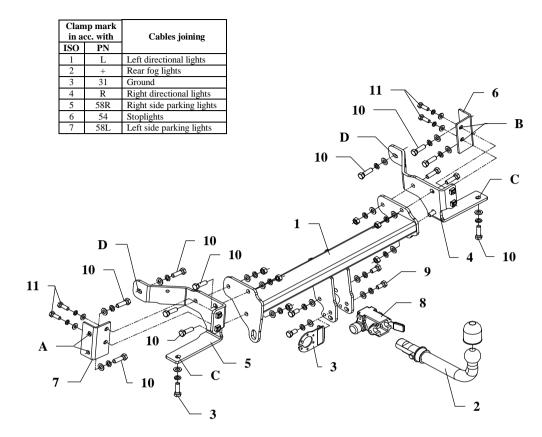
### FITTING INSTRUCTION



This towing hitch is designed to assembly in following cars: **OPEL ANTARA (C105)**, produced since 2006, catalogue number **E51A** and is prepared to tow trailers max total weight up to **2000 kg** and max vertical mass **80 kg**.

#### From manufacturer

Thank you for buying our product. Their reliability has been confirmed in many tests. Reliability of towing hitch depends also on correct assembly and right operation. For this reasons we kindly ask to read carefully this instruction and apply to hints.

The towing hitch should be installed in points described by a car producer.

## The instruction of the assembly

- 1. Disassemble muffler and last part of exhaust pipe.
- 2. Disassemble original tow eye (not used any more).
- 3. Underneath a car find original prepared holes in chassis members and fix loosely (through holes A) angle bars (pos. 6 and 7) using bolts M12x40mm (pos. 10).
- 4. To installed elements fix loosely through holes B side brackets (pos. 4 and 5) by bolts M10x30mm (pos. 11). Next side brackets fix to the chassis at points C and D by bolts M12x40mm (pos. 10) as shown on the drawing.
- 5. Between installed side brackets put main bar of the towbar (pos. 1) and fix using bolts M12x40mm (pos. 10) from equipment.
- 6. Fix body of the automat (pos. 8) and the socket plate (pos. 3) using bolts M12x25mm (pos. 9) from accessories. Place tow-ball (pos. 2) according to supplied instruction.
- 7. Tighten all bolts according to the torque shown in the table.
- 8. Reassemble muffler together with last part of exhaust pipe.
- 9. Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to do at authorized service station).
- 10. Complete paint layer damaged during installation.

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

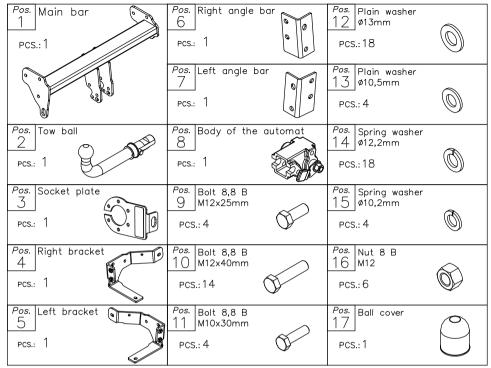
### NOTE

After installation of the towing hitch you should get adequate note in registration book (at authorised service station). The car should be equipped with:

- Indicators
- Tow mirrors

Check all bolts and nuts after **1000 km** of exploitation. The ball of the towing hitch must be always kept clear and conserve with a grease.

Part list:





# PPUH AUTO-HAK S.J.

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

## Towing hitch (without electrical set)

Class: A50-X Cat. no. E51A Designed for: Manufacturer: OPEL Model: ANTARA Type: (C105) produced since 2006

Technical data: D-value: 11,0 kN maximum trailer weight: 2000 kg maximum vertical cup mass: 80 kg

### Approval number according to Directive 94/20/EC: <u>e20\*94/20\*0524\*00</u>

### Foreword

This towing hitch 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 areas of the matting surfaces of the towing hitch. The vehicle manufacturer's specifications regarding trailer load and max. vertical cup mass are decisive for driving whereat values for the towing hitch cannot be exceeded.

D-value formula:

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