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
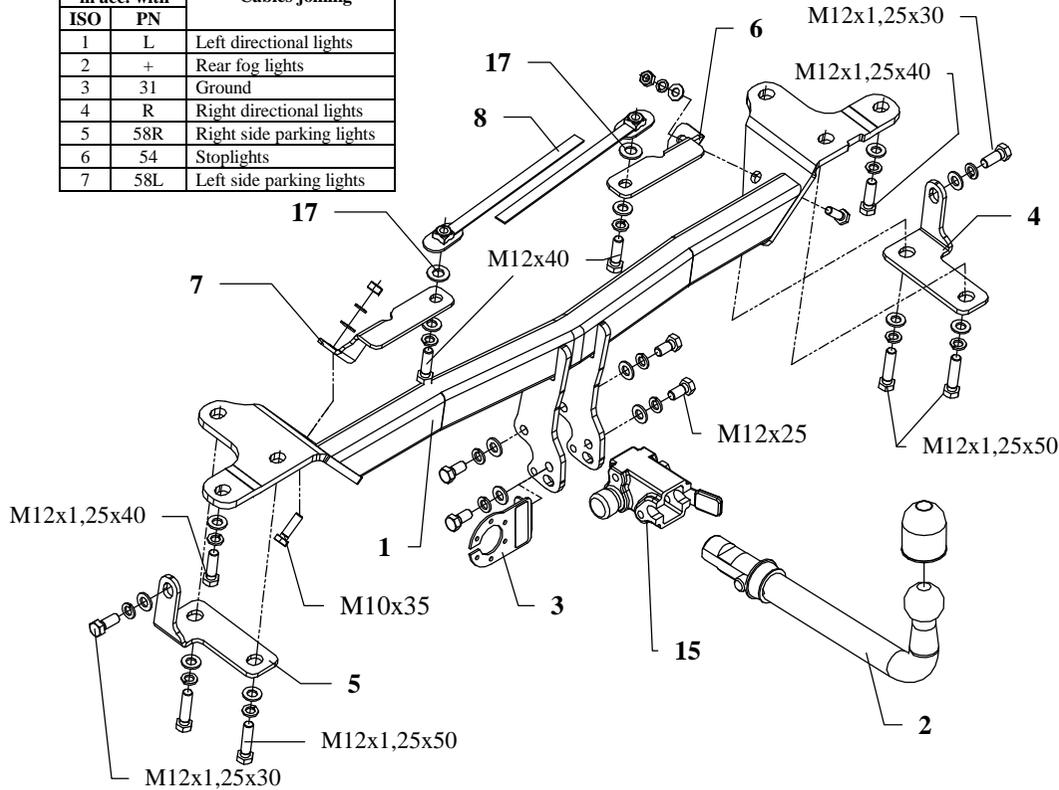
This towing hitch is designed to assembly in following cars: **SUZUKI GRAND VITARA, 3 doors,** produced since 2005, catalogue number **W24A** and is prepared to tow trailers max total weight **1600 kg** and max vertical load **85 kg**.

The instruction of the assembly

1. Disassemble original towing eye (right side underneath).
2. Disassemble last muffler and thermal shield. Cut out fragments of thermal shield according to figure 2 then reassemble it..
3. In central part of the bumper (in axis) cut out fragment 80mm width and 25mm depth..
4. According to figure 4 drill hole ø28mm underneath the car.
5. Through made hole insert nuts on the jibs (pos. 8) in this way so nuts agree with original holes. Fix loosely couplers (pos. 6 and 7) using bolts M10x35mm (pos. 14). Remember to put washer M14 (pos. 17) between couplers and frame of the car.

6. Hole X blind using rubber plug (pos. 24).
7. Fix main bar of the towing hitch (pos. 1) to the frame of the car using bolts M12x1,25x30mm, M12x1,25x40mm and using bolts M12x1,25x50mm through handles (pos. 4 and 5). On the right side on the handle pos. 4 fix original towing eye.
8. Fix body of the automat (pos. 15) and the socket plate (pos. 3) using bolts M12x25mm (pos. 9) from accessories. Place tow-ball (pos. 2) according to supplied instruction.
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.
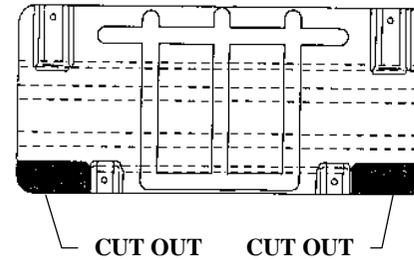
Fig. 2 Thermal shield cut outs
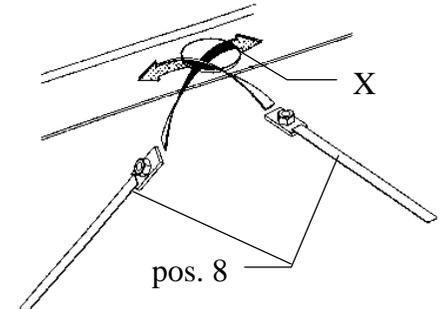


Fig. 3 Jibs placement method
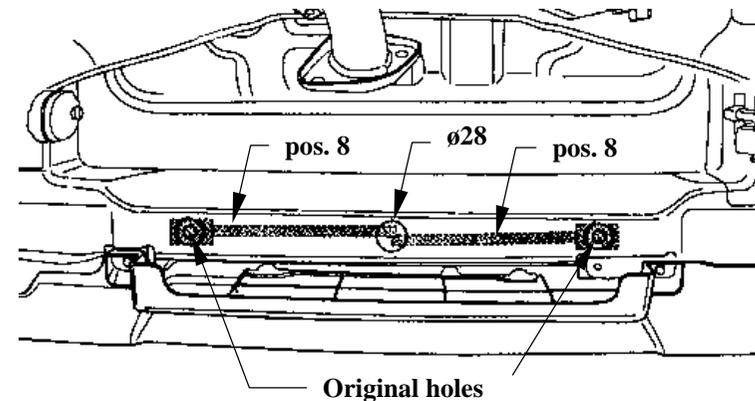
Fig. 4 The jibs plecement

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 bolts and nuts. The ball of towing hitch must be always kept clear and conserve with a grease.

Towing hitch equipment:

Pos.	Name	Quantity	Dim.
1	Main bar	1	
2	Tow ball	1	
3	Socket plate	1	
4	Right handle	1	
5	Left handle	1	
6	Right coupler	1	
7	Left coupler	1	
8	Nut on the jib	2	
9	Bolt 8,8 B	4	M12x25mm
10	Bolt 8,8 B	4	M12x1,25x50mm
11	Bolt 8,8 B	2	M12x1,25x40mm
12	Bolt 8,8 B	2	M12x1,25x30mm
13	Bolt 8,8 B	2	M12x40mm
14	Bolt 8,8 B	2	M10x35mm
15	Body of the automat	1	
16	Nut 8 B	2	M10
17	Plain washer	2	Ø 15 mm
18	Plain washer	16	Ø 13 mm
19	Plain washer	2	Ø 10,5 mm
20	Spring washer	14	Ø 12,2 mm
21	Spring washer	2	Ø 10,2 mm
22	Ball cover	1	
23	Body plug	1	
24	Rubber plug	1	

AUTO HAK
® SŁUPSK

Towing hitch (without electrical set)

Class: **A50-X**   Cat. no. **W24A**

Designed for:
Manufacturer: **SUZUKI**
Model: **GRAND VITARA**
Type: **3 doors**
produced since 2005

Technical data:
D-value: **8,85 kN**
maximum trailer weight: **1600 kg**
maximum vertical cup load: **85 kg**

Approval number according to Directive 94/20/EC: e20*94/20*0016*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:

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