

DESTINATION

Tow bar **N-100** for a **Nissan X-Trail** is designed for towing a trailer. This tow bar has a current certification of approval authorizing the product with **e20** certification sign.

FITTING CONDITIONS

Tow bar **N-100** can be used and operated in a car with proper technical conditions of body elements. Those parts cannot be mechanically damaged. The tow bar has to be installed and operated in a car according to this instruction. All bolts and nuts in tow bar have to be screwed down with proper torque (M₀). Torque values are given below:

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

OPERATION CONDITIONS

The tow bar **N-100** has a rating plate describing correct and safe loads of the hook:

Typ: N-100 A50-X e20 0182-00 D = 11,1 kN S = 100 kg R = 2250 kg	The tow bar for Nissan X-Trail 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 tow bar 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 tow bar. If screws are eased, it is necessary to screw them down.

FITTING

The tow bar **N-100** for **Nissan X-Trail** is made up of the following elements:

1. Towbar mainframe	- 1 piece	9. Spring washer	12,2	- 2 pieces
2. Right holder	- 1 piece	10.Spring washer	10,2	- 13pieces
3. Left holder	- 1 piece	11.Spring washer	8,2	- 2 pieces
4. Electrical socket plate	- 1 piece	12.Flat washer	13,0	- 2 pieces
5. Tow ball	- 1 piece	13.Flat washer	10,5	- 13pieces
6. Bolt M12x65	- 2 pieces	14.Flat washer	8,4	- 2 pieces
7. Bolt M10x35	- 13pieces	15.Nut M12		- 2 pieces
8. Bolt M8x30	- 2 pieces			

Follow the general directions in order to fit **N-100** tow bar properly:

1.Rear bumper cutting **is required**.

- 2.Unmount rear bumper.
- 3.Unmount from back strip the seal metal sheets and from inside the termal filling.
- 4.From under take off the plastic overlay that protect the exhaust and the rubber from catch.
- 5.Put the supports of (1) into chassis side member and screw with them (in places where are holes with welded nuts M10), using (7) (10) and (13).
- 6.Screw (2) and (3) using (7) (10) (13) and two screws (8) with (11) and (14).
- 7.In the middle of bumper make a cut of measure: width 60mm, and deepth 120mm.
- 8.To (1) screw (5) with (4) using (6) (12) (9) and (15).
- 9.Check if all fixing bolts and nuts are correctly tightened.

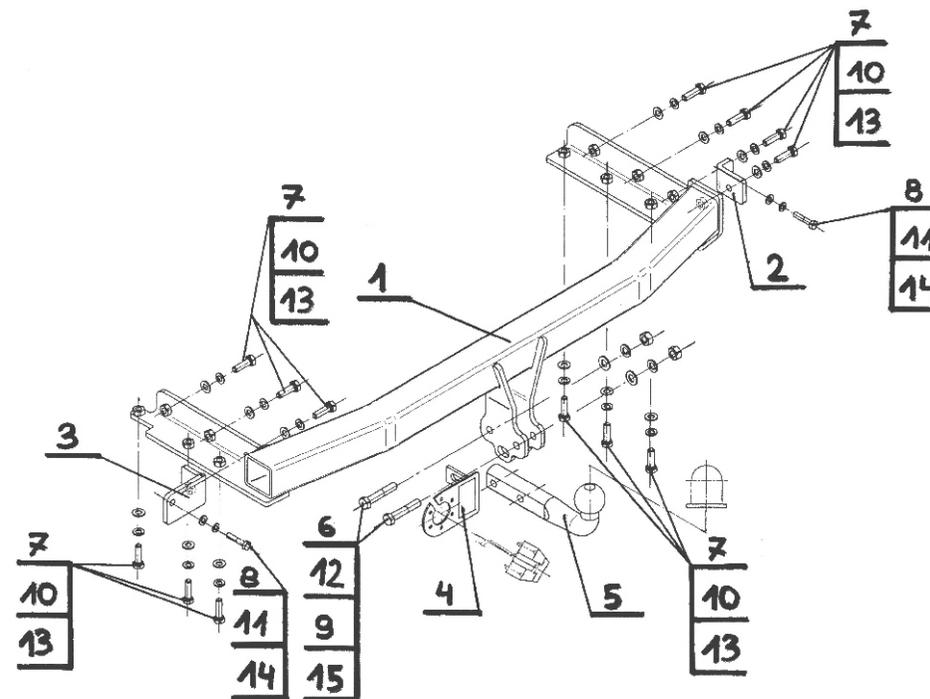
Obeying this instruction assures correct montage and the tow bar operating in a Nissan X-Trail.

After assembling of the tow bar **N-100** 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 tow bar **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).