



TOW BAR V-132 FOR VOLKSWAGEN TOURAN FITTING AND OPERATION MANUAL.

(03/2003 - r.)

Cat. No.V-132

Cat. No. V-132

DESTINATION

Tow bar V-132 for a Volkswagen Touran 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 V-132 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 V-132 has a rating plate describing correct and safe loads of the hook:

D - force is calculated using the following formula:



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 V-132 for Volkswagen Touran is made up of the following elements:

1. Tow bar's body	- 1 piece	6. Bolt M12x65	 2 pieces
2. Ball hook	- 1 piece	7. Spring washer 10,2	- 4 pieces
3. Electrical socket holder	- 1 piece	8. Spring washer 12,2	- 2 pieces
4. Special washer	•	9. Flat washer 13,0	- 2 pieces
40/ 10,5x2,5	- 4 pieces	10.Nut M12	- 2 pieces
5. Bolt M10x35	- 4 pieces		

Follow the general directions in order to fit V-132 tow bar properly

- 1.Rear bumper cutting is required.
- 2. Dismantle rear bumper.

- 3. Dismantle the strenghtening of a rear bumper.
- 4. Dismantle a tow bar into kit-form elements.
- 5. Place (1) into chassis frames and screw it down using (5), (7) and (4).
- 6. Mount (1) into (2) using (6), (8), (9), and (10) screwing (3) on the left side of (2).
- 7. Place rear bumper to the car, mark place and size of a cut-out in the lower part of bumper and cut it out, mount bumper then. Size of cut-out 50x70(mm).
- 8. Check if all fixing bolts and nuts are screwed hard enough.

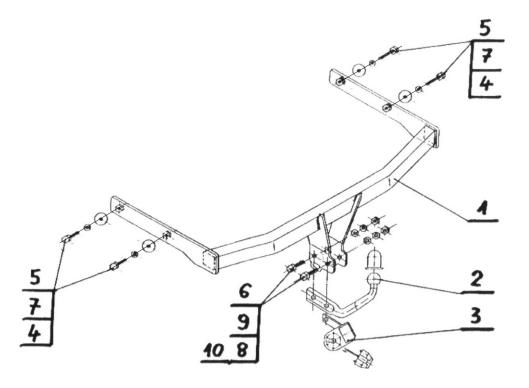
Obeying this instruction assures correct montage and the tow bar operating in a Volkswagen Touran.

After assembling of the tow bar V-132 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. V-132