FITTING INSTRUCTION

Clamp mark in acc. with		Cables joining	
ISO	PN		
1	L	Left directional lights	$\mathbf{A} \ lacksquare$
2	+	Rear fog lights	12
3	31	Ground	
4	R	Right directional lights	9
5	58R	Right side parking lights	
6	54	Stoplights	
7	58L	Left side parking lights	
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This towbar is designed to assembly in following car: **OPEL MERIVA** produced since 2003, catalogue number **E42A** and is prepared to tow trailers max total weight **1250 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.

L 13

The instruction of the assembly

- 1. Disassemble the bumper and metal fulfilment (not used any more).
- 2. Remove side nets and fitted carpet from the trunk.
- 3. To rear piece put bar of the towbar (pos. 1) towbar holes according to original holes, side brackets (pos. 4, 5, 6, 7) put to the chassis members and rear piece of the car. Fix all using bolts M10x40mm (pos. 13). See fig. 1. All elements fix loosely.
- 4. In the trunk are factory marked points (on the right side one-pos. A and on the left side two-pos. B), drill this points using bit ø17 mm, and next:
 - put distance sleeves L=85mm (pos. 10),
 - put suitable fish-plates 8 and 9,
 - insert bolts M10x120mm (pos. 12),
 - join with elements 4, 5, 6, 7.
- 5. Fix all bolts according to the torque shown in the table..
- 6. Cut out a fragment of the bumper (fig. 2) and mount it.

Fig. 2

270

80

200

CUT OUT

- 7. Fix body of the automat (pos. 14) and the socket plate (pos. 3) using bolts M12x25mm (pos. 11) from accessories. Place tow-ball (pos. 2) according to supplied instruction.
- 8. Connect electric wires according to the instruction of the car. (Recommend to make at authorized service station)
- 9. Supplement the paint coating damaged during assembly.

Torque settings for	Torque settings for nuts and bolts (8,8):				
M 8 - 25 Nm	M 10 - 55 Nm				
M 12 - 85 Nm	M 14 - 135 Nm				

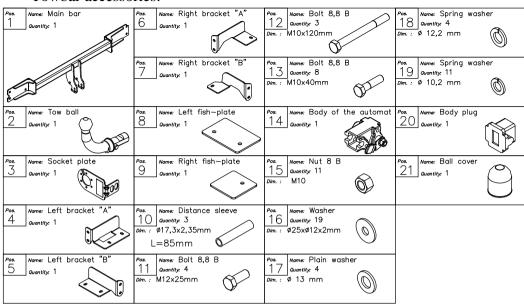
NOTE

After install the towbar you should get adequate registration in registration book (at authorised service station). The car should be equipment with:

- Indicators
- Tow mirrors

After 1000km check all bolts and nuts. The ball of towbar must be always keep clear and conserve with a grease.

Towbar accessories:





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: office@autohak.com.pl www. autohak.com.pl

Towing hitch (without electrical set)

Class: A50-X Cat. no. **E42A**

Designed for:

Manufacturer: **OPEL** Model: **MERIVA**

produced since 2003

Technical data: **D**-value: **7.6 kN**

maximum trailer weight: 1250 kg maximum vertical cup load: 50 kg

Approval number acc. to regulations EKG/ONZ 55.01: E20-55R-01 1057

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:

$$\frac{\text{Max trailer weight [kg]} \quad \text{x} \quad \text{Max vehicle weight [kg]}}{\text{Max trailer weight [kg]} + \quad \text{Max vehicle weight [kg]}} \text{X} \quad \frac{9.81}{1000} = \quad D \quad [kN]$$