



TOW BAR R-022 RENAULT CLIO III (3/5D) (09/2005 - r.) FITTING AND OPERATION MANUAL.

Zertifikat Nr. 71 100 D 366

Cat. No.R-022

DESTINATION

Tow bar R-022 for a Renault Clio III (3/5D) 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-022 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-022** has a rating plate describing correct and safe loads of the hook:

	The tow bar for Renault Clio III (3/5D) 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	Typ: R-022 A50-X e20 0396-00 D = 7,0 kN S = 75 kg R = 1200 kg	
--	--	--	--

D - force is calculated using the following formula:

$$\mathbf{D} = g_{X} \frac{T_{X}R}{T + R} \ kN$$

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 .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-022** for **Renault Clio III (3/5D)** is made up of the following elements:

1. Tow bar mainframe	- 1 szt.	8.Bolt M10x30	- 4 szt.
2. Tow ball	- 1 szt.	9.Bolt M10x90	 4 szt.
3. Electric socket plate	- 1 szt.	10.Bolt M12x65	 2 szt.
4. Right support	- 1 szt.	11.Spring washer 10,2	- 8 szt.
5. Left support	- 1 szt.	12.Spring washer 12,2	 2 szt.
6. Distance sleeve		13.Flat washer 10,5	 8 szt.
19,0/ 10,5x58	- 4 szt.	14.Flat washer 13,0	 2 szt.
7. Special washer		15.Nut M10	 6 szt.
40/ 10,5x2,5	- 6 szt.	16.Nut M12	 2 szt.

16.03.2009. Cat. No. R-022 Follow the general directions in order to fit **R-022** tow bar properly:

- 1.Rear bumper cutting is not required.
- 2. Take the tow bar to pieces.
- 3. Remove the spare wheel.
- 4. Remove the silencer and the thermal shield
- 5. Remove plugs from the openings.
- 6.Put (6), (7) and (9) to the chassis rail.
- 7. Put (4) and (5) to the chassis rail and screw using (15), (7), (13) and (11).
- 8.Attach (1) to (4) and (5) using (8), (13), (11) and (15).
- 9. Refit all removed parts.
- 10.Attach (2) and (3) to (1) using (10), (14), (12) and (16).
- 11. Check if all bolts and nuts are correctly tightened.

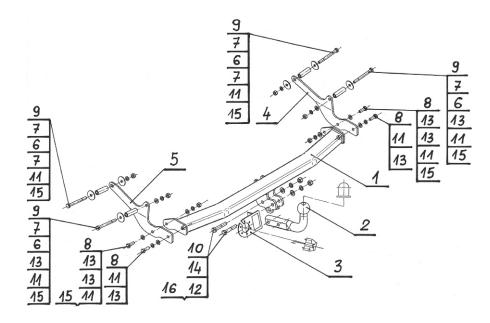
Obeying this instruction assures correct montage and the tow bar operating in a Renault Clio III (3/5D).

After assembling of the tow bar R-022 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).

Cat. No. R-022