Part list:

Pos. Main bar	Pos. Left fish-plate	Pos. Bolt 8,8 B 14 M12x75mm	Pos. 22 ø44xø15x3mm
PCS.:1	PCS.: 1	PCS.: 1	PCS.: 4
	Pos. Fish-plate with nuts	Pos. Bolt 8,8 B 15 M12x70mm	Pos. Plain washer 23 ø15mm
0 0 0 00 00 00 00 00 00 00 00 00 00 00	PCS: 2	PCS.: 1	PCS.: 10
Pos. Tow ball	Pos. Square washer	Pos. Bolt 8,8 B 16 M12x1,25x40mm	Pos. Plain washer 24 ø13mm
PCS.: 1	PCS.: 2	PCS.: 6	PCS.: 14
Pos. Socket plate	Pos. Washer with nut	Pos. Bolt 8,8 B 17 M12x35mm	Pos. Plain washer 25 ø10,5mm
PCS.: 1	PCS.: 2	PCS.: 6	PCS.: 6
Pos. Right bracket	Pos. Bolt 8,8 B 11 M14x1,5x70mm	Pos. Bolt 8,8 B 18 M10x35mm	Pos. Spring washer 26 ø14,2mm
PCS.: 1	PCS.: 4	PCS.: 6	PCS.: 14
Pos. Left bracket	Pos. Bolt 8,8 B 12 M14x1,5x50mm	Pos. Nut 8 B 19 M14	Pos. Spring washer 27 ø12,2mm
PCS.: 1	PCS.: 6	PCS.: 2	PCS.: 14
Pos. Right fish-plate	Pos. Bolt 8,8 B 13 M14x35mm	Pos. Nut 8 B 20 M12	Pos. Spring washer 28 ø10,2mm
PCS.: 1	PCS.: 4	PCS.: 2	PCS.: 6
		Pos. Nut 8 B 21 M10	Pos. 29 Ball cover
		PCS.: 6	PCS.: 1



# PPUH AUTO-HAK S.J.

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# Towing hitch (without electrical set)

Class: A50-X Cat. no. O35 Designed for: Manufacturer: TOYOTA Model: LANDCRUISER Type: 5 doors, J100 produced since 01.1998 till 08.2002 and since 09.2002

Technical data: D-value: 16,6 kN maximum trailer weight: 3500 kg maximum vertical cup load: 120 kg

### Approval number according to Directive 94/20/EC: e20\*94/20\*0266\*00

#### Foreword

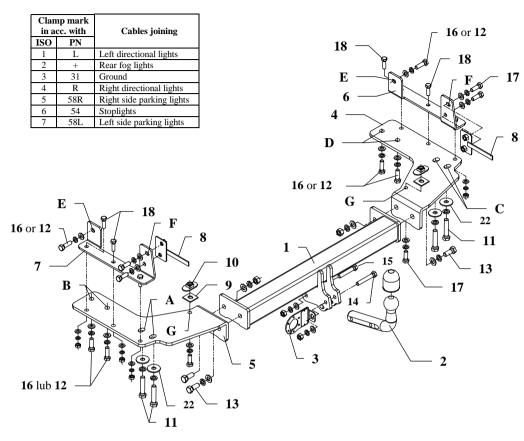
This towing hitch is designed according to rules of safety traffic regulations. The towing hitch is a safety component and can be install only by qualified personnel. Any alteration or conversion of the towing hitch is prohibited and would lead to cancellation of design certification. Remove insulating 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:

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

### FITTING INSTRUCTION



This towing hitch is designed to assembly in following cars: **TOYOTA LANDCRUISER, 5 doors, J100,** produced since 01.1998 till 08.2002 and since 09.2002, catalogue no. **O35** and is prepared to tow trailers max total weight **3500 kg** and max vertical load **120 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. Disassemble original towing handles. Disassemble metal part of the bumper (reinforcement), it will be not used any more.
- To the left chassis member put left bracket (pos. 5) and fix it together with disassembled towing eye through holes A using bolts M14x1,5x70mm (pos. 11) and through holes B using bolts M12x1,25x40mm (pos. 16)-loosely.
  NOTE !!! In some models it could be bolts M14x1,5x50mm (pos. 12).
- To the right chassis members put right bracket (pos. 4) and fix it together with disassembled towing eye through holes C using bolts M14x1,5x70mm (pos. 11) and through holes D using bolts M12x1,25x40mm (pos. 16)-loosely.
  NOTE !!! In some models it could be bolts M14x1,5x50mm (pos. 12).
- 4. To the prepared side brackets put left fish-plate pos. 7 (to the left member) and right fish-plate pos. 6 (to the right member) as shown in the drawing and fix using bolts M10x35mm (pos. 18). Next through holes E fix all using bolts M12x1,25x40mm (pos. 16) or in some models M14x1,5x50mm (pos. 12).
- 5. To fix side brackets through holes F use jibs with nuts pos. 8 and bolts M12x35mm (pos. 17).
- 6. Through holes G (in brackets 4 and 5) drill holes in only one side of the car frame using bit ø12,5mm. Next fix using bolts M12x35mm (pos. 17) and square washers pos. 9 (put between frame and side brackets) and washers with nuts pos. 10.
- 7. Between installed side brackets put main bar of the towbar (pos. 1) and fix it using bolts M14x35mm (pos. 13)
- 8. Fix tow-ball (pos. 2) with socket plate (pos. 3) using bolts M12x75mm (pos. 14) and M12x70mm (pos. 15) from accessories.
- 9. Tighten all bolts according to the torque shown in the table.
- 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):			
<b>M6 -</b> 11 Nm	<b>M8 -</b> 25 Nm	<b>M10 -</b> 50 Nm	
<b>M12 -</b> 87 Nm	<b>M14 -</b> 138 Nm	<b>M16 -</b> 210 Nm	

## NOTE

After installation of 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 of exploitation check all bolts and nuts. The ball of towing hitch must be always kept clear and conserve with a grease.