



DIN EN ISO 9001
Zertifikat Nr. 71 100 D 366

TOW BAR M - 221
FOR Mercedes Sprinter (panel ven) (3,55/4,025)
VW LT 28 - 35 (panel ven) (3,55/4,025)
(02/1995 - r.)
FITTING AND OPERATION MANUAL.
Nr kat. M-221

DESTINATION

Tow bar M-221 for a **Mercedes Sprinter / VW LT 28-35** 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-221** 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 **M-221** has a rating plate describing correct and safe loads of the hook :

Typ: M-221	The tow bar for Mercedes Sprinter / VW LT 28-35
A50-X	Tow bar class (compressing device)
E20 55R-01 1253	Tow bar certification of approval number
D = 15,3 kN	Theoretical related force working on a ball hook
S = 120 kg	Max permissible vertical load of the hook ball
R = 2800 kg	Max permissible load of towing trailer

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-221** for **Mercedes Sprinter / VW LT 28-35** is made up of the following elements :

1. Tow bar's body	- 1 piece	9. Flat washer 13,0	- 8 pieces
2. Forget hook ball	- 1 piece	10. Flat washer 10,5	- 12 pieces
3. Bended plate right	- 1 piece	11. Spring washer 16,3	- 2 pieces
4. Bended plate left	- 1 piece	12. Spring washer 12,2	- 8 pieces
5. Bolt M10x30	- 4 piece	13. Spring washer 10,2	- 8 pieces
6. Bolt M10x35	- 4 pieces	14. Nut M12	- 8 pieces
7. Bolt M12x100	- 8 pieces	15. Nut M10	- 4 pieces
8. Bolt M16x50	- 2 pieces		

Follow the general directions in order to fit **M-221** tow bar properly:

- 1.Rear bumper cutting is **not required**.
- 2.Unpack the towbar packing and separate components. Check all parts are present.
- 3.Remove the factory-made lashing eye from the right chassis side member.
- 4.Attach (1) through side support to the chassis side members (left and right) using (7), (9), (12), (14).
- 5.Attach (3) and (4) to (1) using (6), (10), (13), (15) and attach to the chassis side members (from the bottom) using (5), (13), (10).
- 6.Screw (2) to (1) using (8) with (11).
- 7.Check if all fixing bolts and nuts are correctly tightened.

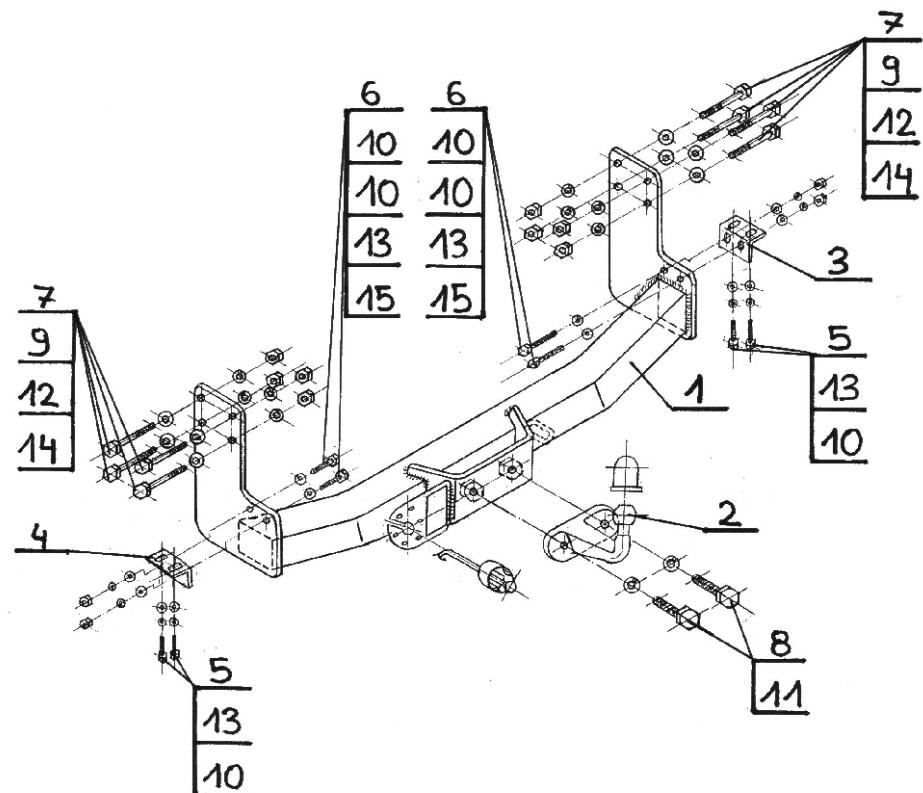
Obeying this instruction assures correct montage and the tow bar operating in a Mercedes Sprinter / VW LT 28-35.

After assembling of the tow bar **M-221** 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).