

TOW BAR A-079

AUDI A4 (4D) (11/1994 - 11/2000r.)

AUDI A4 Avant (12/1995 - 11/2001r.)

FITTING AND OPERATION MANUAL.

Cat. No.A-079

DESTINATION

Tow bar **A-079** for a **Audi A4 (4D/Avant)** 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 **A-079** 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 **A-079** has a rating plate describing correct and safe loads of the hook:

Typ: A-079	The tow bar for Audi A4 (4D/Avant)
A50-X	Tow bar class (compressing device)
e20	Tow bar certification of approval number
0304-00	Teoretical related force working on a ball hook
D = 10,1 kN	Max permissible vertical load of the hook ball
S = 75 kg	Max permissible load of towing trailer
R = 1800 kg	

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 **A-079** for **Audi A4 (4D/Avant)** is made up of the following elements:

1. Tow bar's body	- 1 piece	7. Bolt M12x100	- 2 pieces
2. Electrical socket plate	- 1 piece	8. Spring washer Ø10,2	- 4 pieces
3. Tow ball	- 1 piece	9.Spring washer Ø12,2	- 2 pieces
4. Distance insert	- 2 pieces	10.Flat washer Ø13,0	- 2 pieces
5. Special washer Ø40/Ø10,5x2,5	- 6 pieces	11.Nut M10	- 2 pieces
6. Bolt M10x100	- 4 pieces	12.Nut M12	- 2 pieces

Follow the general directions in order to fit **A-079** tow bar properly

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

2.Take the tow bar to pieces.

3.Remove the boot cover.

4. Remove back bumper and then remove the right and left bumper supports.

5. Put 1 into bumper and screw together with M8. Mark the cutting surface and then cut it off together.

6. Attach the bumper to 1 using M8.

7.Put 1 together with attached bumper inside the railway chassis and then from the bumper side screw using 6 and 5 and 8 and 11.

8. Attach 3 to 1 together with 4 and 2 using 7, 10, 9 and 12.

9.Check if all bolts and nuts are correctly tightened.

CAUTION:

There is not insert the bumper's strengthening back to the longitudinals.

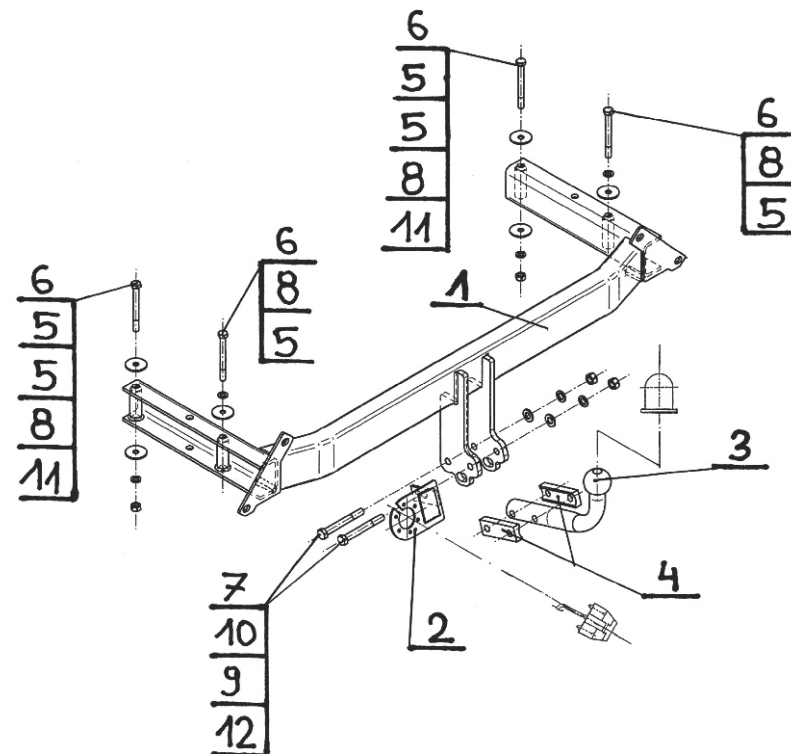
Obeying this instruction assures correct montage and the tow bar operating in a Audi A4 (4D/Avant)

After assembling of the tow bar **A-079** 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).