

#### DESTINATION

Tow bar **C-027** for a **Citroen C5 (Wagon)** 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 **C-027** 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 ( $M_0$ ). Torque values are given below:

M8	-	25 (Nm)	M12	-	85 (Nm)
M10	-	50 (Nm)	M16	-	200 (Nm)

#### OPERATION CONDITIONS

The tow bar **C-027** has a rating plate describing correct and safe loads of the hook:

Typ: **C-027**  
**A50-X**  
**e20** **0159-00**  
**D** = 10,2 kN  
**S** = 85 kg  
**R** = 2000 kg

The tow bar for **Citroen C5 (Wagon)**  
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

**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  $9,81 \text{ m/s}^2$ )

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 **C-027** for **Citroen C5 (Wagon)** is made up of the following elements:

1. Towbar mainframe	- 1 piece	7. Bolt M12x35	- 4 pieces
2. Tow ball	- 1 piece	8. Bolt M12x65	- 2 pieces
3. Electrical socket plate	- 1 piece	9. Flat washer 13,0	- 2 pieces
4. Righth suport	- 1 piece	10.Spring washer 10,2	- 4 pieces
5. Left support	- 1 piece	11.Spring washer 12,2	- 6 pieces
6. Bolt M10x30	- 4 pieces	12.Nut M12	- 4 pieces

Follow the general directions in order to fit **C-027** tow bar properly:

- 1.Rear bumper cutting and dismantling is not required.
- 2.Dismantle the tow bar into kit-form elements.
- 3.Unscrew a plastic (spoiler) from the bottom of a bumper (will not be mounted again).

- 4.Screw (4) and (5) from the bottom of longitudinal stringers (factory-made nuts in longitudinal stringers) using (6) and (10).
- 5.Insert (1) between mounted (4) and (5), screw using (7), (11) and (12).
- 6.Mount (2) into (1) using (8), (11), (9), (12), screwing (3) on the left side of (2) at the same time.
- 7.Check if all screws and nuts are correctly tightened.

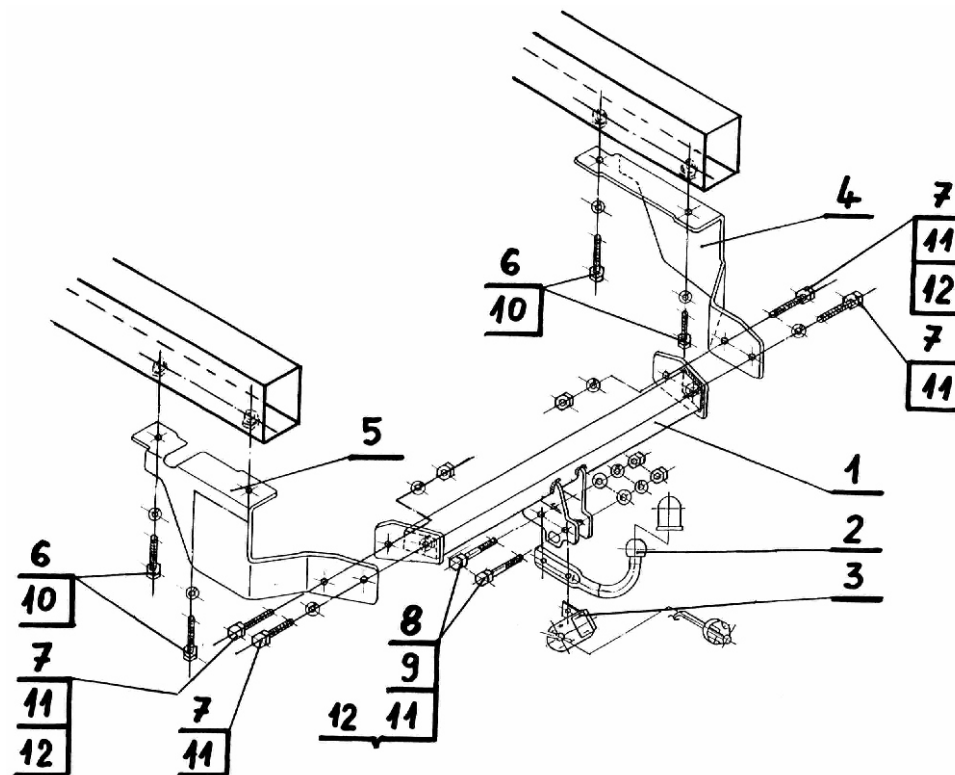
**Obeying this instruction assures correct montage and the tow bar operating in a Citroen C5 (Wagon).**

After assembling of the tow bar **C-027** 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).