cut a fragment in the bumper. Look the fig. 2.
- 6. In this way prepared towing hitch with the bumper apply to the chassis again and fix through hole pos. A.
- Apply the distance sleeve ø17, L=35mm (pos. 4) to the hole (pos. B) and fit with the M10x100mm (pos. 8) bolt. By the holes (pos. C) fix by M10x40mm (pos. 9) bolts and longitudinal washers (pos. 5).
- 8. Fix the tow-ball (pos. 2) and the socket plate (pos. 3) using bolts M12x75mm (pos. 6) and M12x70mm (pos. 7).
- 9. Fix tight all bolts according to the torque shown in the table.
- 10. Connect the kit wires to the electric installation, in accordance with the instructions of the car.

11. Complete the possible decreases of the paint cover of hitch, originate during the installation.



NOTE

After install the towing hitch you should get adequate note in registration book (at authorised service station). The car should be equipped with:

- Indicators
- Tow mirrors

After 1000km check all bolts and nuts. The ball of towing hitch must be always kept clear and conserve with a grease.

Part list:

Pos. 1 Main bar	Pos. 5 60x30x3mm	Pos. Bolt 8,8 B 10 M8x30mm	R C	Pos. Spring washer 15 ø12mm	Â
PCS.:1	PCS.:2	PCS.: 6	0F	PCS.: 2	\bigcirc
the line	Pos. Bolt 8,8 B M12x75mm PCS.: 1	Pos. Washer 11 PCS.: 5	0	Pos. Spring washer 16 ø10mm PCS.: 7	Ø
Pos. Tow ball Pcs.: 1	Pos. Bolt 8,8 B 7 M12x70mm PCS.: 1	Pos. Plain washer 12 ø12mm PCS.: 2	\bigcirc	Pos. Spring washer 17 PCS.: 6	Ø
Pos. Socket plate	Pos. Bolt 8,8 B M10x100mm PCS.: 1	Pos. Plain washer 13 Ø10mm PCS.: 2	0	Pos. Nut 8 B 18 M12 PCS.: 2	Ø.
Pos. Distance sleeve 4 Ø17xØ12,5mm L=35mm PCS: 1	Pos. Bolt 8,8 B 9 M10x40mm PCS.: 6 0	Pos. Plain washer 14 PCS.: 6	0	Pos. Nut 8 B 19 M10 PCS.: 2	ØĴ
				Pos. Ball cover 20 Pcs.: 1	\bigcirc



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Towing hitch (without electrical set)

Class: A50-X Cat. no. T14 Designed for: Manufacturer: KIA Model: CARNIVAL Type: (UP) VAN produced since 1997 till 04.1999

Technical data: D-value: 11,6 kN maximum trailer weight: 2000 kg maximum vertical cup load: 80 kg

Approval number according to Directive 94/20/EC: e20*94/20*0289*00

Foreword

This towing hitch is designed according to rules of safety traffic regulations. The towing hitch is a safety component and can be installed only by qualified personnel. Any alteration or conversion of the towing hitch is prohibited and would lead to cancellation of design certification. Remove insulating compound and underseal from vehicle (if present) in the areas of the matting surfaces of the towing hitch. The vehicle manufacturer's specifications regarding trailer load and max. vertical cup load are decisive for driving, and values for the towing hitch cannot be exceeded.

D-value formula:

$$\frac{\text{Max trailer weight [kg]}}{\text{Max trailer weight [kg]}} \times \frac{\text{Max vehicle weight [kg]}}{\text{Max trailer weight [kg]}} \times \frac{9.81}{1000} = D [kN]$$