

# TOW BAR S-115 FOR SEAT CORDOBA (4D) ( 01/2003 - r.) FITTING AND OPERATION MANUAL.

Cat. No. S-115

### DESTINATION

Tow bar **S-115** for a **Seat Cordoba (4D)** is designed for towing a trailer. This ball hook has a current certification of approval authorizing the product with **e4** certification sign.

### FITTING CONDITIONS

Tow bar **S-115** can be used and operated in a car with proper technical conditions of body elements. Those parts cannot be mechanically damaged. The ball hook has to be installed and operated in a car according to this instruction. All bolts and nuts in ball hook have to be screwed down with proper torque (Mo). Torque values are given below:

M8 - 25 (Nm)	M12 - 85 (Nm)
M10 - 50 (Nm)	M16 - 200 (Nm)

### OPERATION CONDITIONS

The tow bar **S-115** has a rating plate describing correct and safe loads of the hook:

Typ: <b>S-115</b> <b>A50-X</b> <b>00-3268</b> <b>D = 7,0 kN</b> <b>S = 50 kg</b> <b>R = 1200 kg</b>	The tow bar for <b>Seat Cordoba (4D)</b> Tow bar class ( compressing device ) Tow bar certification of approval number Teoretical related force working on a ball hook Max permissible vertical load of the hook ball Max permissible load of towing trailer
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**D - force is calculated using the following formula:**

$$D = g \times \frac{T \times R}{T + R} \text{ kN}$$

**T**-technically permissible maximum mass in tonnes of the towing vehicle (also towing tractors) including, if necessary, the vertical load of a centrale axle trailer.  
**R**-technically permissible maximum mass in tonnes of the full trailer with drawgal free to move in the vertical plane or of the semi-trailer.  
**g**-acceleration due to gravity (assumed as 9,81 m/s<sup>2</sup>)

During operating individual elements of ball hook should be kept in a proper technical condition and protected from corrosion. The trailer must be linked with an elastic joint with proper durability ( cord , chain ) while towing .It is necessary to check periodically bolt joints during operating the ball hook. If screws are eased , it is necessary to screw them down .

### FITTING

The tow bar **S-115** for **Seat Cordoba (4D)** is made up of the following elements :

- |                                |            |                       |            |
|--------------------------------|------------|-----------------------|------------|
| 1. Towbar mainframe            | - 1 piece  | 6. Bolt M12x65        | - 2 pieces |
| 2. Tow ball                    | - 1 piece  | 7. Spring washer 10,2 | - 4 pieces |
| 3. Electrical plate            | - 1 piece  | 8. Spring washer 12,2 | - 2 pieces |
| 4. Special washer 40/ 10,5x2,5 | - 4 pieces | 9. Flat washer 13,0   | - 2 pieces |
| 5. Bolt M10x35                 | - 4 pieces | 10. Nut M12           | - 2 pieces |

In order to mount the ball hook **S-115** you have to obey the instruction below:

1. Rear bumper cutting is required.
2. Unpack the towbar packing and separate components. Dismantle the metal strenghtening of the car. Check all parts are present.

3. Insert (1) to the chassis side members , the holes in side support must be the same like in the holes in chassis side members. Next attach using (5), (7), (4).
4. Cut out the part of rear bumper (figure 1), next attach the rear bumper to the car.
5. Attach (2) to (1) using (6), (8), (9), (10) add (3) on left side of (2) at the same time.
6. Check if all fixing bolts and nuts are correctly tightened.

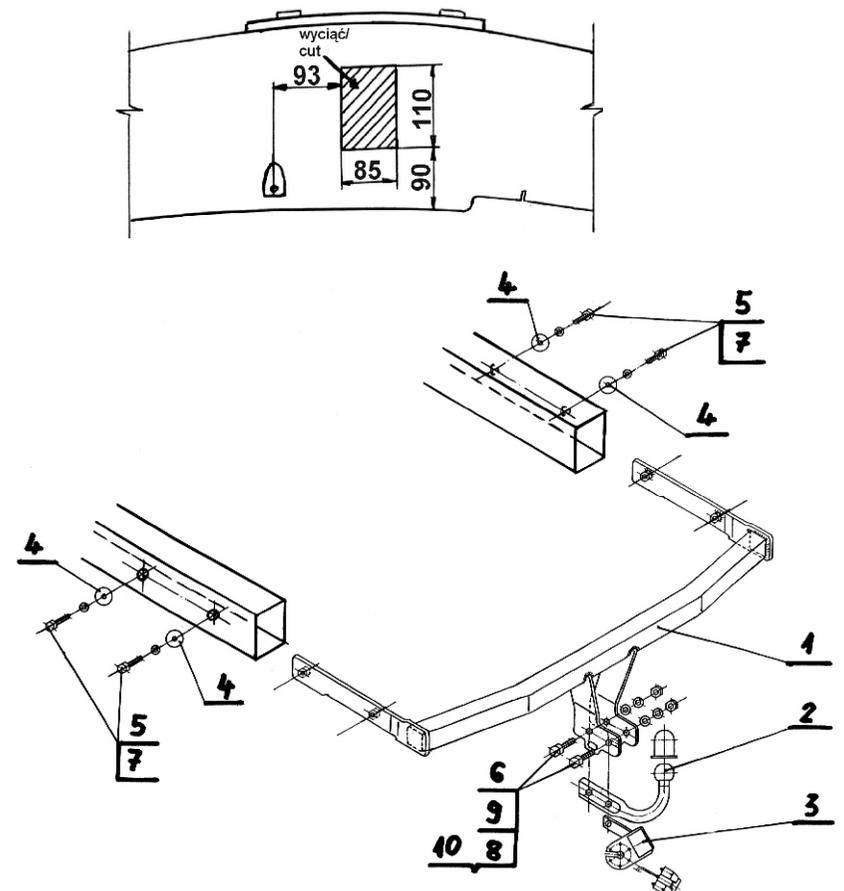
**Obeying this instruction assures correct montage and the tow bar operating in a Seat Cordoba (4D).**

After assembling of the tow bar **S-115** you have to get entry in cars **registration book** in a quality control station .

### CAUTION :

All mechanical damages of tow bar excludes its further exploitation . Damaged ball hook **cannot be repaired**. In case of braking the rules of montage or unproper usage manufacturer **do not take responsibility** for arised damages .

### MONTAGE DIAGRAM :



### NOTE :

Bunch of wires is not included (in total price).