

# TOW BAR F-226 FORD Fiesta (3/5D) (02/1996 - 03/2002 r.) FITTING AND OPERATION MANUAL.

Cat. No.F-226

## DESTINATION

Tow bar F-226 for a Ford Fiesta (3/5D) 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 F-226 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 F-226 has a rating plate describing correct and safe loads of the hook:

Typ: <b>F-226</b>	The tow bar for <b>Ford Fiesta (3/5D)</b>
<b>A50-X</b>	Tow bar class (compressing device)
<b>e20 0490-00</b>	Tow bar certification of approval number
<b>D = 6,0 kN</b>	Theoretical related force working on a ball hook
<b>S = 50 kg</b>	Max permissible vertical load of the hook ball
<b>R = 950 kg</b>	Max permissible load of towing trailer

## 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/s<sup>2</sup>)

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 F-226 for Ford Fiesta (3/5D) is made up of the following elements:

- |                                  |            |                       |            |
|----------------------------------|------------|-----------------------|------------|
| 1. Tow bar mainframe             | - 1 piece  | 6. Bolt M12x30        | - 4 pieces |
| 2. Tow ball with support         | - 1 piece  | 7. Bolt M12x80        | - 4 pieces |
| 3. Electrical plate              | - 1 piece  | 8. Spring washer 12,2 | - 8 pieces |
| 4. Flat bar                      | - 2 pieces | 9. Nut M12            | - 4 pieces |
| 5. Distance sleeve 24,5/ 12,5x50 | - 4 pieces |                       |            |

Follow the general directions in order to fit F-226 towbar properly:

- Rear bumper cutting is not required (undercut: width 150 mm, length 55 mm).
- Dismantle the tow bar into kit-form elements.
- Take the spare wheel and silencer hanger off, then do the undercut of the silencer shield. The cross beam of (1) cannot be supported on the shield.

- From the trunk side find and remove prebuilt hole plugs, two pcs. on each side.
- Insert 4 pcs. of (5) from the inner side of the trunk into factory-made holes.
- From the inner side of the trunk put (7) together with (4) through previously inserted (5).
- Put (1) from the bottom of the chassis side members and attach using (9), (8), except the right rear bolt (next to the silencer hanger) where we place the silencer hanger and then screw.
- Replace the spare wheel.
- Mark the place and size of the undercut in the bottom side of the silencer, then do the cutting.
- Attach (2) to (1) using (6), (8), add (3) on the left side of (2) at the same time.
- Check if all fixing bolts and nuts are screwed hard enough.

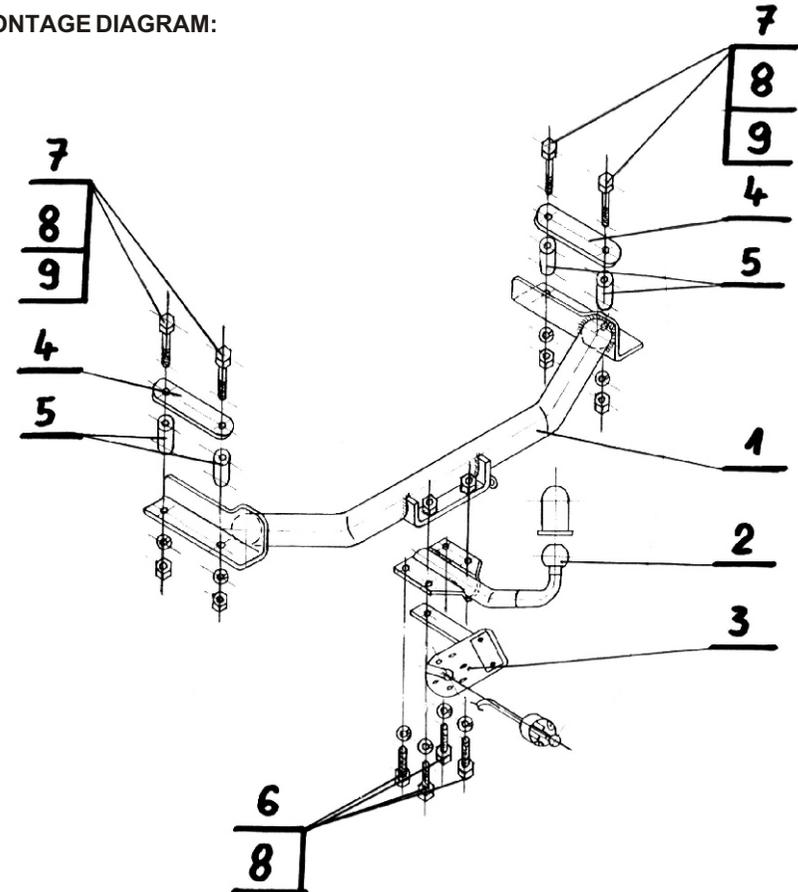
**Obeying this instruction assures correct montage and the tow bar operating in a Ford Fiesta (3/5D).**

After assembling of the tow bar F-226 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).