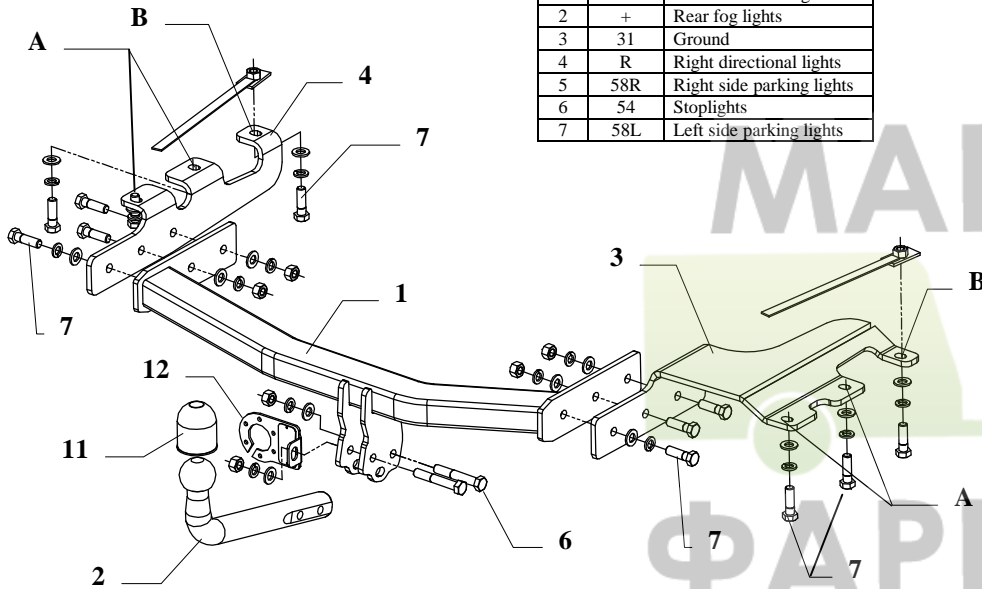


## FITTING INSTRUCTION

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



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

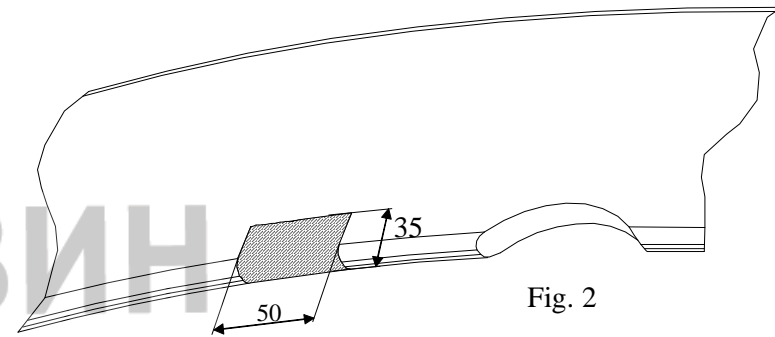


Fig. 2

- 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.

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**.

Torque settings for nuts and bolts (8,8):

<b>M 8</b>	25 Nm	<b>M 10</b>	55 Nm
<b>M 12</b>	85 Nm	<b>M 14</b>	135 Nm

### The instruction of the assembly

- 1) 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**).

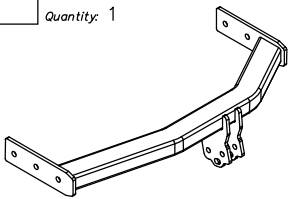


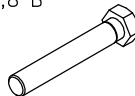

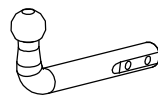

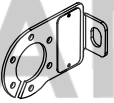
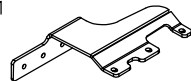

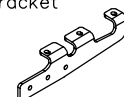

### NOTE

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. 5 Name: Nut with handle Quantity: 2 	Pos. 10 Name: Spring washer Quantity: 14 Dim.: Ø 12,2 mm 
	Pos. 6 Name: Bolt 8,8 B Quantity: 2 Dim.: M12x75mm 	Pos. 11 Name: Ball cover Quantity: 1 
Pos. 2 Name: Ball Quantity: 1 	Pos. 7 Name: Bolt 8,8 B Quantity: 12 Dim.: M12x40mm 	Pos. 12 Name: Socket plate Quantity: 1 
Pos. 3 Name: Right bracket Quantity: 1 	Pos. 8 Name: Nut 8 B Quantity: 6 Dim.: M12 	
Pos. 4 Name: Left bracket Quantity: 1 	Pos. 9 Name: Plain washer Quantity: 14 Dim.: Ø 13 mm 	



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[www.autohak.com.pl](http://www.autohak.com.pl)

## Towing hitch (without electrical set)

Class: A50-X Cat. no. CH 45

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: **E20-55-01 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-value formula:

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