

Cat. No.M-126

DESTINATION

Tow bar **M-126** 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-126** 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-126** has a rating plate describing correct and safe loads of the hook:

Typ: M-126	Tow bar catalogue number.
A50-X	Tow bar class (compressing device)
E20 55R-01 3229	Tow bar certification of approval number
D = 11,5 kN	Teoretical related force working on a ball hook
S = 90 kg	Max permissible vertical load of the hook ball
R = 2200 kg	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/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-126** is made up of the following elements :

- | | | | |
|--------------------------------|------------|--------------------------------|------------|
| 1. Towbar mainframe | - 1 piece | 13. Screw M6x20 | - 8 pieces |
| 2. Tow ball | - 1 piece | 14. Screw M10x30 | - 4 pieces |
| 3. Right strengthening | - 1 piece | 15. Screw M10x50 | - 8 pieces |
| 4. Left strengthening | - 1 piece | 16. Screw M12x65 | - 2 pieces |
| 5. Right holder | - 1 piece | 17. Spring washer Ø6,2 | - 8 pieces |
| 6. Left holder | - 1 piece | 18. Spring washer Ø10,2 | -12 pieces |
| 7. Right support | - 1 piece | 19. Spring washer Ø12,2 | - 2 pieces |
| 8. Left support | - 1 piece | 20. Flat washer increased Ø6,5 | - 8 pieces |
| 9. Washer | - 2 pieces | 21. Flat washer Ø10,5 | - 4 pieces |
| 10. Flat bar | - 2 pieces | 22. Flat washer Ø13,0 | - 4 pieces |
| 11. Electrical socket plate | - 1 piece | 23. Nut M10 | - 8 pieces |
| 12. Special washer Ø30/Ø10,5x3 | -12 pieces | 24. Nut M12 | - 2 pieces |

Please follow the installation fitting instruction below in order to ensure correct installation of the towbar:

21.12.2017.

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- 1.Rear bumper cutting is not required but it removing is required.
2. Empty the trunk floor and remove the rear side panels.
3. Install in the trunk strengthenings (3, 4) from the left and right side using bolts M6x20 (13) with spring washers Ø6,2 (17) and round washers Ø6,5 (20) (For some models should be ordered original strengthening with catalogue no A211 639 0143 and A211 639 0443).
4. Remove the rear bumper with it reinforcement.
5. Unscrew the strengthening brackets (will not be re-used).
6. From trunk side put the flat bars (10) with bolts M10x50 (15), then attach towbar mainframe (1) to the rear belt, slide the supports (7, 8) to the inside of stringers and screw on using bolts M10x30 (14) with washers (9), spring washers Ø10,2 (18) and round washers Ø10,5 (21) then screw on using bolts M10x50 (15) with washers Ø30/Ø10,5x3 (12), spring washers Ø10,2 (18) and nuts M10 (23).
7. Seal the places according to the fig. 1.
8. Attach the holders (5, 6) to the towbar mainframe (1) and screw on using bolts M10x50 (15) with washers Ø30/Ø10,5x3 (12), spring washers Ø10,2 (18) and nuts M10 (23).
9. Install the bumper's strengthening beam to holders (5, 6)using factory bolts, if is necessary reduce the clearance between beam and holders using round washers Ø13,0 (22).
10. Install rear bumper and elements removed from the trunk.
11. Attach the tow ball (2) and electrical plate (11) to the towbar mainframe (1) using bolts M12x65 (16) with round washers Ø13,0 (22), spring washers Ø12,2 (19) and nuts M12 (24).

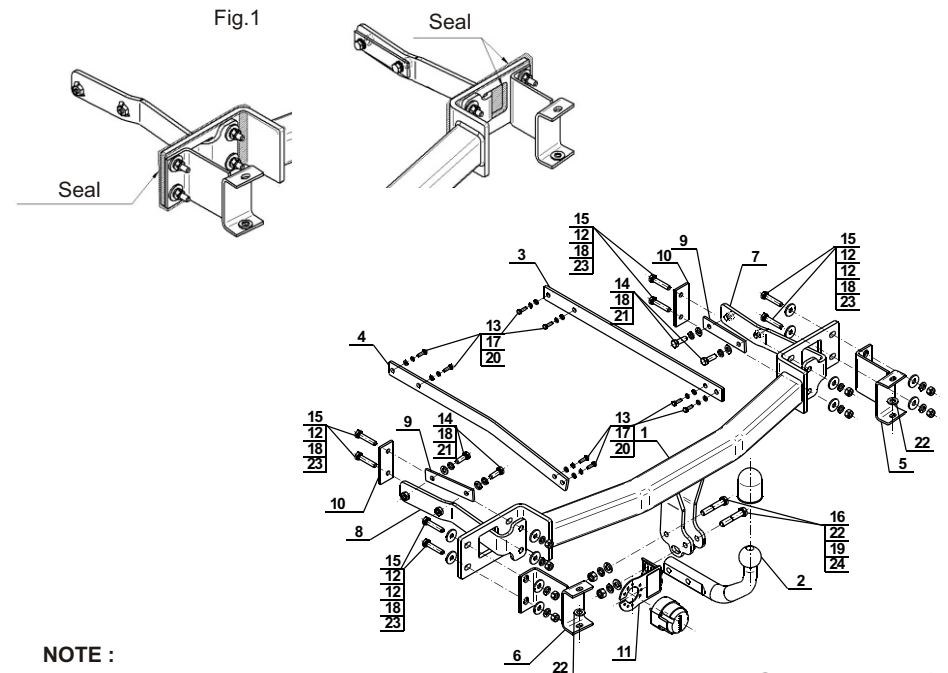
Obeying this instruction assures correct montage and the M-126 tow bar operating.

After assembling of the tow bar **M-126** you have to get entry in cars **registration book**.

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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