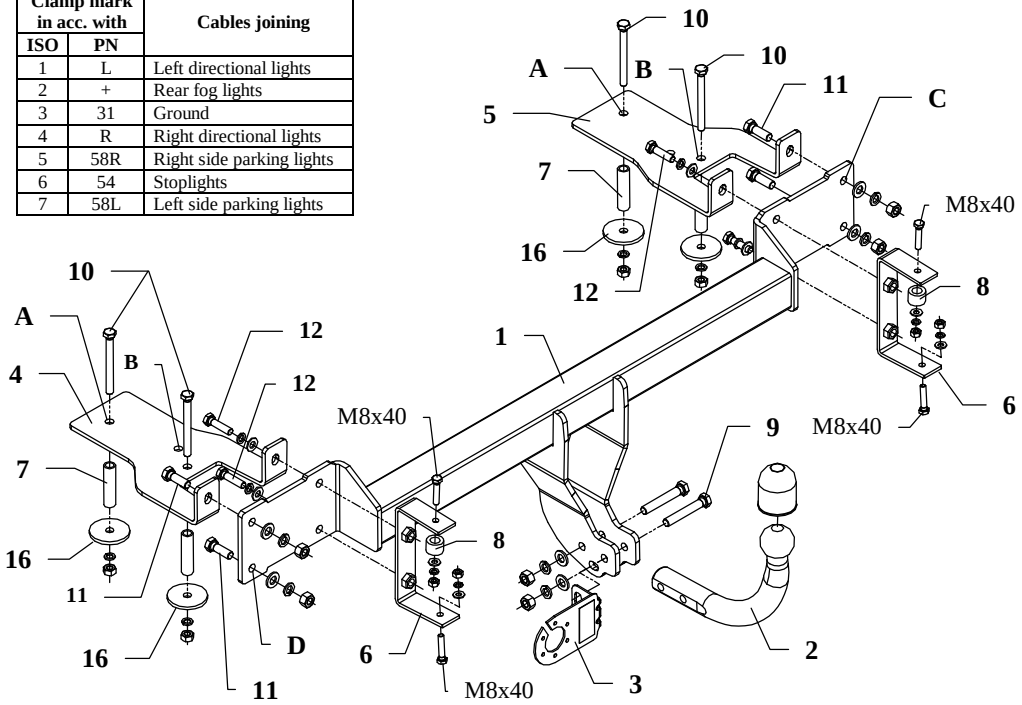
# FITTING INSTRUCTIONS

| Clamp mark in acc. with | | Cables joining |
|---|---|---|
| ISO | PN | |
| 1 | L | Left directional lights |
| 2 | + | Rear fog lights |
| 3 | 31 | Ground |
| 4 | R | Right directional lights |
| 5 | 58R | Right side parking lights |
| 6 | 54 | Stoplights |
| 7 | 58L | Left side parking lights |




This towbar is designed to assembly in following car:
**KIA CLARUS 4 door,** produced since 1996 till 01.1999, catalogue no. **T07** and is prepared to tow trailers max total weight **1650 kg** and max vertical load **75 kg**.

***From manufacturer***

Thank you for buying our product. Their reliability has been confirmed in many tests. Reliability of towbar depends also on correct assembly and right operation. For this reasons we kindly ask to read carefully this instruction and apply to hints.
*The towbar should be install in points described by a car producer.*

## Fitting instructions

1. Disassemble bumper .
2. Remove carpet from the boot.

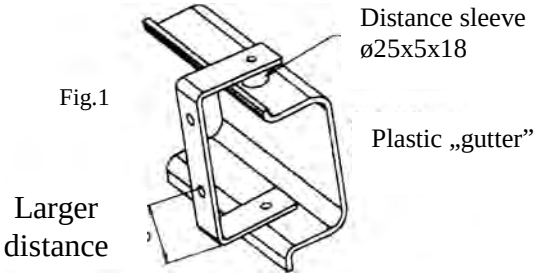



Fig.1

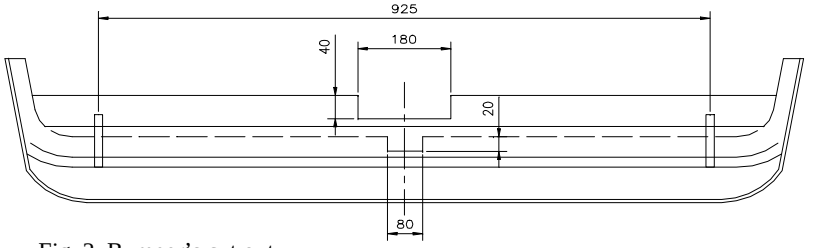



Fig. 2. Bumper's cut out

3. Put elements (pos. 4 and 5) to the trunk as shown in the fig. A. Hole (pos. A) put on existing hole next through hole pos. B mark points and drill it straight through.
   - Put away both fish plates (4 and 5) and next drill holes using bit ø17mm – only in boot floor.
4. On that prepared holes put distance sleeves L=68 mm (pos. 7).
   - Put fish plates (pos. 4 and 5), screw using bolts M10x100mm (pos. 10), loosely, as shown in the drawing.
5. Main bar of the towbar (pos. 1) put to rear part of car and screw through holes (pos. C) using bolts M12x35mm (pos. 11).
   -Through hole (pos. D) drill ø13mm and next screw using bolts M12x35mm (pos. 11).
6. Install bumper after unscrew original handles of plastic „gutter” (not used any more). In places of unscrewed handles screw handles from towbar accessories (pos. 6) use distance sleeves (pos. 8) as shown in the fig. 1.
   -In plastic „gutter” (in axis) cut out his fragment 180x40, and next in bottom part of bumper cut out fragment 80x20, as shown in fig. 2.
7. Fix tow-ball (pos. 2) and socket plate (pos. 3) by bolts M12x75mm (pos. 4) from accessories.
8. Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to make at authorized service station).
9. Complete the paint coating damaged during installation.

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

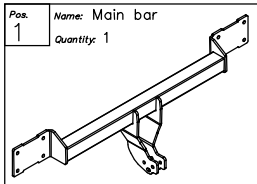
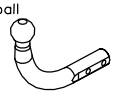
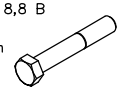
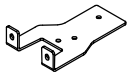
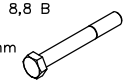
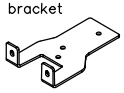
**NOTE**

After install the towbar 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 towbar must be always kept clear and conserve with a grease.

Towbar accessories:

| | | | |
|---|---|---|---|
| Pos. 1 Name: Main bar Quantity: 1  | Pos. 6 Name: Handle Quantity: 2  | Pos. 12 Name: Bolt 8,8 B Quantity: 4 Dim. : M10x40mm  | Pos. 18 Name: Plain washer Quantity: 4 Dim. : ø 10,5 mm  |
| | Pos. 7 Name: Distance sleeve I Quantity: 4 Dim. : ø17,2x2,35mm L=58mm  | Pos. 13 Name: Nut 8 B Quantity: 6 Dim. : M12  | Pos. 19 Name: Plain washer Quantity: 4 Dim. : ø 8,5 mm  |
| Pos. 2 Name: Tow ball Quantity: 1  | Pos. 8 Name: Distance sleeve II Quantity: 2 Dim. : ø25x5mm L=18mm  | Pos. 14 Name: Nut 8 B Quantity: 4 Dim. : M10  | Pos. 20 Name: Spring washer Quantity: 6 Dim. : ø 12,2 mm  |
| Pos. 3 Name: Socket plate Quantity: 1  | Pos. 9 Name: Bolt 8,8 B Quantity: 2 Dim. : M12x75mm  | Pos. 15 Name: Nut 8 B Quantity: 4 Dim. : M8  | Pos. 21 Name: Spring washer Quantity: 8 Dim. : ø 10,2 mm  |
| Pos. 4 Name: Left bracket Quantity: 1  | Pos. 10 Name: Bolt 8,8 B Quantity: 4 Dim. : M10x100mm  | Pos. 16 Name: Washer Quantity: 4 Dim. : ø58xø12x5mm  | Pos. 22 Name: Spring washer Quantity: 4 Dim. : ø 8,2 mm  |
| Pos. 5 Name: Right bracket Quantity: 1  | Pos. 11 Name: Bolt 8,8 B Quantity: 4 Dim. : M12x35mm  | Pos. 17 Name: Plain washer Quantity: 6 Dim. : ø 13 mm  | Pos. 23 Name: Ball cover Quantity: 1  |


**PPUH AUTO-HAK S.J.**

Produkcja Zaczepów Kulowych
Henryk & Zbigniew Nejman
76-200 SŁUPSK ul. Słoneczna 16K
tel/fax (059) 8-414-414; 8-414-413
Email: office@autohak.com.pl
www. autohak.com.pl


# Towing hitch (without electrical set)

Class: **A50-X** Cat. no. **T07**
Designed for:
Manufacturer: **KIA**
Model: **CLARUS**
Type: **4 door**
produced since 1996 till 01.1999

Technical data:
**D**-value: **8,4 kN**
maximum trailer weight: **1650 kg**
maximum vertical cup load: **75 kg**

**Approval number according to Directive 94/20/EC: e20*94/20*0613*00**

## *Foreword*

This towbar is designed according to rules of safety traffic regulations. The towing hitch is a safety component and can be install 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 area 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:*

$$\frac{\text{Max trailer weight [kg]} \times \text{Max vehicle weight [kg]}}{\text{Max trailer weight [kg]} + \text{Max vehicle weight [kg]}} \times \frac{9{,}81}{1000} = D\ [\text{kN}]$$