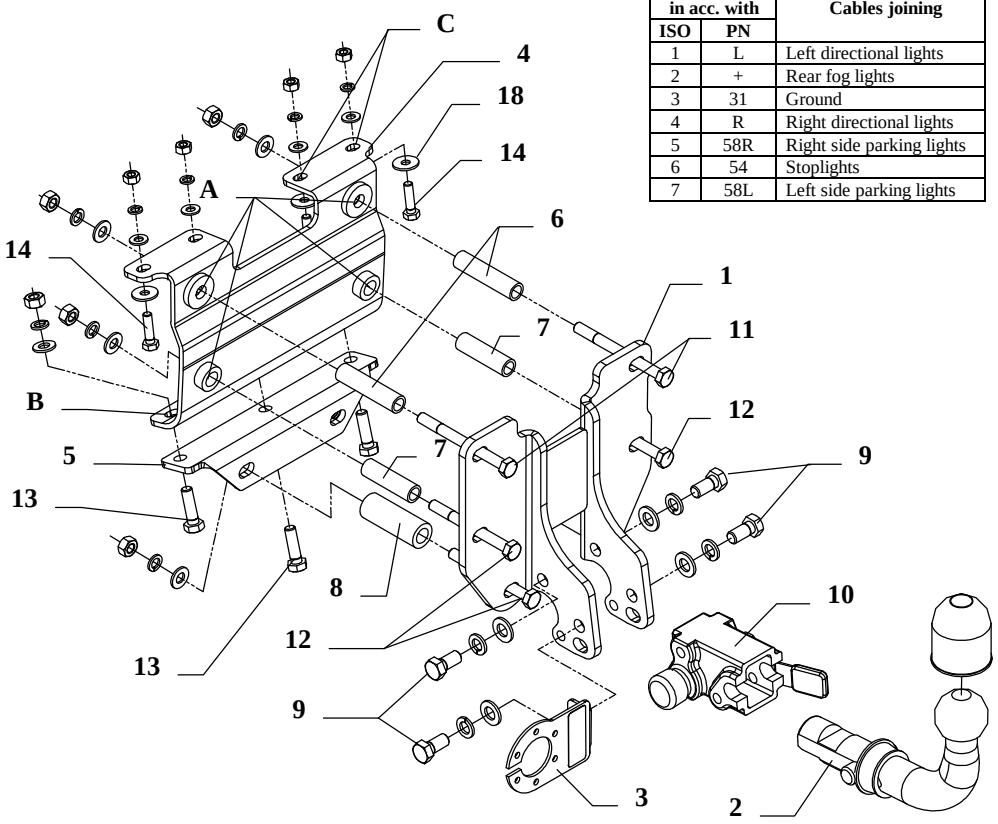
FITTING INSTRUCTION

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 "A" ESTATE,** produced since 1991 till 2002, catalogue no. **E36A** and is prepared to tow trailers max total weight **1500 kg** and max vertical load **50 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 take the spare wheel out of trunk.
2. Find original marked places in outside the rear panel, then drill four holes using drill ø17mm. If you want to make sure which holes are original, please position the bracket of the tow-ball (pos. 1).
3. Position the rear plate (pos. 4) to the trunk and fix it together with bracket of the tow-ball (pos. 1), through the original holes, towbar holes (pos. A) and sleeves using bolts M10x110mm (pos. 11) and M10x100mm (pos. 12).
4. Drill inside the trunk through the holes (pos. B) using drill ø12mm and then fix it with the bottom plate (pos. 5) positioned at the bottom of the car using bolts M10x35mm (pos. 13).
5. Slide the sleeves ø25x6, L=68mm (pos. 8) between elements (pos. 1 and 5) and fix it by bolts M10x100mm (pos. 12) - see the drawing.
6. Fix through the holes (pos. C) using bolts M8x30mm (pos. 14).
7. Cut the bumper (dimension is 70x35mm).
8. Reassemble the bumper.
9. Fix body of the automat (pos. 10) and the socket plate (pos. 3) using bolts M12x25mm (pos. 9) from accessories. Place tow-ball (pos. 2) according to supplied instruction.
10. Tighten all bolts according to the torque shown in the table.
11. Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to make at authorized service station).
12. 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

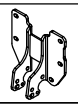
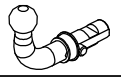
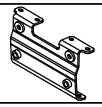
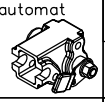
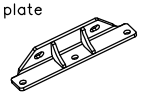
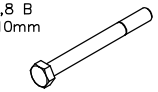
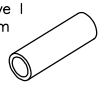
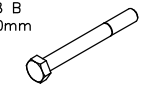
NOTE

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

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

Towbar accessories:

Pos. 1 Bracket of ball  pcs.: 1	Pos. 7 Distance sleeve II ø17,2xø12,5mm L=60mm  pcs: 2	Pos. 13 Bolt 8,8 B M10x35mm  pcs.: 3	Pos. 19 Spring washer ø12mm  pcs.: 4
Pos. 2 Tow–ball  pcs.: 1	Pos. 8 Distance sleeve III ø25xø15mm L=68mm  pcs: 2	Pos. 14 Bolt 8,8 B M8x30mm  pcs.: 4	Pos. 20 Spring washer ø10mm  pcs.: 9
Pos. 3 Socket plate  pcs.: 1	Pos. 9 Bolt 8,8 B M12x25mm  pcs.: 4	Pos. 15 Plain washer ø12mm  pcs.: 4	Pos. 21 Spring washer ø8mm  pcs.: 4
Pos. 4 Rear plate  pcs.: 1	Pos. 10 Body of the automat  pcs.: 1	Pos. 16 Plain washer ø10mm  pcs.: 9	Pos. 22 Nut 8 B M10  pcs.: 9
Pos. 5 Bottom plate  pcs.: 1	Pos. 11 Bolt 8,8 B M10x110mm  pcs.: 2	Pos. 17 Plain washer ø8mm  pcs.: 4	Pos. 23 Nut 8 B M8  pcs.: 4
Pos. 6 Distance sleeve I ø17,2xø12,5mm L=73mm  pcs: 2	Pos. 12 Bolt 8,8 B M10x100mm  pcs.: 4	Pos. 18 Plain washer 24xø8,4x2mm  pcs.: 4	Pos. 24 Ball cover  pcs.: 1
			Pos. 25 Body plug  pcs.: 1

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www. autohak.com.pl

Towing hitch (without electrical set)

Class: **A50-X** Cat. no. **E36A**
Designed for:
Manufacturer: **OPEL**
Model: **ASTRA "A"**
Type: **ESTATE**
produced since 1991 till 2002

Technical data:
D-value: **7,77 kN**
maximum trailer weight: **1500 kg**
maximum vertical cup load: **50 kg**

Approval number according to Directive 94/20/EC: e20*94/20*1065*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 whereat values for the towing hitch cannot be exceeded.
D-value formula:

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