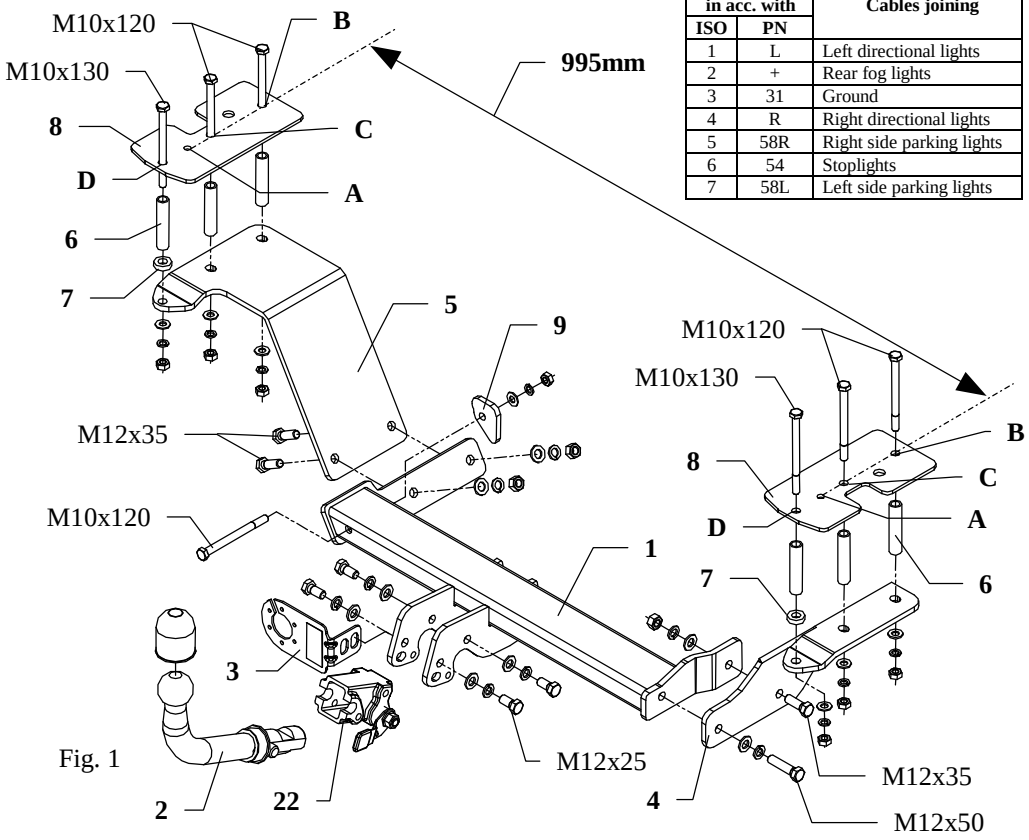
FITTING INSTRUCTION



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

Fig. 1

This towing hitch is designed to assembly in following cars: **DAEWOO TACUMA**, produced since 2000, catalogue no. **X14A** and is prepared to tow trailers max total weight **1500 kg** and max vertical load **75 kg**.

From manufacturer

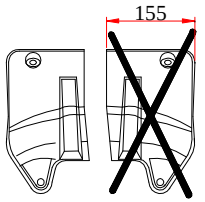
Thank you for buying our product. Their reliability has been confirmed in many tests. Reliability of towing hitch depends also on correct assembly and right operation. For this reasons we kindly ask to read carefully this instruction and apply to hints.

The towing hitch should be install in points described by a car producer.

The instruction of the assembly

1. From a trunk remove carpet, next twist off rear and side plastic panels. Twist off luggage holders from a floor.
2. Twist off a muffler and a thermal shield.
3. Fish-plates (pos. 8) put in this way so holes A agree with holes after luggage holders disassembly. Arrange fish-plates parallel with chassis lines and according dimension from figure 1. Next through holes B and C drill holes using bit ø11mm and through holes D drill holes using bit ø18mm.
4. Through holes D put distance sleeves ø17 (pos. 6), put fish-plates pos.8 at the end put bolts M10x120mm (pos.14) and M10x130mm (pos. 13). See figure 1.

Fig. 2



5. Underneath the car:
   - on the left side – on protruding bolts put left bracket (pos. 5). Put distance sleeves pos. 6 before! Twist on..
     NOTE! Use thick washer ø25x6mm (pos. 7) on hole D (see figure 1).
   - on the right side – on protruding bolts put right bracket (pos. 4). Put distance sleeves pos. 6 before! Twist on loosely.
6. Between installed side brackets (pos. 4 and 5) put main bar of the towing hitch (pos. 1) and fix using bolts M10x120mm, M12x35mm and M12x50mm. See figure.
7. Reassemble thermal shield after cut out fragment according to figure 2.
8. Fix tight all bolts according to the torque shown in the table.
9. Fix body of the automat (pos. 22) and the socket plate (pos. 3) using bolts M12x25mm (pos. 10) from accessories. Place tow-ball (pos. 2) according to supplied instruction.
10. Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to make at authorized service station).
11. 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

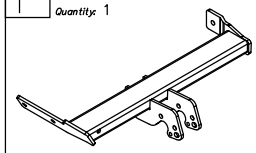
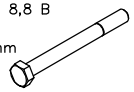
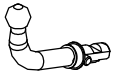
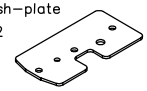
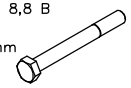
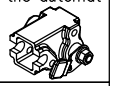
NOTE

After install the towing hitch 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 screws. The ball of towing hitch must be always kept clear and conserve with a grease.

Towing hitch accessories:

Pos. 1 Name: Main bar Quantity: 1 	Pos. 6 Name: Distance sleeve I Quantity: 6 Dim. : ø17,2x2,35mm L=80mm 	Pos. 12 Name: Bolt 8,8 B Quantity: 3 Dim. : M12x35mm 	Pos. 18 Name: Plain washer Quantity: 7 Dim. : ø 10,5 mm 
	Pos. 7 Name: Distance sleeve II Quantity: 2 Dim. : ø25x6mm L=7mm 	Pos. 13 Name: Bolt 8,8 B Quantity: 2 Dim. : M10x130mm 	Pos. 19 Name: Spring washer Quantity: 8 Dim. : ø 12,2 mm 
Pos. 2 Name: Tow ball Quantity: 1 	Pos. 8 Name: Fish–plate Quantity: 2 	Pos. 14 Name: Bolt 8,8 B Quantity: 5 Dim. : M10x120mm 	Pos. 20 Name: Spring washer Quantity: 7 Dim. : ø 10,2 mm 
Pos. 3 Name: Socket plate Quantity: 1 	Pos. 9 Name: Specjal washer Quantity: 1 	Pos. 15 Name: Nut 8 B Quantity: 3 Dim. : M12 	Pos. 21 Name: Ball cover Quantity: 1 
Pos. 4 Name: Right bracket Quantity: 1 	Pos. 10 Name: Bolt 8,8 B Quantity: 4 Dim. : M12x25mm 	Pos. 16 Name: Nut 8 B Quantity: 7 Dim. : M10 	Pos. 22 Name: Body of the automat Quantity: 1 
Pos. 5 Name: Left bracket Quantity: 1 	Pos. 11 Name: Bolt 8,8 B Quantity: 1 Dim. : M12x50mm 	Pos. 17 Name: Plain washer Quantity: 8 Dim. : ø 13 mm 	Pos. 23 Name: Body plug Quantity: 1 

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. **X14A**
Designed for:
Manufacturer: **DAEWOO**
Model: **TACUMA**
Type: **5 doors**
produced since 2000

Technical data:
D-value: **8,2 kN**
maximum trailer weight: **1500 kg**
maximum vertical cup load: **75 kg**

Approval number according to Directive 94/20/EC: e20*94/20*0388*00

Foreword

This towing hitch 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:

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