

# Towbar fitting and operating instruction Nissan Primera (4/5D) (P12) ( 2002 - )

Cat. No. N-090

## DESTINATION

Tow bar **N-090** for a **Nissan Primera (4/5D)** 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 **N-090** 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 **N-090** has a rating plate describing correct and safe loads of the hook:

Typ: <b>N-090</b> <b>A50-X</b> <b>e20</b> <b>xxxx-00</b> <b>D</b> = 9,4 kN <b>S</b> = 75 kg <b>R</b> = 1850 kg	The tow bar for <b>Nissan Primera (4/5D)</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 **N-090** for **Nissan Primera (4/5D)** is made up of the following elements:

1. Tow bar mainframe	- 1 piece	7. Bolt M12x65	- 2 pieces
2. Tow ball	- 1 piece	8. Spring washer 10,2	- 11pieces
3. Electrical plate	- 1 piece	9. Spring washer 12,2	- 2 pieces
4. Flat bar - set	- 1 piece	10.Flat washer 10,5	- 11pieces
5. Distance washer 25/ 13,0x5	- 1 piece	11.Flat washer 13,0	- 2 pieces
6. Bolt M10x40	- 11pieces	12.Nut M12	- 2 pieces

Follow the general directions in order to fit **N-090** towbar properly:

- 1.Rear bumper cutting is required. Also there is a need to remove it.
- 2.Dismantle the tow bar into kit-form elements.

- 3.Dismount the rear bumper and the exhaust silencer.
- 4.Unscrew the lashing eye (it will not be fitted again).
- 5.Insert (4) into the left chassis frame member. Into the right one insert (5) see figure.
- 6.Insert (1) into the chassis side members and screw with them using (6), (10) and (8).
- 7.Do the undercut of the bumper, size about 60x60 (mm) see the figure.
- 8.Refit the silencer and the rear bumper.
- 9.Attach (2) to (1) using (7), (11), (9) and (12), screwing (3) on the left side of (2) at the same time.
- 10.Check if all nuts and bolts are correctly tightened.

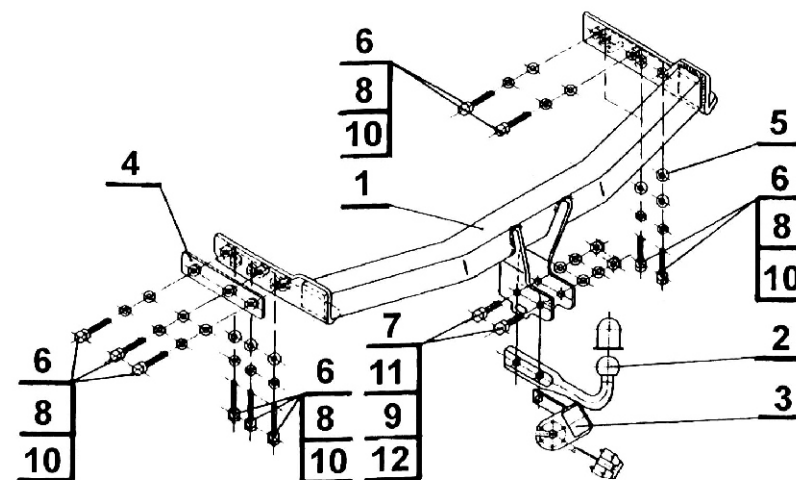
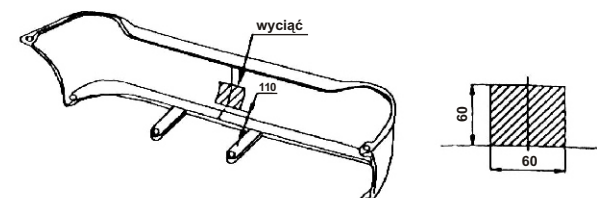
Obeying this instruction assures correct montage and the towbar operating in Nissan Primera (4/5D).

After assembling of the ball hook **Nissan Primera (4/5D)** 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).