

TOW BAR V-054 FOR VW GOLF III KOMBI (10/1993 - 07/1999)

FITTING AND OPERATION MANUAL.

Nr kat. V-054

DESTINATION

Tow bar **V-054** for a **VW Golf III Kombi** is designed for towing a trailer. This ball hook has a current certification of approval authorizing the product with **e4** certification sign.

FITTING CONDITIONS

Tow bar **V-054** 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-054** has a rating plate describing correct and safe loads of the hook:

Typ: V-054 A50-X e4 00-3138 D = 8,34 kN S = 75 kg R = 1500 kg	The tow bar for VW Golf III Kombi 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/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-054** for **VW Golf III Kombi** is made up of the following elements:

1. Towbar mainframe	- 1 piece	6. Bolt M12x65	- 2 pieces
2. Tow ball	- 1 piece	7. Spring washer 10,2	- 4 pieces
3. Electrical plate	- 1 piece	8. Spring washer 12,2	- 2 pieces
4. Special washer 40/ 10,5x2,5	- 4 pieces	9. Flat washer 13,0	- 2 pieces
5. Bolt M10x35	- 4 pieces	10. Nut M12	- 2 pieces

In order to mount the ball hook **V-054** you have to obey the instruction below:

1. Rear bumper cutting is required (the small cut out from the bottom of the bumper).
2. Remove the rear bumper of the car. Unpack the towbar packing and separate components. Check all parts are present.

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3. Insert the chassis side members of (1) from the side of the back strip, next attach using four bolts (5) with (4), (7).
4. Put the rear bumper, mark the place and size of cut out, next remove the bumper and make the cut out.
5. Install the cut down bumper to the car.
6. Attach (2) to (1) using (6), (9), (8), (10), attach (3) on left side of (2) at the same time.
7. Check if all fixing bolts and nuts are correctly tightened.

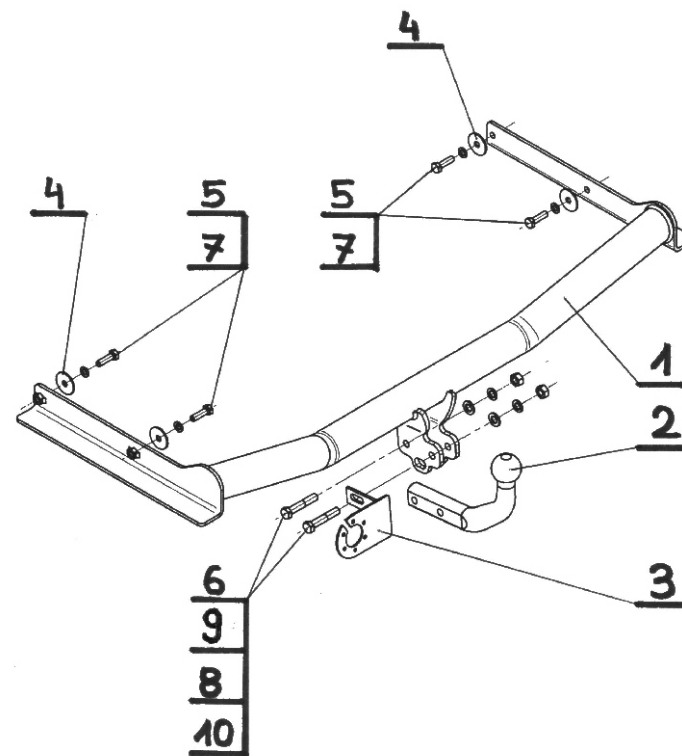
Obeying this instruction assures correct montage and the tow bar operating in a VW Golf III Kombi.

After assembling of the tow bar **V-054** 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 improper usage manufacturer **do not take responsibility** for arised damages.

MONTAGE DIAGRAM:



NOTE:

Bunch of wires is not included (in total price).

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