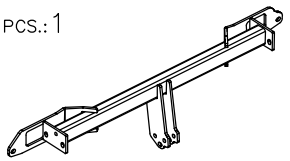
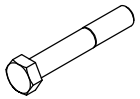
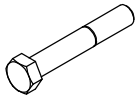
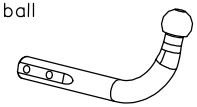
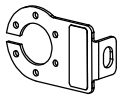
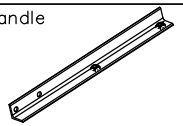
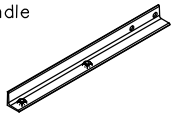
Towing hitch accessories:

| | | |
|---|---|---|
| Pos. 1 Main bar<br>PCS.: 1<br> | Pos. 6 Bolt 8,8 B M12x75mm<br>PCS.: 1<br> | Pos. 12 Spring washer ø12,2mm<br>PCS.: 6<br> |
| | Pos. 7 Bolt 8,8 B M12x70mm<br>PCS.: 1<br> | Pos. 13 Spring washer ø10,2mm<br>PCS.: 8<br> |
| Pos. 2 Tow ball<br>PCS.: 1<br> | Pos. 8 Bolt 8,8 B M12x35mm<br>PCS.: 4<br> | Pos. 14 Nut 8 B M12<br>PCS.: 6<br> |
| Pos. 3 Socket plate<br>PCS.: 1<br> | Pos. 9 Bolt 8,8 B M10x35mm<br>PCS.: 4<br> | Pos. 15 Nut 8 B M10<br>PCS.: 4<br> |
| Pos. 4 Right handle<br>PCS: 1<br> | Pos. 10 Washer ø30xø10,5x2,5mm<br>PCS.: 8<br> | Pos. 16 Ball cover<br>PCS.: 1<br> |
| Pos. 5 Left handle<br>PCS: 1<br> | Pos. 11 Plain washer ø13mm<br>PCS.: 10<br> | |


**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. **E56**
Designed for:
Manufacturer: **OPEL**
Model: **ASTRA**
Type: **SPORTS TOURER**
produced since 2011

Technical data:
**D**-value: **9,6 kN**
maximum trailer weight: **1800 kg**
maximum vertical cup mass: **75 kg**

**Approval number according to Directive 94/20/EC: e20*94/20*1419*00**

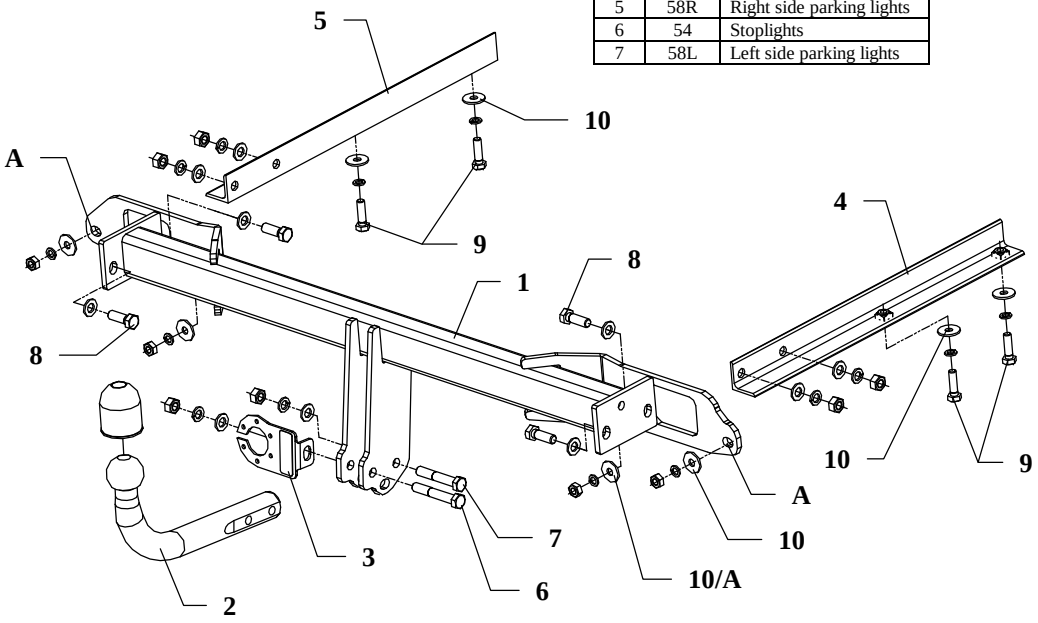
## *Foreword*

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 area of the matting surfaces of the towing hitch.
The vehicle manufacturer's specifications regarding trailer mass and max. vertical cup mass are decisive for driving whereat values for the towing hitch cannot be exceeded.
*D-value formula:*

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

## 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 towing hitch is designed to assembly in following cars: **OPEL ASTRA SPORTS TOURER,** produced since 2011, catalogue no. **E56** and is prepared to tow trailers max total weight **1800 kg** and max vertical mass **75 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 install in points described by a car producer.*

## The instruction of the assembly

1. Disassemble rear lights unit and bumper together with it's metal reinforcement. Reinforcement will be not used any more.
2. Apply main bar of the towbar (pos. 1) to rear part of car and fix loosely at points A.
3. Slip side handles (pos. 4 and 5) into chassis' members in this way, so holes of the brackets tally with holes in car's members. Fix loosely by bolts M10x35mm (pos. 9) as shown in the drawing.
4. Fix mounted handles (pos. 4 and 5) with main bar (pos. 1) by bolts M12x35mm (pos. 8) as shown in the drawing.
5. Fix tight all bolts according to the torque shown in the table.
6. Reassemble bumper after cut out it's fragment in bottom edge (in axis) dimensions: width 50mm and depth 100mm.
7. Fix tow-ball (pos. 2) with socket plate (pos. 3) using bolts M12x75mm (pos. 6) and M12x70mm (pos. 7) from accessories.
8. Reassemble rear lights unit.
9. Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to make at authorized service station).
10. Complete paint layer damaged during installation.

| Torque settings for nuts and bolts (8,8): | | |
|---|---|---|
| **M6 -** 11 Nm | **M 8 -** 25 Nm | **M 10 -** 50 Nm |
| **M 12 -** 87 Nm | **M 14 -** 138 Nm | **M16 -** 210 Nm |

### NOTE

After install the towing hitch 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 towing hitch must be always kept clear and conserve with a grease.