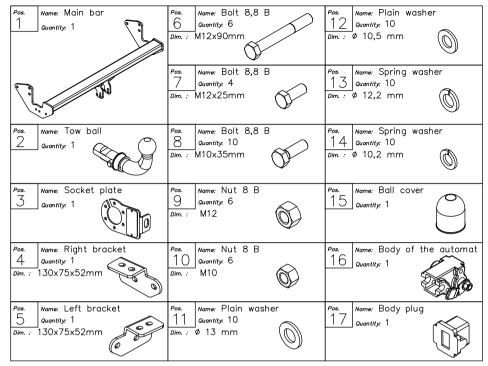
Towbar accessories:





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. D30A Designed for: Manufacturer: MERCEDES Model: VITO WSA 639 and VIANO produced since 09.2003

Technical data: D-value: 11,7 kN maximum trailer weight: 2000 kg maximum vertical cup load: 100 kg

Approval number according to Directive 94/20/EC: e20*94/20*0941*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.

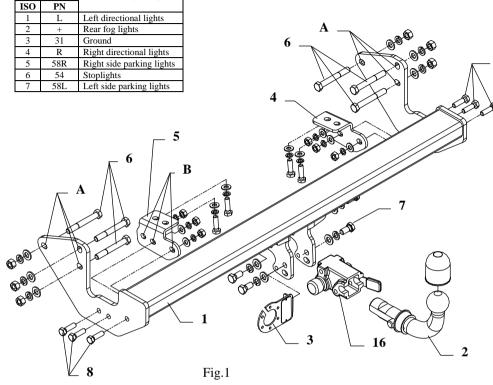
D-value formula:

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

FITTING INSTRUCTION Cables joining

Clamp mark

in acc. with



This towbar is designed to assembly in following cars: MERCEDES VITO WSA 639 and MERCEDES VIANO, produced since 09.2003, catalogue no. D30 and is prepared to tow trailers max total weight 2000 kg and max vertical load 100 kg.

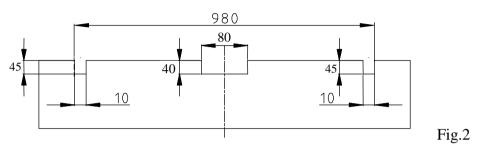
From manufacturer

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. Disassemble bumper and original tow handle (not used any more).
- 2. Put main bar of the towbar (pos. 1) in that way, so holes (pos. A) agree with holes in car frame and fix it using bolts M12x90mm (pos. 6).
- 3. Brackets (pos. 4 and 5) fix to cross bar and through holes (pos. B) fix with main bar (pos. 1) using bolts M10x35mm (pos. 8).



- 4. Fix bumper after cut his fragment see fig. 2 (inside, central part).
- 5. Fix body of the automat (pos. 16) and the socket plate (pos. 3) using bolts M12x25mm (pos. 7) from accessories. Place tow-ball (pos. 2) according to supplied instruction.
- 6. Tighten all bolts according to the torque shown in the table.
- 7. Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to make at authorized service station).
- 8. Complete the paint coating damaged during instalment.

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. The ball of towbar must be always kept clear and conserve with a grease.