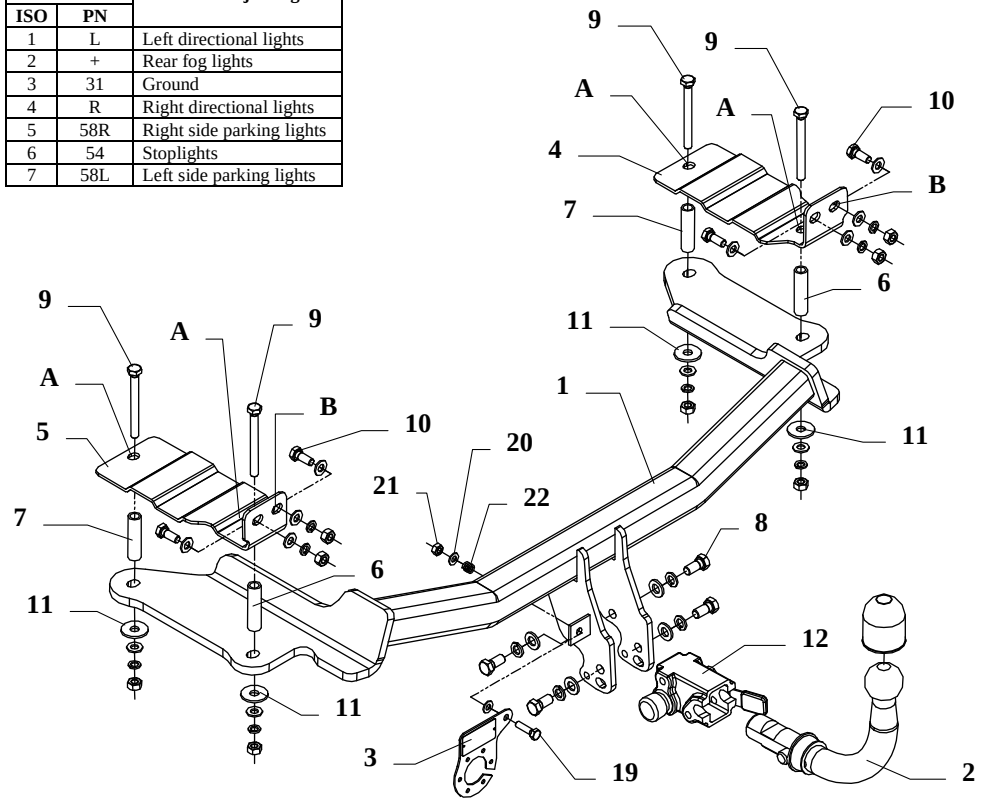
FITTING INSTRUCTION

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 car: **OPEL VECTRA "C", 4/5 doors,** produced since 06.2002 till 2008, catalogue no. **E40A** and is prepared to tow trailers max total weight **1950 kg** and max vertical load **78 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.
2. Drill the original two holes (pos. A) on the left and right side inside the trunk and drill two holes per each side in the rear panel (pos. B) - use bit ø17,5mm.
3. Position the distance sleeves (pos. 6 and 7) and fish-plates (pos. 4 and 5) - see the drawing.
4. Position the main bar of the towbar (pos. 1) at the bottom of the car and fix it through the holes (pos. A), distance sleeves and fish-plates (pos. 4 and 5) using bolts M10x100mm (pos. 9); then fix it through the holes (pos. B) and fishplates (pos. 4 and 5) using bolts M10x25mm (pos. 10).
5. Reassemble the bumper.
6. Fix body of the automat (pos. 12) using bolts M12x25mm (pos. 8) from accessories. Place tow-ball (pos. 2) according to supplied instruction.
7. Fix the socket plate (pos. 3) as shown on the drawing.
8. Tighten all nuts and bolts according to the torque shown in the table.
9. Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to make at authorized service station).
10. 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

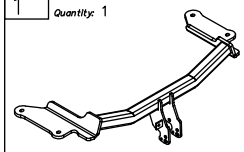
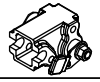
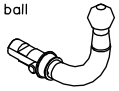
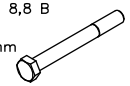
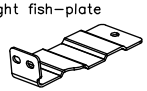
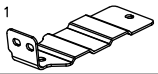
NOTE

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. 6 Name: Distance sleeve Quantity: 2 Dim. : ø17.2xø12mm L=66mm	Pos. 12 Name: Body of the automat Quantity: 1 	Pos. 18 Name: Ball cover Quantity: 1
	Pos. 7 Name: Distance sleeve Quantity: 2 Dim. : ø17.2xø12mm L=64mm	Pos. 13 Name: Nut 8 B Quantity: 8 Dim. : M10	Pos. 19 Name: Bolt 8,8 B Quantity: 1 Dim. : M8x30mm
Pos. 2 Name: Tow ball Quantity: 1 	Pos. 8 Name: Bolt 8,8 B Quantity: 4 Dim. : M12x25mm	Pos. 14 Name: Plain washer Quantity: 4 Dim. : ø 13 mm	Pos. 20 Name: Plain washer Quantity: 2 Dim. : ø 8,5 mm
Pos. 3 Name: Socket plate Quantity: 1	Pos. 9 Name: Bolt 8,8 B Quantity: 4 Dim. : M10x100mm 	Pos. 15 Name: Plain washer Quantity: 12 Dim. : ø 10,5 mm	Pos. 21 Name: Nut 8 B Quantity: 1 Dim. : M8
Pos. 4 Name: Right fish-plate Quantity: 1 	Pos. 10 Name: Bolt 8,8 B Quantity: 4 Dim. : M10x25mm	Pos. 16 Name: Spring washer Quantity: 4 Dim. : ø 12,2 mm	Pos. 22 Name: Spring Quantity: 1
Pos. 5 Name: Left fish-plate Quantity: 1 	Pos. 11 Name: Washer Quantity: 4 Dim. : ø35xø12x3mm	Pos. 17 Name: Spring washer Quantity: 8 Dim. : ø 10,2 mm	Pos. 23 Name: Body plug Quantity: 1

PPUH AUTO-HAK S.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. **E40A**
Designed for:
Manufacturer: **OPEL**
Model: **VECTRA "C"**
Type: **4/5 doors**
produced since 06.2002

Technical data:
D-value: **9,82 kN**
maximum trailer weight: **1950 kg**
maximum vertical cup load: **78 kg**

Approval number according to Directive 94/20/EC: e20*94/20*1084*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:

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