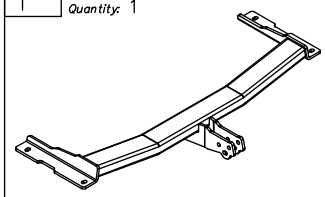
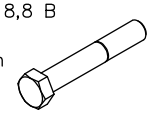
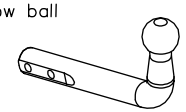
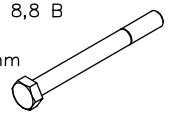
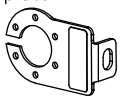
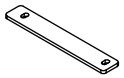
Towbar accessories:

Pos. 1 — Name: Main bar — Quantity: 1 	Pos. 5 — Name: Distance sleeve — Quantity: 4 — Dim. : ø17,2xø2,35mm L=60mm 	Pos. 10 — Name: Plain washer — Quantity: 2 — Dim. : ø 13 mm 
	Pos. 6 — Name: Bolt 8,8 B — Quantity: 2 — Dim. : M12x75mm 	Pos. 11 — Name: Plain washer — Quantity: 4 — Dim. : ø 10,5 mm 
Pos. 2 — Name: Tow ball — Quantity: 1 	Pos. 7 — Name: Bolt 8,8 B — Quantity: 4 — Dim. : M10x100mm 	Pos. 12 — Name: Spring washer — Quantity: 2 — Dim. : ø 12,2 mm 
Pos. 3 — Name: Socket plate — Quantity: 1 	Pos. 8 — Name: Nut 8 B — Quantity: 2 — Dim. : M12 	Pos. 13 — Name: Spring washer — Quantity: 4 — Dim. : ø 10,2 mm 
Pos. 4 — Name: Fish–plate — Quantity: 2 — Dim. : 300x32x15mm 	Pos. 9 — Name: Nut 8 B — Quantity: 4 — Dim. : M10 	Pos. 14 — Name: Ball cover — Quantity: 1 

PPUH AUTO-HAK S.J.

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E-mail: office@autohak.com.pl
www. autohak.com.pl

Towing hitch (without electrical set)

Class: **A50-X** Cat. no. **X04**
Designed for:
Manufacturer: **DAEWOO**
Model: **ESPERO**
Type: **4 door**
produced since 1995 till 1997

Technical data:
D-value: **6,82 kN**
maximum trailer weight: **1200 kg**
maximum vertical cup load: **70 kg**

Approval number according to Directive 94/20/EC: e20*94/20*0541*00

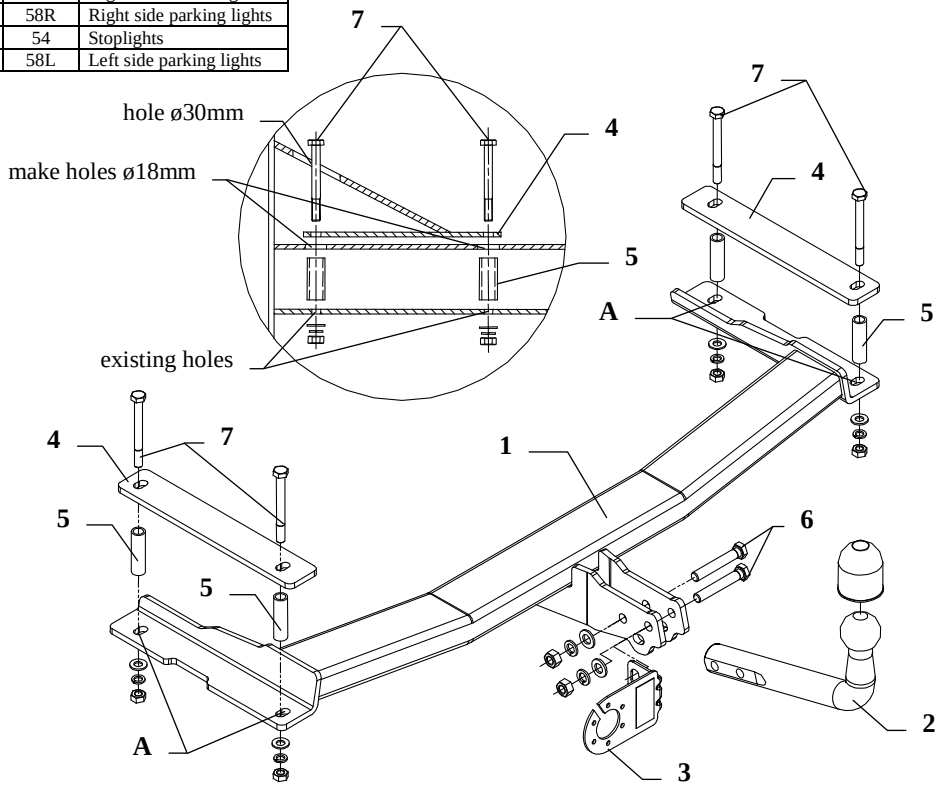
Foreword

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, and values for the towing hitch cannot be exceeded.
D-value formula:

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

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: **DAEWOO ESPERO, 4 door,** produced since 1995 till 1997, catalogue no. **X04** i and is prepared to tow trailers max total weight **1200 kg** and max vertical load **70 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. Inside the trunk, on existing ribbings (on the left and right side) apply the attached template and mark point. Then make holes ø30mm in ribbing (one hole per side).
2. In the head of the chassis members (in factory-made points) drill holes ø18mm (from the side of the trunk).
3. From inside of the trunk (into made holes) put distance sleeves (pos. 5), then apply on it, under the ribbing, fish-plates (pos. 4) from the towbar accessories.
4. Apply the main bar of the towbar – pos. 1 (from the bottom of the car), then through holes of the towbar (pos. A), distance sleeves and fish-plates fix using bolts M10x100mm (pos. 7).
5. To so prepared towbar fix tow-ball (pos. 2) with socket plate (pos. 3) using bolts M12x75mm (pos. 6) from towbar accessories.
6. Tighten all bolts according to the torque shown in the table.
7. Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to make at authorized service station).
8. 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 -** 135 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 check all bolts and nuts. The ball of towbar must be always kept clear and conserve with a grease.