FITTING INSTRUCTION

			1
Clamp mark			
in acc. with		Cables joining	Ĭ
ISO	PN		8 ¬ / 5
1	L	Left directional lights	
2	+	Rear fog lights	15
3	31	Ground	
4	R	Right directional lights	4
5	58R	Right side parking lights	7
6	54	Stoplights	13 — ♥
7	58L	Left side parking lights	
15 C	3	B	11 11 4 6 A 10 21 21 21
	Fig	gure 1	3

This towing hitch is designed to assembly in following cars: ALFA ROMEO 159 (4 doors) produced since 09.2006 and 159 SPORTWAGON (ESTATE), produced since 03.2006, catalogue no. AL38 and is prepared to tow trailers max total weight 1800 kg and max vertical mass 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

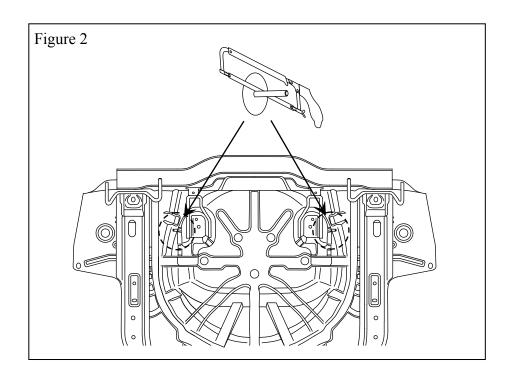
- 1. Disassemble rear lights and bumper together with it's fulfillment.
- 2. Disassemble last parts of exhaust pipes and heat shields.
- 3. Cut off protruding bolts according to figure 2.
- 4. Disassemble metal support of the bumper. Apply central fish-plate (pos. 4) as shown on the figure 3. Mark points on foot and head part of the beam. Drill at marked points holes Ø13mm.
- 5. Reassemble metal beam of the bumper on the car. Drill made holes into trunk and next enlarge them only from trunk side to diameter ø18mm.
- 6. Put main bar of the towbar (pos. 1) to chassis in this way so holes A agree with holes drilled in metal beam. Inside trunk put distance sleeves (pos. 6), Apply central fishplate (pos. 4) and fix loosely by bolts M10x100mm (pos. 11) as shown on figure 1.
- 7. Mark holes B and C, next drill it to Ø11mm, see figure 4.
- 8. Holes B enlarge from trunk side to diameter ca. 18mm.
- 9. From trunk side put distance sleeves (pos. 7) and fish-plates (pos. 5) and bolts M10x90mm (pos. 12). Fix loosely.
- 10. Through existing holes in chassis members put nuts on the jibs (pos. 8) and fix in points C using bolts M10x35mm (pos. 13) as shown on figure 1.
- 11. Saw out fragment of fulfillment as shown on the figure 5.
- 12. Reassemble elements disassembled at point 2. If necessary reshape heat shields to ensure they cannot touch the towbar and exhaust.
- 13. Reassemble bumper after cut out it's fragment width 50mm and depth 95mm (in lower edge, in axis).
- 14. Fix tow-ball (pos. 2) with socket plate (pos. 3) using bolts M12x75mm (pos. 9) and M12x70mm (pos 10) from accessories.
- 15. Tighten all bolts according to the torque shown in the table.
- 16. Connect electric wires of 7-poles socket according to the instruction of the car. (Recommend to make at authorized service station).
- 17. Complete paint layer damaged during installation.

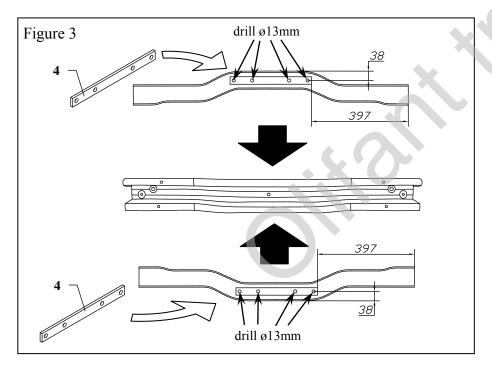
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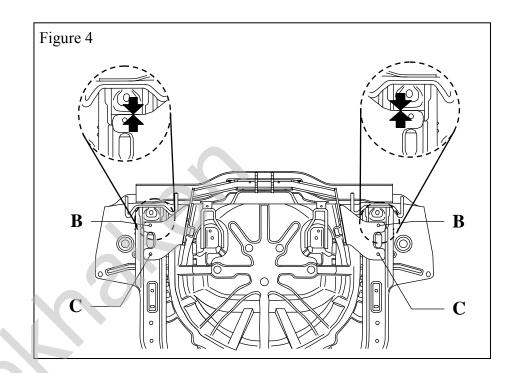
After install the towing hitch you should get adequate note in registration book (at authorised service station). The car should be equipped with:

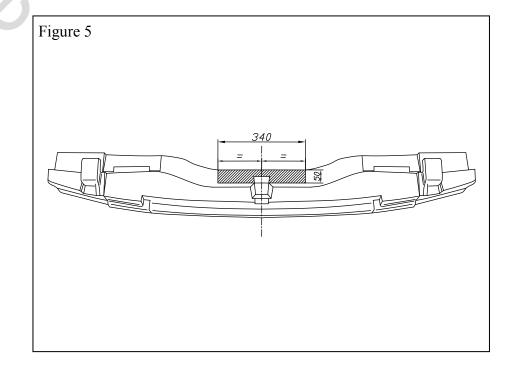
- Indicators
- Tow mirrors

After **1000km** of exploitation check all bolts and nuts. The ball of towing hitch must be always kept clear and conserve with a grease.









Towing hitch accessories:

Towning inten decessories.						
Pos. Main bar Pcs.:1	Pos. Side fish-plate 5 Pcs.: 2	Pos. 1 Bolt 8,8 B M12x70mm	Pos. Plain washer			
2	Pos. Distance sleeve I #17,2x2,35mm L=64mm	Pos. Bolt 8,8 B M10x100mm	Pos. Spring washer 912,2mm			
Pos. Tow ball Pcs.: 1	Pas. Distance sleeve II 7 Ø17,2x2,35mm L=58mm PCS: 2	Pos. 12 Bolt with conical head M10x90mm	Pos. Spring washer 18 ø10,2mm PCS.: 8			
Pos. 3 Socket plate	Pos. Nut on the jib	Pos. Bolt 8,8 B M10x35mm	Pos. 19 M12 Pcs.: 2			
Pos. Central fish-plate 4 Pcs.: 1	Pos. Bolt 8,8 B M12x75mm	Pas. Plain washer 14 Ø13mm Pcs.: 2	Pos. Nut 8 B M10 PCS.: 2			
		Pos. Plain washer 15 Ø30xØ10,5x2,5mm PCS.: 2	Pos. 21 Ball cover			



PPUH AUTO-HAK Sp.J.

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Towing hitch (without electrical set)

Class: A50-X Cat. no. AL38

Designed for:

Manufacturer: ALFA ROMEO

Model: **159 (4 doors)** produced since 09.2005

Model: 159 Sportwagon (estate)

produced since 03.2006

Technical data: **D**-value: **9.9 kN**

maximum trailer weight: **1800 kg** maximum vertical cup mass: **75 kg**

Approval number according to Directive 94/20/FC+ e20*94/20*1331*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 mass and max. vertical cup mass are decisive for driving whereat values for the towing hitch cannot be exceeded.

D-value formula:

 $\frac{\text{Max trailer weight [kg]} \quad \text{x} \quad \text{Max vehicle weight [kg]}}{\text{Max trailer weight [kg]} + \quad \text{Max vehicle weight [kg]}} \text{x} \quad \frac{9.81}{1000} = \quad D \text{ [kN]}$