





**DESTINATION**

Tow bar **N-058** is designed for towing a trailer. This ball hook has a current certification of approval authorizing the product with **E20** certification sign.

**FITTING CONDITIONS**

Tow bar **N-058** 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 **N-058** has a rating plate describing correct and safe loads of the hook:

|                        |  |
|------------------------|--|
| Typ: <b>N-058</b>      | Tow bar catalogue number.                        |
| <b>A50-X</b>           | Tow bar class (compressing device)               |
| <b>E20 55R-01 4033</b> | Tow bar certification of approval number         |
| <b>D = 6,8 kN</b>      | Theoretical related force working on a ball hook |
| <b>S = 75 kg</b>       | Max permissible vertical load of the hook ball   |
| <b>R = 1300 kg</b>     | 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 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 **N-058** is made up of the following elements:

- |                               |            |                         |            |
|-------------------------------|------------|-------------------------|------------|
| 1. Towbar mainframe           | - 1 piece  | 8. Bolt M10x30          | - 8 pieces |
| 2. Tow ball (ACS-2011)        | - 1 piece  | 9. Bolt M12x25          | - 4 pieces |
| 3. Tow ball socket (ACS)      | - 1 piece  | 10. Bolt M12x30         | - 4 pieces |
| 4. Electrical socket          | - 1 piece  | 11. Spring washer Ø10,2 | - 8 pieces |
| 5. Right support              | - 1 piece  | 12. Spring washer Ø12,2 | - 8 pieces |
| 6. Left support               | - 1 piece  | 13. Round washer Ø13,0  | - 8 pieces |
| 7. Special washer Ø30/Ø10,5x3 | - 8 pieces | 14. Nut M12             | - 4 pieces |

Please follow the installation fitting instruction below in order to ensure correct installation of the towbar:

1. Installation requires removing and cutting rear bumper.
2. Remove the rear bumper.
3. Lower the silencer with hanger.

4. Remove the plugs from the chassis (it will not be reused).
5. Slide the supports (5, 6) into the stringers and screw using bolts M10x30 (8) with washers Ø30/Ø10,5x3 (7) and spring washers Ø10,2 (11).
6. Cut a piece of plastic fulfillment of the bumper according to the fig. 2.
7. Make an undercut in the bumper according to the fig. 1.
8. Attach the towbar mainframe (1) to the supports (5, 6) and screw using bolts M12x30 (10) with round washers Ø13,0 (13), spring washers Ø12,2 (12) and nuts M12 (14).
9. Attach the tow ball socket (3) and electrical plate (4) to the towbar mainframe (1) using bolts M12x25 (9), with round washers Ø13,0 (13), spring washers Ø12,2 (12).
10. Install the rear bumper.
11. Plug the tow ball (2) into the socket (3) following the attached instructions.

**Caution:**

Different types of (2) may be attached to the (1) only if:

1. The adapted tow has its own information label with homologation number
2. D and S values are equal or higher than (1) values.
3. Tow ball centre-point is in accordance with the drawing.

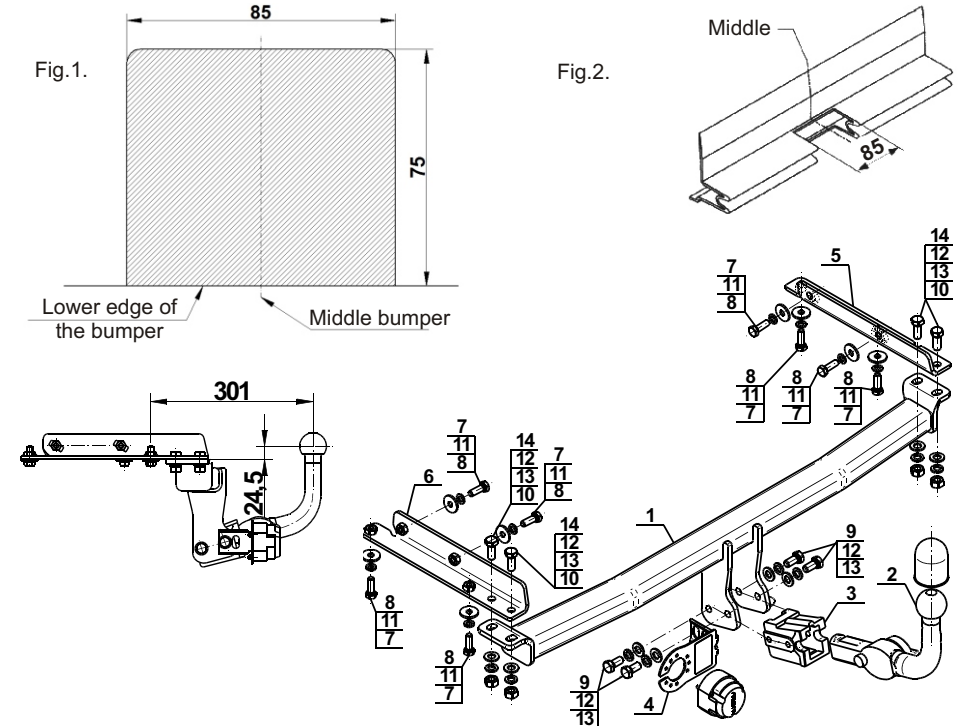
**Obeying this instruction assures correct montage and the N-058 tow bar operating.**

After assembling of the tow bar **N-058** you have to get entry in cars registration book.

**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).



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