

DESTINATION

Tow bar **P-034** for a **Peugeot 307 Combi** 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 **P-034** 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 (M_o). Torque values are given below:

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

OPERATION CONDITIONS

The tow bar **P-034** has a rating plate describing correct and safe loads of the hook:

Typ: P-034 A50-X e20 0039-00 D = 9,1 kN S = 60 kg R = 1700 kg	The tow bar for Peugeot 307 Combi 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 $9,81 \text{ m/s}^2$)

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 **P-034** for **Peugeot 307 Combi** is made up of the following elements :

- | | | | |
|-----------------------------|------------|-----------------------|------------|
| 1. Tow bar's body | - 1 piece | 6. Spring washer 12,2 | - 4 pieces |
| 2. Ball hook with support | - 1 piece | 7. Spring washer 10,2 | - 6 pieces |
| 3. Electrical socket holder | - 1 piece | 8. Flat washer 10,5 | - 6 pieces |
| 4. Bolt M12x30 | - 4 pieces | 9. Nut M10 | - 6 pieces |
| 5. Bolt M10x30 | - 2 pieces | | |

Follow the general directions in order to fit P-034 tow bar properly

- 1.Rear bumper cutting is required (cut-out in lower strip of rear bumper dimensions: 45x150 mm).
- 2.Dismantle bumper from a car.
- 3.Remove strengthening from rear bumper there is not a space for strengthening after tow bars installation.

- 4.Dismantle a tow bar into kit form elements.
- 5.Screw a tow bar's body (1) down to the back strip using bolts M8x30 (6 pcs.) received after strengthening removal.
- 6.Then screw (1) home with back strip through two remaining openings including bolts M10x30 (5), flat washers 10,5 (8), spring washers 10,2 (7) and nuts M10 (9).
- 7.Screw tow bar's body metal sheets with longitudinal chassis elements using nuts M10 (9), spring 10,2(7) and flat 10.5(8)washers.
- 8.Place rear bumper to the car, marti the point and dimensions of cut-out then proceed cutting.
- 9.Mount ball hook with support (2) into (1) using bolts M12x30 (4), spring washers 12,2 (6) (add electrical socket to the left side of ball hook in the same time).
- 10.Place then screw rear bumper to the back of the car.
- 11.Check if all fixing bolts, nuts are screwed hard enough.

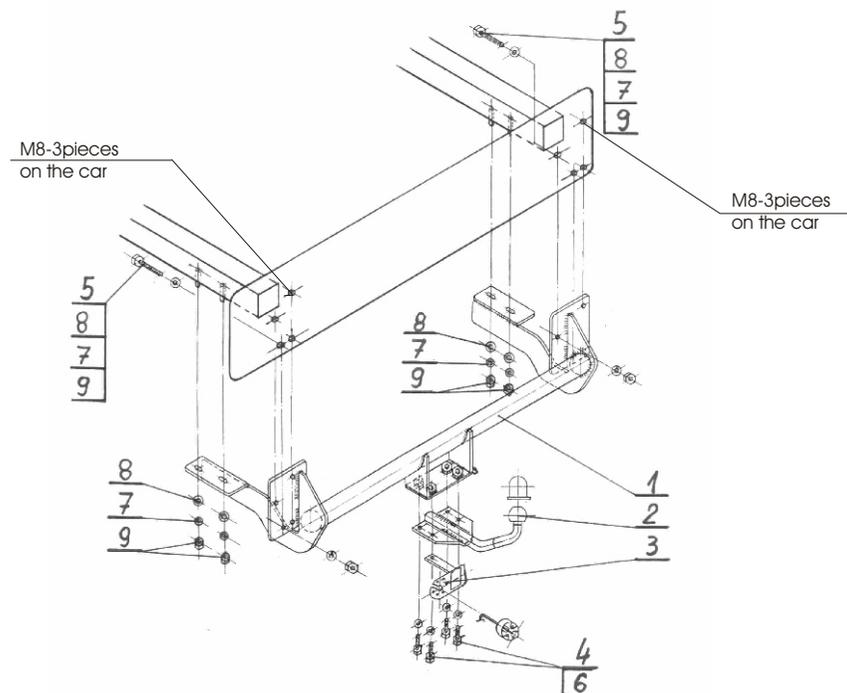
Obeying this instruction assures correct montage and the tow bar operating in a Peugeot 307 Combi

After assembling of the tow bar **P-034** 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).