

**TOW BAR T-106 FOR  
Toyota Camry (4D)  
(2006 - r.)  
FITTING AND OPERATION MANUAL**

**Cat. No.T-106**

**DESTINATION**

Tow bar **T-106** for a **Toyota Camry (4D)** 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 **T-106** 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 **T-106** has a rating plate describing correct and safe loads of the hook:

Typ: <b>T-106</b>	The tow bar for <b>Toyota Camry (4D)</b>
<b>A50-X</b>	Tow bar class ( compressing device )
<b>e20 xxxx-00</b>	Tow bar certification of approval number
<b>D = 9,8 kN</b>	Teoretical related force working on a ball hook
<b>S = 80 kg</b>	Max permissible vertical load of the hook ball
<b>R = 1800 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 **T-106** for **Toyota Camry (4D)** is made up of the following elements :

- |                                    |            |                         |            |
|------------------------------------|------------|-------------------------|------------|
| 1. Towbar mainframe                | - 1 piece  | 10. Bolt M10x(1,25)x55  | - 2 pieces |
| 2. Tow ball                        | - 1 piece  | 11. Bolt M10x(1,25)x65  | - 2 pieces |
| 3. Electrical plate                | - 1 piece  | 12. Bolt M12x100        | - 2 pieces |
| 4. Right strengthening             | - 1 piece  | 13. Spring washer Ø8,2  | - 4 pieces |
| 5. Left strengthening              | - 1 piece  | 14. Spring washer Ø10,2 | - 8 pieces |
| 6. Distance sleeve<br>Ø24/Ø10,5x13 | - 2 pieces | 15. Spring washer Ø12,2 | - 2 pieces |
| 7. Distance insert                 | - 2 pieces | 16. Flat washer Ø8,4    | - 4 pieces |
| 8. Square taper washer (do=11)     | - 8 pieces | 17. Flat washer Ø13,0   | - 2 pieces |
| 9. Bolt M8x30                      | - 4 pieces | 18. Nut M10x(1,25)      | - 4 pieces |
|                                    |            | 19. Nut M12             | - 2 pieces |

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Follow the general directions in order to fit **T-106** towbar properly:

- 1.Rear bumper removing is required while cutting is **not required**.
- 2.Remove rear bumper and its metal strengthening ( the strengthening will not be used after).
- 3.Lower the silencer hangers by unscrewing handles (according to pic. 1) placed on the left and right chassis side member ( handles will not be used anymore). Remove the silencer from the hangers.
- 4.Remove silencer thermal screens from right and left side.
- 5.Attach (4,5) with silencer hangers to chassis side members from the bottom, then tight loosely from the bottom, using existing, factory-made bolts M10,and from the side, using (9, 13,16), (hangers should cling to chassis side members).
- 6.Tight (4,5) to the rear panel in A-points, using (10) and in B-points, using (11,14,) according to the schema.
- 7.Attach (1) to the existing pins placed on rear panel and tight, using factory-made nuts M10 and (18,8,14).

**Warning:**

- in A-points between rear panel and towbar mainframe supporters (1) attach (6,8) onto existing pins
  - in B-points between rear panel and towbar mainframe supporters (1) attach (6,8) onto existing pins
- 8.Tighten all bolts and nuts.
  - 9.Refit thermal screens, and silencers.
  - 10.Refit the rear bumper.
  - 11.Attach (2),(3) to the (1), using (12,7,17,15,19).

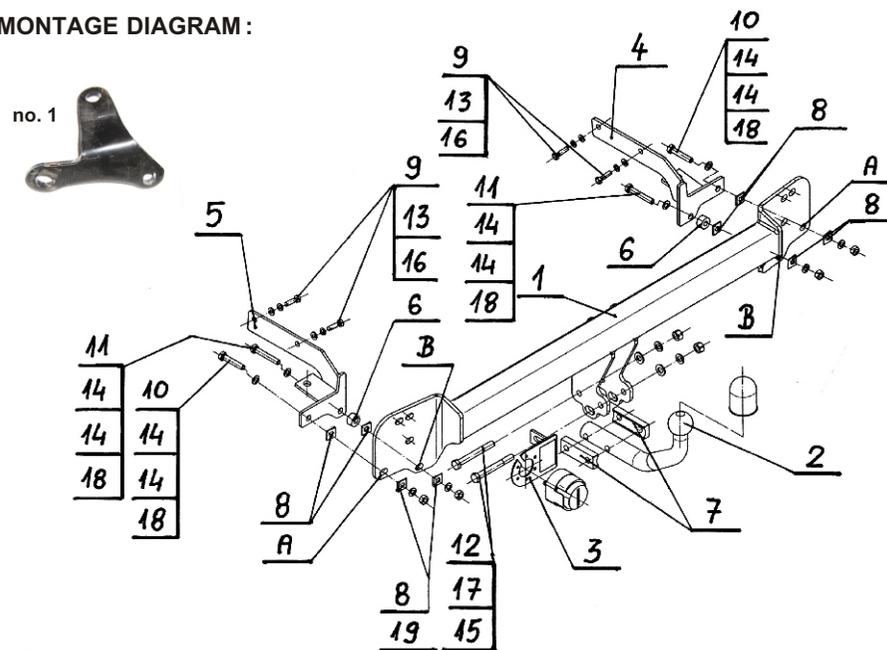
**Obeying this instruction assures correct montage and the tow bar operating in a Toyota Camry (4D).**

After assembling of the tow bar **T-106** 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).

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