

**DESTINATION**

Tow bar **O-128** for a **Opel Corsa D (3/5D)** 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 **O-128** 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 **O-128** has a rating plate describing correct and safe loads of the hook:

|  |   |
|--|---|
| Typ: <b>O-128</b><br><b>A50-X</b><br><b>e4</b> <b>00 - 3862</b><br><b>D = 7,6 kN</b><br><b>S = 55 kg</b><br><b>R = 1300 kg</b> | The tow bar for <b>Opel Corsa D (3/5D)</b><br>Tow bar class ( compressing device )<br>Tow bar certification of approval number<br>Teoretical related force working on a ball hook<br>Max permissible vertical load of the hook ball<br>Max permissible load of towing trailer |
|--|---|

**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 vehicale (also towing tractors) including, if neccessary, 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 **O-128** for **Opel Corsa D (3/5D)** is made up of elements as follows :

- |                                |            |                        |            |
|--------------------------------|------------|------------------------|------------|
| 1. Towbar mainframe            | - 1 piece  | 9. Bolt M10x40         | - 6 pieces |
| 2. Right cantilever - set      | - 1 piece  | 10. Bolt M12x35        | - 4 pieces |
| 3. Left cantilever - set       | - 1 piece  | 11. Bolt M12x100       | - 2 pieces |
| 4. Electrical socket plate     | - 1 piece  | 12. Spring washer 10,2 | - 6 pieces |
| 5. Tow ball                    | - 1 piece  | 13. Spring washer 12,2 | - 6 pieces |
| 6. Special washer 40/ 10,5x2,5 | - 2 pieces | 14. Flat washer 10,5   | - 4 pieces |
| 7. Special washer 30/ 10,5x3   | - 4 pieces | 15. Flat washer 13,0   | - 6 pieces |
| 8. Distance insert             | - 2 pieces | 16. Nut M10            | - 4 pieces |
|                                |            | 17. Nut M12            | - 4 pieces |

Follow the general directions in order to fit **O-128** tow bar properly:

- 1.Rear bumper's cutting is required.
2. Remove the rear bumper of the car, together with metal inside bumper (the inside bumper will not be used again).
3. Insert (2) / (3) inside of the chassis side members, put it to the back panel and attach to using: factory-made bolts and nuts M10, (9), (7), (14), (12), (16) and attach to the chassis side members using (9), (6), (12).
4. Insert (1) between fitted (2), (3) and attach using (10), (15), (13), (17).
5. Cut a slot in the lower edge of the bumper. The dimensions of the cut are about 80mm x 30 mm. Template is attached.
6. Insert plastic factory clips on holders in points A.
8. Refit the rear bumper.
8. Attach (5) to (1) together with (8) and (4), using (11), (15), (13), (17).

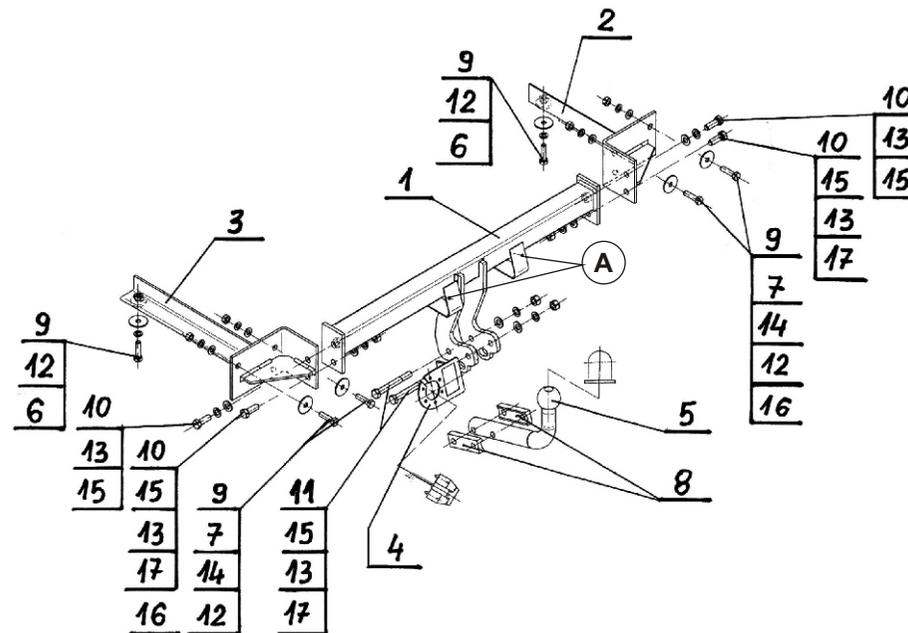
**Obeying this instruction assures correct montage and the tow bar operating in a Opel Corsa D (3/5D).**

After assembling of the tow bar **O-128** you have to get entry in cars **registration book** in a quality control station.

**CAUTION :**

Check if all bolts and nuts are correctly tightened after 1000km. Keep tow ball clean, grease and cased. 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).