



TOW BAR T-165 FOR TOYOTA LANDCRUISER (3D), (J125) (12/2002 - r.) FITTING AND OPERATION MANUAL.

Zertifikat Nr. 71 100 D 366

Cat. No. T-165

DESTINATION

Tow bar T-165 for a Toyota Landcruiser (3D), (J125) 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 T-165 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 (N	lm)		M12	-	85	(Nm)
M10	-	50 (N	lm)	Co	M16	-	200	(Nm)

OPERATION CONDITIONS

The tow bar **T-165** has a rating plate describing correct and safe loads of the hook:

Typ: T-165 A50-X e4 00 - 3424 D = 16,3 kN S = 115 kg R = 2800 kg	The tow bar for Toyota Landcruiser (3D), (J125) 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:



T-technically permissible maximum mass in tonnes of the towing vehicale (also towning 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/s²)

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 .lt 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-165** for **Toyota Landcruiser (3D)**, **(J125)** is made up of elements as follows:

- 1. Towbar mainframe
- 2. Forged ball
- 3. Bolt M12x(1,25)x40
- 4. Bolt M16x50
- 5. Spring washer 12
- piece
- -11 piece - 6 pieces
- - 7. Flat washer 13.0 8. Flat washer 17,0
- 2 pieces 9. Nut M16 6 pieces
- 6. Spring washer 16.3
- 6 pieces - 2 pieces

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- 2 pieces

- 2 pieces

Follow the general directions in order to fit **T-165** tow bar properly:

- 1.Rear bumper cutting is required.
- 2. Take the towbar to pieces.
- 3. Remove rear bumper and metal clumps (drawing 1 and 2).
- 4. On the frame find openings with bolt M12(1,25), (1) to them and then screw using (3) and (6) and (7).
- 5. Cut the metal clups (drawing 1) and then attach to the frame.
- 6. Undercut the rear bumper (drawing 2) and then attach to the car.
- 7. Attach (2) to (1) using (4), (8), (6) and (9).
- 8. Check if all bolts and nuts are correctly tightened.

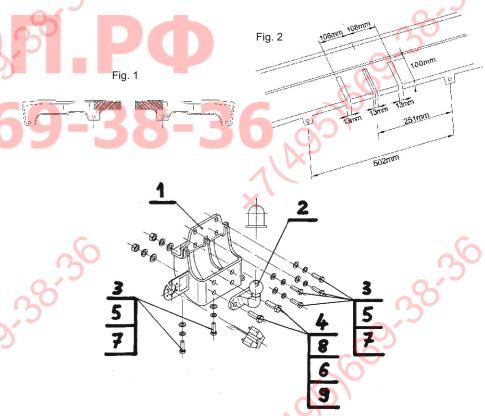
Obeying this instruction assures correct montage and the tow bar operating in a Toyota Landcruiser (3D), (J125).

After assembling of the tow bar T-165 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)