FITTING INSTRUCTION

	in ac	p mark c. with	Cables joining	
-	ISO	PN		
	1	L	Left directional lights	<i>_</i> B
-	2	+	Rear fog lights	∠
-	3	31	Ground	6
	4	R	Right directional lights	
	5	58R	Right side parking lights	18 — 9
	6	54	Stoplights	
L	7	58L	Left side parking lights	
B -				

This towing hitch is designed to assembly in following cars: **RENAULT MASTER loading platform** produced since 1998 till 03.2010, **OPEL MOVANO loading platform** produced since 1998 and **NISSAN INTERSTAR** produced since 2002, catalogue number **G28** and is prepared to tow trailers max total weight **2500 kg** and max vertical mass **100 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 installed in points described by a car producer.

The instruction of the assembly

- 1. Disassemble bolts fastening bumper On the left and right side of car (from chassis members)
- 2. At points after disassembled bolts put side brackets (pos. 4 and 5) and fix it through holes A using bolts M10x40mm (pos. 10).
- 3. To assembled side brackets fix loosely angle bars (poz. 6) śrubami M10x40mm (poz. 6) jak pokazano na rysunku.
- 4. Through holes B in angle bars and existing holes in car construction fix all using bolts M12x30mm (pos. 9) from towbar accessories.
- 5. Between installed side brackets put main bar of the towbar (pos. 1) and fix using bolts M12x40mm (pos. 8).
- 6. Fix tow-ball (pos. 2) using bolts M16x50mm (pos. 7) from accessories.
- 7. Fix socket plate (pos. 3) as shown on the drawing using bolt M10x30mm (pos. 11).
- 8. Tighten all 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 paint layer damaged during installation.

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 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

Check all bolts and nuts after 1000 km of exploitation. The ball of the towing hitch must be always kept clear and conserve with a grease.

Part list:

Pos. Main bar	Pos. Left bracket 5	Pos. Bolt 8,8 B M10x30mm	Pos. Plain washer #17 \$10mm
PCS.:1	PCS.: 1	PCS.: 1	PCS.: 7
	Pos. Angle bar	Pos. Nut 8 B 12 M16	Pos. Washer 830xø10.5x2.5mm
	Pcs.: 2	PCS.: 2	PCS.: 2
Pos. Tow ball	Pos. Bolt 8,8 B 7 M16x50mm	Pos. Nut 8 B 13 M12	Pos. Spring washer 19 ø16.3mm
PCS.: 1	PCS.: 2	PCS.: 2	PCS.: 2
Pos. Socket plate	Pos. Bolt 8,8 B 8 M12x40mm	Pos. Nut 8 B M10	Pos. Spring washer 20 ø12mm
PCS.: 1	PCS.: 4	PCS.: 3	PCS.: 8
Pos. Right bracket	Pos. Bolt 8,8 B 9 M12x30mm	Pos. Plain washer 15 ø17mm	Pos. Spring washer 21 ø10mm
PCS.: 1	PCS.: 4	PCS.: 2	PCS.: 7
	Pos. Bolt 8,8 B 10 M10x40mm	Pos. Plain washer 912mm	Pos. Ball cover
	PCS.: 6	PCS.: 8	PCS.: 1



PPUH AUTO-HAK Sp.J.

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Towing hitch (without electrical set)

Class: A50-X Cat. no. G28

Designed for:

RENAULT MASTER loading platformproduced since 1998 till 03.2010,

OPEL MOVANO loading platform produced since 1998 NISSAN INTERSTAR produced since 2002 Technical data: **D**-value: **14,3 kN**

maximum trailer weight: **2500 kg** maximum vertical cup mass: **100 kg**

Approval number acc. to regulations EKG/ONZ 55.01: <u>E20-55R-01 1075</u>

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 areas of the matting surfaces of the towing hitch. The vehicle manufacturer's specifications regarding trailer load and max. vertical cup mass are decisive for driving whereat values for the towing hitch cannot be

D-value formula:

exceeded.

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