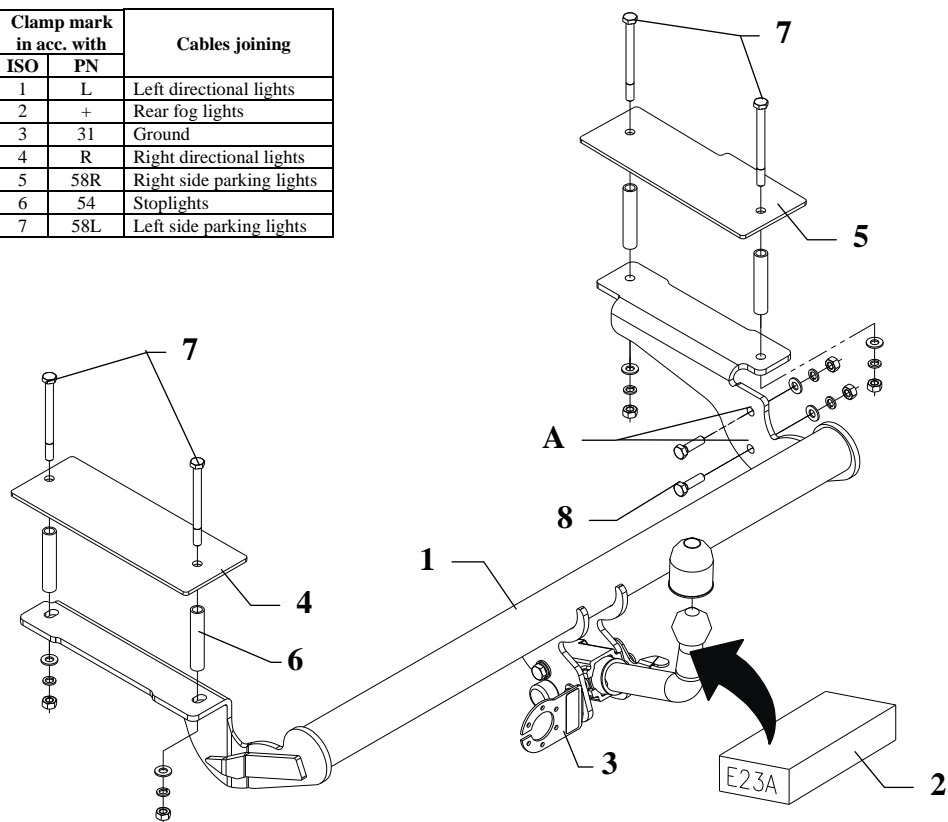


FITTING INSTRUCTION

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:
OPEL ASTRA G Caravan, ESTATE, except CNG, produced since 03.1998 till 2009, catalogue no. **E23A** and is prepared to tow trailers max total weight **1500 kg** and max vertical load **75 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 the bumper and the rear and side panel`s covers (inside the boots), then draw the fitted carpet back.
2. Disassemble the silencer and the thermal panel.
3. Find three holes marked on the left and right side, then drill two holes (the first and last one) using $\varnothing 17\text{mm}$.
4. Put the sleeves (pos. 6) and the fish-plates (pos. 4 and 5) through these holes, and then put the bolts M10 x120mm (pos. 7).
5. Position the main bar of the towbar (pos. 1) at the bottom of car, and then fit it.
6. Fit the towing eye through the towing eye`s fabric holes and the holes (pos. A). Use bolts M10x35mm (pos. 8).
7. Disassemble the foam from the bumper, then cut the bumper little and reassemble the bumper.
8. Fix body of the automat and place tow-ball according to supplied instruction. Note! Remember to place socket plate (pos. 3) as shown on the drawing 1.
9. Reassemble the silencer and the thermal cover.
10. Tighten all nuts and bolts according to the torque shown in the table.
11. Connect the electric wires according to the instructions of the car.
12. Complete the paint cover of towbar (during the mounting paint cover could be destroyed).

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

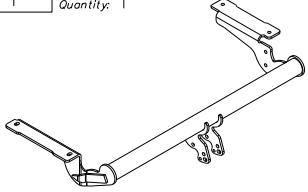




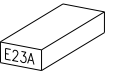
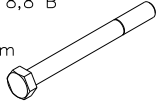

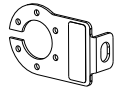

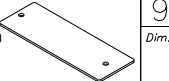

NOTE

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. 5 Name: Right fish-plate Quantity: 1 Dim.: 295x112x5mm 	Pos. 10 Name: Plain washer Quantity: 6 Dim.: Ø 10,5 mm 
	Pos. 6 Name: Distance sleeve Quantity: 4 Dim.: Ø17,2x2,35; L=88mm 	Pos. 11 Name: Spring washer Quantity: 6 Dim.: Ø 10,2 mm 
Pos. 2 Name: Tow ball Quantity: 1 	Pos. 7 Name: Bolt 8,8 B Quantity: 4 Dim.: M10x120mm 	Pos. 12 Name: Ball cover Quantity: 1 
Pos. 3 Name: Socket plate Quantity: 1 	Pos. 8 Name: Bolt 8,8 B Quantity: 2 Dim.: M10x35mm 	
Pos. 4 Name: Left fish-plate Quantity: 1 Dim.: 310x110x5mm 	Pos. 9 Name: Nut 8 B Quantity: 6 Dim.: M10 	



PPUH AUTO-HAK Sp. J.

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www.autohak.com.pl

Towing hitch (without electrical set)

Class: **A50-X** Cat. no. **E23A**

Designed for:

Manufacturer: **OPEL**

Model: **ASTRA G Caravan**

Type: **ESTATE, except CNG**

produced since 03.1998 till 2009

Technical data:

D-value: 8,6 kN

maximum trailer weight: **1500 kg**

maximum vertical cup load: **75 kg**

Approval number acc. to regulations EKG/ONZ 55.01: **E20-55R-01 4733**

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:

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