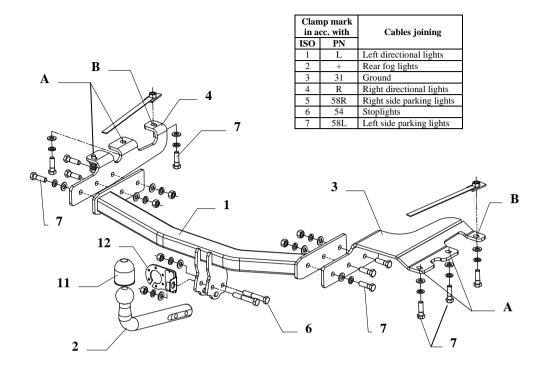
#### FITTING INSTRUCTION



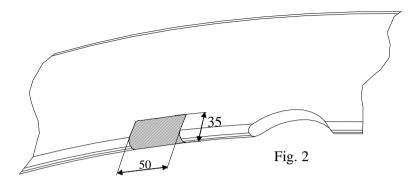
This towbar is designed to assembly in following cars:

**CHRYSLER VOYAGER** and **CHRYSLER GRAND VOYAGER** both produced since 05.2001 and is prepared to tow trailers max total weight **1600 kg** and max vertical load **80 kg**.

### The instruction of the assembly

- Disassemble original tow eye from left chassis member (not used any more)
- 2) Cut out fragment of the bumper in his bottom part, in axis see fig. 2).
- 3) To left chassis member fix element pos. 4 through holes A using bolts M12x40mm(pos. 7) loosely, next through technological hole put nut with handle in that way so nut tally with hole B and next fix using bolt M12x40mm (pos. 7).
- 4) To right chassis member fix element pos. 3 (fix as element pos. 4).

Between installed elements put main bar of the towbar pos. **1** and fix all using bolts M12x40mm (pos. **7**).



- 6) Fix tow-ball (pos. 2) and socket plate (pos. 12) using bolts M12x75mm (pos. 6) from accessories.
- 7) Tighten all bolts according to the torque shown in the table.
- 8) Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to make at authorized service station)
- 9) Complete paint layer 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

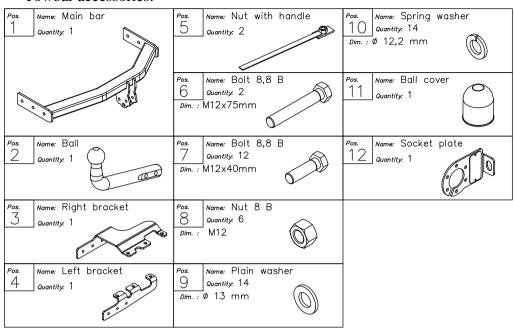
### **NOTE**

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 of exploitation check all bolts and nuts. The ball of towbar must be always kept clear and conserve with a grease.

#### Towbar accessories:





# PPUH AUTO-HAK Sp.J.

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

# **Towing hitch (without electrical set)**

Class: A50-X Cat. no. CH45

Designed for:

Manufacturer: CHRYSLER
Model: VOYAGER and

GRAND VOYAGER

produced since 05.2001

Technical data: **D**-value: **9.75 kN** 

maximum trailer weight: 1600 kg

maximum vertical cup load: 80 kg

Approval number acc. to regulations EKG/ONZ 55.01: E20-55R-01 1331

#### **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 whereat values for the towing hitch cannot be exceeded.

 $D ext{-}value\ formula:$ 

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