

Towbar fitting and operating instruction Mercedes W210 (4D) E - Class (06/1995 - 03/2002)

Cat. No. M-122

DESTINATION

Tow bar **M-122** for a **Mercedes W210 (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 **M-122** 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 **M-122** has a rating plate describing correct and safe loads of the hook:

Typ: M-122 A50-X e20 0708-00 D = 10,8 kN S = 75 kg R = 2200 kg	The tow bar for Mercedes W210 (4D) Tow bar class (compressing device) Tow bar certification of approval number Theoretical 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/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. 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 **M-122** for **Mercedes W210 (4D)** is made up of the following elements:

1. Towbar mainframe	- 1 piece	7. Bolt M12x30	- 8 pieces
2. Tow ball	- 1 piece	8. Bolt M12x40	- 4 pieces
3. Electrical plate	- 1 piece	9. Spring washer Ø12,2	- 12 pieces
4. Right support	- 1 piece	10. Flat washer Ø13,0	- 4 pieces
5. Left support	- 1 piece	11. Nut M12	- 2 pieces
6. Special washer Ø40/Ø12,5x3	- 4 pieces		

Follow the general directions in order to fit **M-122** towbar properly:

- Rear bumper cutting is not required.
- Dismantle the rear bumper. Unpack the towbar packing and separate components. Check all parts are present.

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- Make 2 cuts in the back strip to inside the chassis side members.
- In the bottom part of the chassis side member (at the back strip) find for 2 factory made points in each side, next drill for 2 holes Ø12,5.
- Remove the silencer from the hanger and remove the shield from the silencer.
- Drill the missing hole Ø12,5 in the chassis side member to attach left support (5) on silencer side.
- Insert (4) and (5) into the chassis side members and pre-screw them to the chassis side members using (7), (9), (6).
- Put (1) from the bottom of the chassis side members and attach to (4), (5) using (8), (10), (9), (11).
- Refit the bumper, hang the silencer and attach the shield of silencer.
- Attach (2) to (1) using (7), (9), add (3) on the left side of (2).
- Check if all fixing bolts and nuts are correctly tightened.

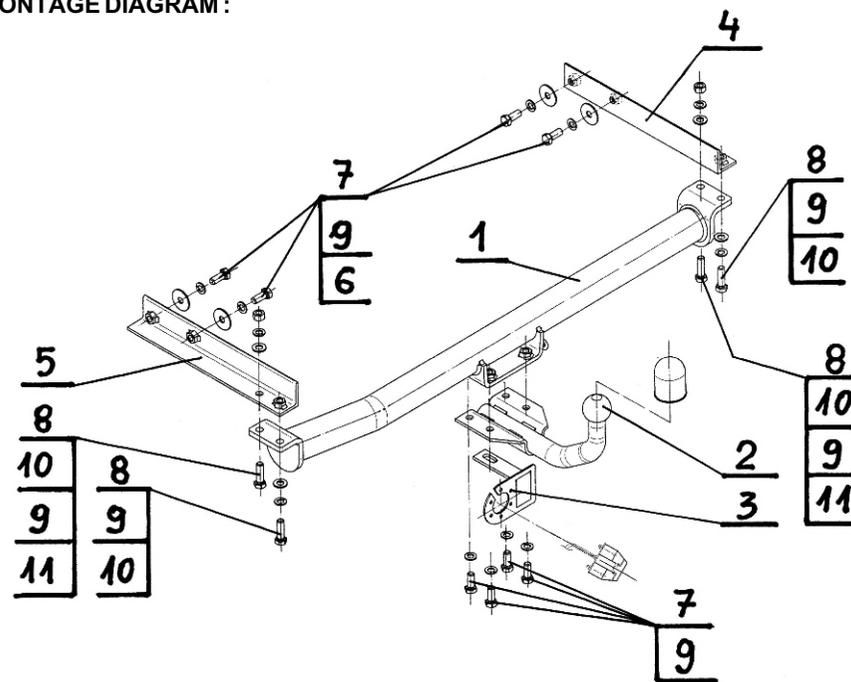
Obeying this instruction assures correct montage and the towbar operating in Mercedes W210 (4D).

After assembling of the ball hook **Mercedes W210 (4D)** you have to get entry in cars **registration book** in a quality control station.

CAUTION:

Check bolt couplings after every 1000 kms made. Towball should be held in cleanness and oiled with the solid oil. Use towball protection. All mechanical damages of ball hook excludes its longer exploitation. Damaged ball hook **cannot be repaired**. The tow hook user should check bolt's joints periodically during operating time. In case of braking the rules of montage or improper 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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