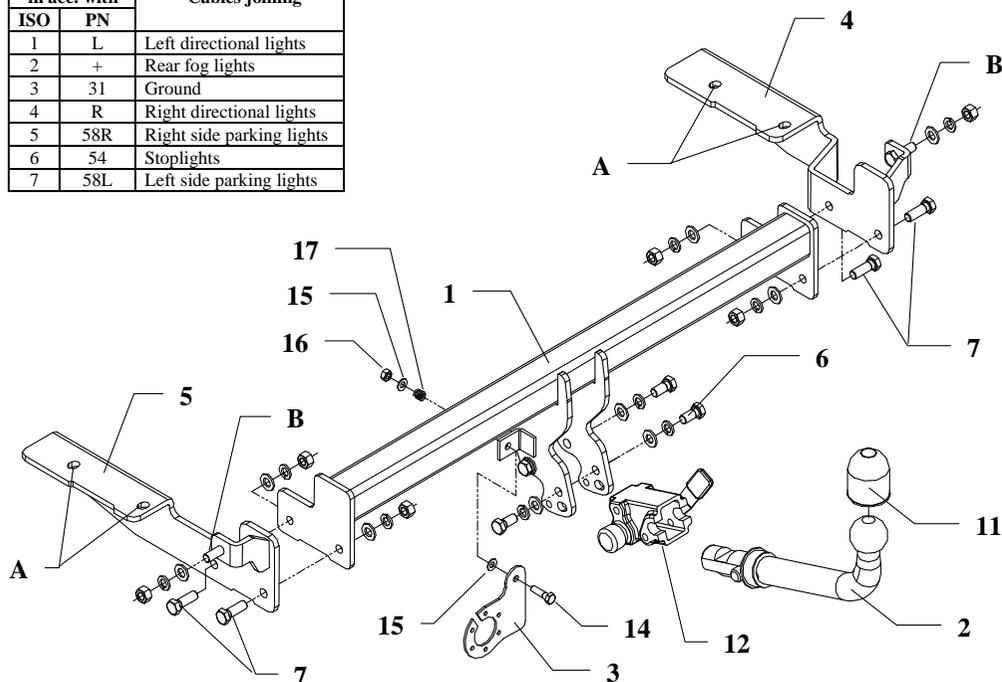


FITTING INSTRUCTION

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



This towbar is designed to assembly in following cars: **CHRYSLER GRAND VOYAGER 2WD and VOYAGER 2WD**, catalogue no. **CH30A**, produced since 03.1996 till 04.2001 and is prepared to tow trailers max total weight **1600 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 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.

The instruction of the assembly

1. From below the car untwist bolts fastening brackets of the bumper (two per each side)
- remove original tow eye (not used any more).
2. In place of untwisted bolts put on the left side left bracket (pos. 5) and on the right side put right bracket (pos. 4). Fix it to the car by untwisted bolts (M12x1,25x40mm) through holes A and in points B twist nuts M12, loosely.
3. Between mounted brackets (pos. 4 and 5) fix main bar of the towbar (pos. 1) using bolts M12x35mm (pos. 7).
4. Fix body of the automat (pos. 12) using bolts M12x25mm (pos. 6) from accessories. Place tow-ball (pos. 2) according to supplied instruction.
5. Fix the socket plate (pos. 3) as shown on the drawing.
6. Tighten all bolts according to the torque shown in the table.
7. Connect electric wires of 7-pole socket according to the instruction of the car. (Recommend to make at authorized service station)
8. Complete paint layer damaged during installation.

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

M6 - 11 Nm	M8 - 25 Nm	M10 - 50 Nm
M12 - 87 Nm	M14 - 138 Nm	M16 - 210 Nm

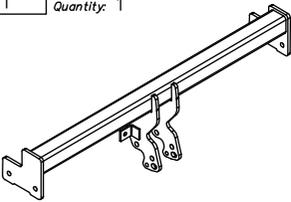
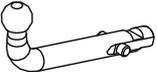
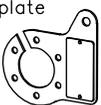
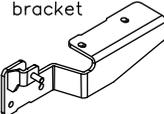
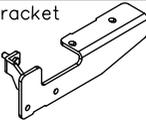
NOTE

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:

Pos. 1 Name: Main bar Quantity: 1	Pos. 6 Name: Bolt 8,8 B Quantity: 4 Dim.: M12x25mm	Pos. 12 Name: Body of the automat Quantity: 1
		
Pos. 2 Name: Tow-ball Quantity: 1	Pos. 7 Name: Bolt 8,8 B Quantity: 4 Dim.: M12x35mm	Pos. 13 Name: Body plug Quantity: 1
		
Pos. 3 Name: Socket plate Quantity: 1	Pos. 8 Name: Nut 8 B Quantity: 6 Dim.: M12	Pos. 14 Name: Bolt 8,8 B Quantity: 1 Dim.: M8x30mm
		
Pos. 4 Name: Right bracket Quantity: 1	Pos. 9 Name: Plain washer Quantity: 10 Dim.: Ø 13 mm	Pos. 15 Name: Plain washer Quantity: 2 Dim.: Ø 8,5 mm
		
Pos. 5 Name: Left bracket Quantity: 1	Pos. 10 Name: Spring washer Quantity: 10 Dim.: Ø 12,2 mm	Pos. 16 Name: Nut 8 B Quantity: 1 Dim.: M8
		
	Pos. 11 Name: Ball cover Quantity: 1	Pos. 17 Name: Spring Quantity: 1
		



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e-mail: office@autohak.com.pl
[www. autohak.com.pl](http://www.autohak.com.pl)

Towing hitch (without electrical set)

Class: **A50-X** Cat. no. **CH30A**

Designed for:

Manufacturer: **CHRYSLER**

Model: **VOYAGER 2WD**

GRAND VOYAGER 2WD

produced since 03.1996 till 04.2001

Technical data:

D-value: 9,72 kN

maximum trailer weight: **1500 kg**

maximum vertical cup load: **75 kg**

Approval number acc. to regulations EKG/ONZ 55.01: **E20 55R-01 1542**

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:

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