FITTING INSTRUCTION

Fig. 1

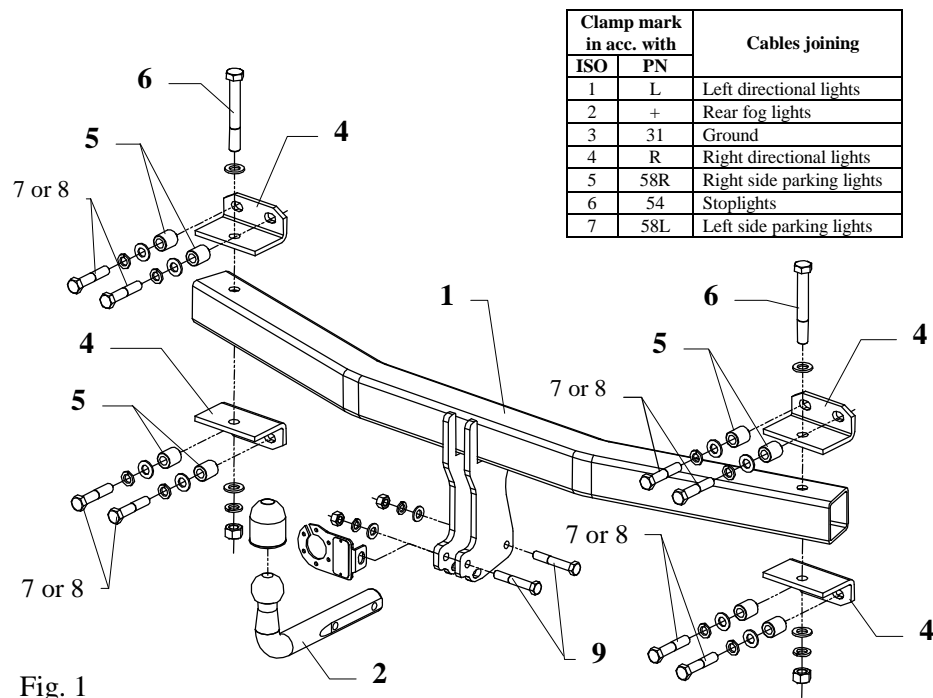| Clamp mark in acc. with		Cables joining
ISO	PN	
1	L	Left directional lights
2	+	Rear fog lights
3	31	Ground
4	R	Right directional lights
5	58R	Right side parking lights
6	54	Stoplights
7	58L	Left side parking lights

This towbar is designed to assembly in following cars: **VOLKSWAGEN TOUAREG** and **PORSCHE CAYENNE,** both produced since 2003, catalogue no. **K46** and is prepared to tow trailers max total weight **3500 kg** and max vertical load **140 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 exploit. 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 tail lights and the bumper (see instruction of the car).
2. Twist off 8 bolts from bumper reinforcement and disassemble it (not used any more).
3. Mount towbar unit: fix loosely elements pos. 4 with main bar of the towbar (pos. 1) using bolts M16x120mm (pos. 6).
4. Put towbar unit in disassembled reinforcement place, in this way so towbar's holes tally with original holes. Fix using bolts M14x1,5x70mm pos. 7 or M12x1,5x70mm pos. 8 (depending on size of holes prepared by car's manufacturer). Remember about distance sleeves ø25xø15, L=28mm (pos. 5).
5. Assemble bumper after cut out his fragment (see fig. 2).
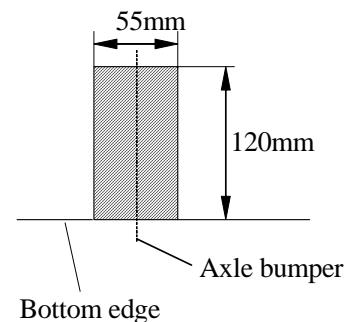

Fig. 2

6. Fix tow-ball (pos. 2) and socket plate (pos. 3) using bolts M12x75mm (pos. 9) from accessories.
7. Tighten all bolts according to the torque shown in the table.
8. Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to make at authorized service station)
9. Complete paint layer damaged during installation.

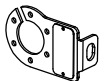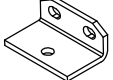| Torque settings for nuts and bolts (8,8):			
M 8	25 Nm	**M 10**	55 Nm
M 12	85 Nm	**M 14**	135Nm
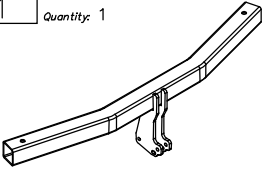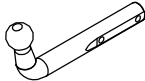
NOTE

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 check all bolts and nuts. The ball of towbar must be always kept clear and conserve with a grease.

Towbar accessories:

Pos.	Name	Quantity	Dim.
1	Main bar	1	
2	Ball	1	
3	Socket plate	1	
4	Fastening plate	4	
5	Distance sleeve	8	Ø25xØ15x28mm
6	Bolt 10,9 B	2	M16x120mm
7	Bolt 10,9 B	8	M14x1,5x70mm
8	Bolt 10,9 B	8	M12x1,5x70mm
9	Bolt 8,8 B	2	M12x75mm
10	Nut 8 B	2	M16
11	Nut 8 B	2	M12
12	Plain washer	4	Ø 17 mm
13	Plain washer	8	Ø 15 mm
14	Plain washer	10	Ø 13 mm
15	Spring washer	2	Ø 16,3 mm
16	Spring washer	8	Ø 14,2 mm
17	Spring washer	10	Ø 12,2 mm
18	Ball cover	1	

Towing hitch (without electrical set)

Class: **A50-X**   Cat. no. **K46**

Designed for:
VOLKSWAGEN TOUAREG
and
PORSCHE CAYENNE
both produced since 2003

Technical data:
D-value: **16,3 kN**
maximum trailer weight: **3500 kg**
maximum vertical cup load: **140 kg**

Approval number acc. to regulations EKG/ONZ 55.01: E20-55R-01 1194

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:

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