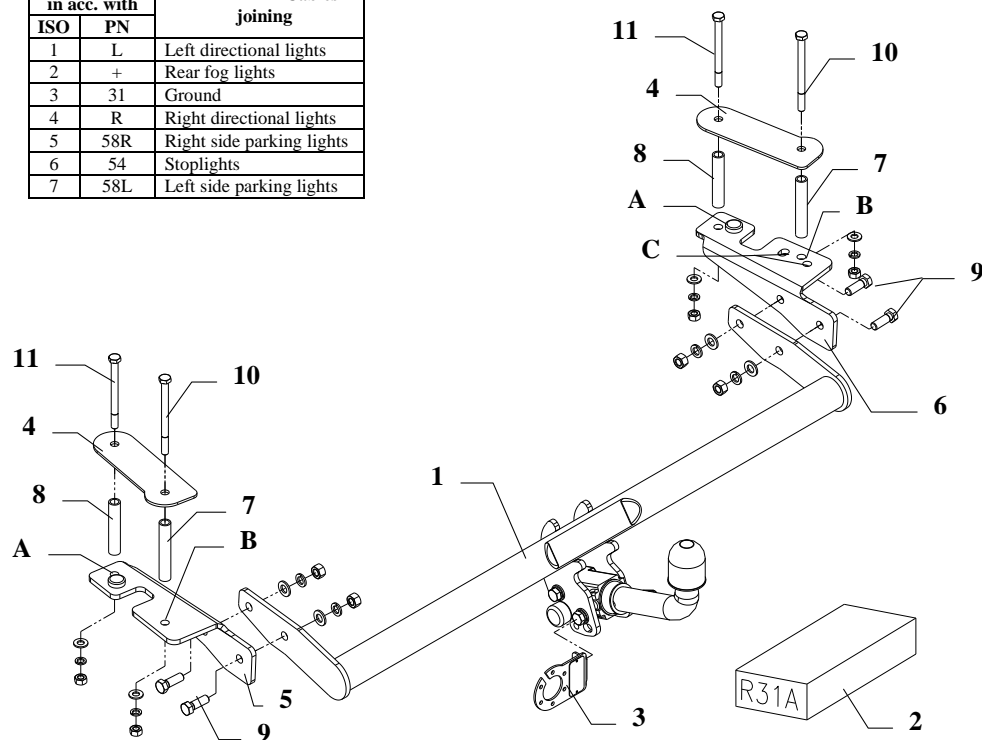


## FITTING INSTRUCTION

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:  
**FIAT PALIO WEEKEND estate (178)** produced since 11.2003, catalogue number **R31A** and is prepared to tow trailers max total weight **1000 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 installed in points described by a car producer.*

## The instruction of the assembly

1. Take a spare wheel out of a boot; disassemble an boot's upholstery (from a floor and a walls)
2. Disassemble a fabric towing eye (it is not used any more)
3. Put element (pos. 6) to the right chassis member (do it in such a way that a pin is compatible with a original holes and holes pos. C are compatible with a threaded holes. Fix it with bolts from the original towing eye.
4. Drill  $\varnothing 10,5$  mm through holes (pos. A and B) of element pos. 6 to the inside part of the boot. Then enlarge this hole by a drill  $\varnothing 17$ mm (do it only inside the boot). Next, slide a spacers  $L = 90$  and  $100$  mm, as it shown a sketch, and fix it with bolts according to figure 2.
5. Position element (pos. 5) to the left chassis member (do it in such a way that a pin is compatible with a fabric holes), then position the element in such a way that its edge raze to an chassis member's edge (compare to the right side). Drill  $\varnothing 10,5$  mm through the holes (pos. A and B) to the boot . Other activities like in point 5.
6. Slide main bar (pos. 1) between brackets (pos. 5 and 6 and fix it with M12x35mm bolts (pos. 9).
7. Fix body of the automat and place tow-ball according to supplied instruction. Note! Remember to place socket plate (pos. 3) as shown on the drawing 1.
8. Tighten all nuts and bolts according to the torque shown in the table.
9. Connect the electric wires according to the instructions of the car.
10. Complete the paint cover of towbar (during the mounting paint cover could be destroyed)

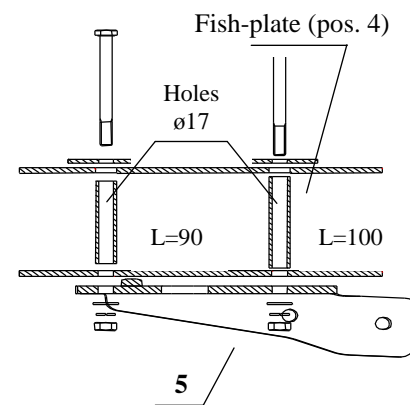


Fig. 2.  
The way of side bracket assembly.

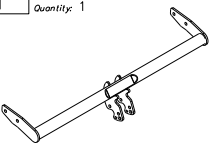
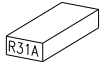


### NOTE

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.

## Part list:

Pos. 1	Name: Main bar Quantity: 1	Pos. 5	Name: Left bracket Quantity: 1	Pos. 11	Name: Bolt 8,8 B Quantity: 2 Dim.: M10x130mm	Pos. 16	Name: Plain washer Quantity: 4 Dim.: Ø 10,5 mm
		Pos. 6	Name: Right bracket Quantity: 1	Pos. 12	Name: Bolt 8,8 B Quantity: 2 Dim.: M10x120mm	Pos. 17	Name: Spring washer Quantity: 4 Dim.: Ø 12,2 mm
Pos. 2	Name: Tow-ball Quantity: 1	Pos. 7	Name: Distance sleeve Quantity: 2 Dim.: Ø17,2xØ2,35mm L=100mm	Pos. 13	Name: Nut 8 B Quantity: 4 Dim.: M12	Pos. 18	Name: Spring washer Quantity: 4 Dim.: Ø 10,2 mm
		Pos. 8	Name: Distance sleeve Quantity: 2 Dim.: Ø17,2xØ2,35mm L=90mm	Pos. 14	Name: Nut 8 B Quantity: 4 Dim.: M10		
Pos. 3	Name: Socket plate Quantity: 1	Pos. 9	Name: Bolt 8,8 B Quantity: 4 Dim.: M12x35mm	Pos. 15	Name: Plain washer Quantity: 4 Dim.: Ø 13 mm		
							
Pos. 4	Name: Fish-plate Quantity: 2						
							

Torque settings for nuts and bolts (8,8):  
**M 8 - 25 Nm**                      **M 10 - 55 Nm**  
**M 12 - 85 Nm**                    **M 14 - 135 Nm**



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## Towing hitch (without electrical set)

Class: **A50-X** Cat. no. **R31A**

Designed for:

Manufacturer: **FIAT**

Model: **PALIO WEEKEND**

Type: **ESTATE (178)**

produced since 11.2003

Technical data:

**D-value: 6,21 kN**

maximum trailer weight: **1000 kg**

maximum vertical cup load: **70 kg**

**Approval number according to Directive 94/20/EC: e20\*94/20\*0884\*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 mass are decisive for driving whereat values for the towing hitch cannot be exceeded.

*D-value formula:*

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