

# TOW BAR F-058 FOR FIAT DOBLÓ ( 2000 - r.) FITTING AND OPERATION MANUAL.

**Cat. No. F-058**

## DESTINATION

Tow bar **F-058** for a **Fiat Dobló** 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 **F-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 **F-058** has a rating plate describing correct and safe loads of the hook:

Typ: <b>F-058</b> <b>A50-X</b> <b>e4</b> <b>00-3104</b> <b>D</b> = 7,6 kN <b>S</b> = 90 kg <b>R</b> = 1300 kg	The tow bar for <b>Fiat Dobló</b> 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 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 **F-058** for **Fiat Dobló** is made up of the following elements:

1. Towbar mainframe	- 1 piece	9. Bolt M10x35	- 2 pieces
2. Tow ball	- 1 piece	10. Bolt M12x100	- 4 pieces
3. Electrical plate	- 1 piece	11. Spring washer 8,2	- 6 pieces
4. Spacer	- 2 pieces	12. Spring washer 10,2	- 2 pieces
5. Special washer 60/ 12,5x2,5	- 2 pieces	13. Spring washer 12,2	- 4 pieces
6. Distance sleeve 17,3/ 12,5x75	- 2 pieces	14. Flat washer 8,4	- 6 pieces
7. Special washer	- 2 pieces	15. Flat washer 10,5	- 2 pieces
8. Bolt M8x25	- 6 pieces	16. Flat washer 13,0	- 2 pieces
		17. Nut M12	- 4 pieces

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In order to mount the ball hook **F-058** you have to obey the instruction below:

1. Rear bumper cutting is required. Make the cut-out from the bottom of the bumper size 80x90(mm).
2. Remove the rear bumper of the car and remove the inside bumper. After attached the rear bumper there is no place to refit the inside bumper.
3. Unpack the towbar packing and separate components. Check all parts are present.
4. Find the factory-made holes situated on the chassis side memebers from the bottom of the car and remove the rubber plugs. Make same from inside of the trunk.
5. Insert (7) in the chassis side members.
6. Insert (10), (5) from side of the trunk, and from the bottom of the chassis side members insert (6) in the holes.
7. Put (1) to the chassis side members and attach using (17), (13), (9), (12), (15).
8. Attach (1) to the back panel of the car in place of the inside bumper using (8), (11), (14).
9. Put the rear bumper to the car and mark the place and size of cut-out from the bottom of the bumper, make the cut-out and refit to the car.
10. Attach (2) to (1) with (4) using (10), (16), (13), (17), attach (3) on the left side of (2) at the same time
11. Check if all fixing bolts and nuts are correctly tightened.

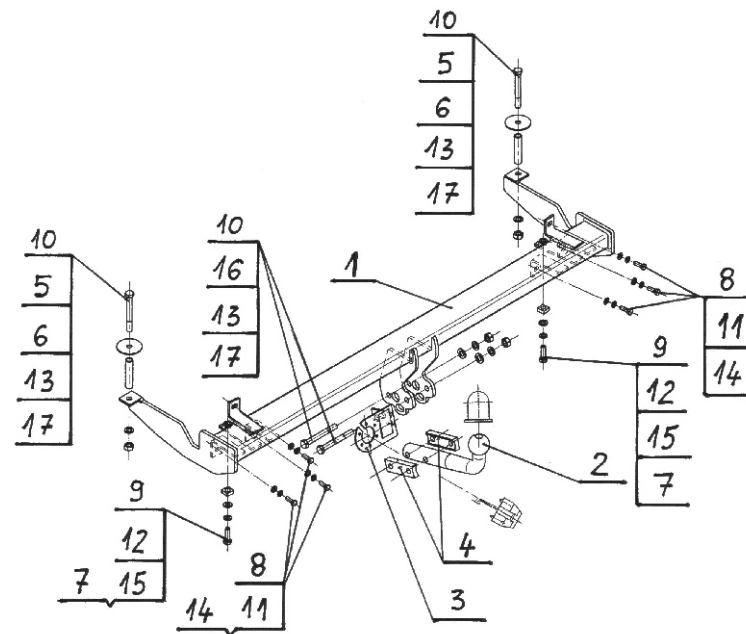
**Obeying this instruction assures correct montage and the tow bar operating in a Fiat Dobló.**

After assembling of the tow bar **F-058** 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).

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