



TOW BAR R-127

Renault Trafic (05/2001 - r.) / Opel Vivaro (2001 - r.)
Nissan Primastar (09/2002 - r.)

FITTING AND OPERATION MANUAL.

Cat. No.R-127

DESTINATION

Tow bar R-127 for a Renault Trafic / Opel Vivaro / Nissan Primastar 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 R-127 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 (M_o). Torque values are given below :

M8 - 25 (Nm)	M12 - 85 (Nm)
M10 - 50 (Nm)	M16 - 200 (Nm)

OPERATION CONDITIONS

The tow bar R-127 has a rating plate describing correct and safe loads of the hook :

Typ: R-127
A50-X
e20 0180-00
D = 11,8 kN
S = 80 kg
R = 2000 kg

The tow bar for Renault Trafic / Opel Vivaro / Nissan Primastar
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

D - force is calculated using the following formula:

$$D = g \cdot \frac{T \cdot R}{T + R} \text{ kN}$$

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 R-127 for Renault Trafic / Opel Vivaro / Nissan Primastar is made up of the following elements :

1. Towbar mainframe	- 1 piece	7. Bolt M16x50	- 2 pieces
2. Forget towball	- 1 piece	8. Spring washer 10,2	-10 pieces
3. Right strengthening	- 1 piece	9. Spring washer 16,3	- 2 pieces
4. Left support strengthening	- 1 piece	10. Flat washer 10,5	- 6 pieces
5. Bolt M10x30	- 6 pieces	11. Flat washer 17,0	- 2 pieces
6. Bolt M10x35	- 4 pieces	12. Nut M10	- 4 pieces
		13. Nut M16	- 2 pieces

Follow the general directions in order to fit R-127 tow bar properly:

1.Rear bumper both cutting is not required. There is also no need remove it.

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- 2.Unpack the towbar packing and separate components. Check all parts are present.
- 3.Put (1) from the bottom of the chassis frame members, next attach using (6) with (8),(10) to the factory welded nuts M10.
- 4.Put (3) and (4) to the chassis frame members, next attach together using (5) with (8), (10) to the factory welded nuts M10.
- 5.Attach (3) and (4) to (1) using (5),(8),(12).
- 6.Attach (2) to (1) using (7),(11),(9) and (13).
- 7.Check if all fixing bolts and nuts are screwed hard enough.

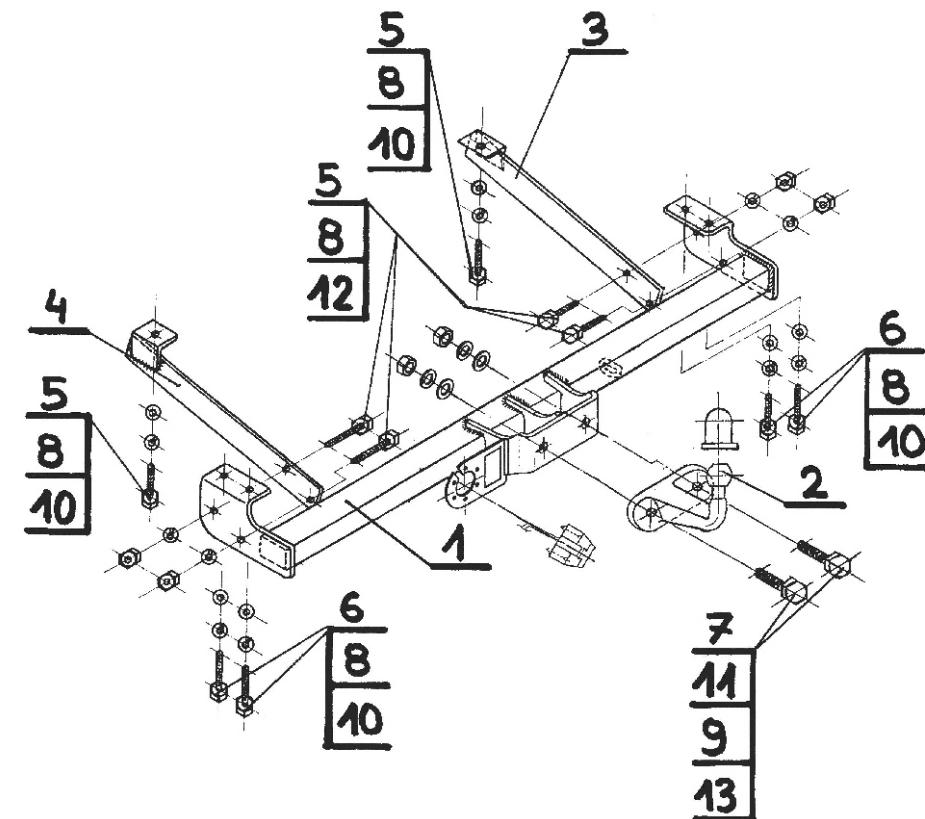
Obeying this instruction assures correct montage and the tow bar operating in a Renault Trafic / Opel Vivaro / Nissan Primastar.

After assembling of the tow bar R-127 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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