

Nr kat. C-263

TOW BAR FOR Chevrolet Cruze (5D)

(2011 -)

FITTING AND OPERATION MANUAL

Cat. No.C-263

DESTINATION

Tow bar **C-263** 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-263** 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 **C-263** has a rating plate describing correct and safe loads of the hook:

Typ: C-263	Tow bar catalogue number.
A50-X	Tow bar class (compressing device)
e20 00-1741	Tow bar certification of approval number
D = 8,6 kN	Theoretical related force working on a ball hook
S = 75 kg	Max permissible vertical load of the hook ball
R = 1500 kg	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/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 **C-263** is made up of the following elements:

1. Towbar mainframe	- 1 piece	9. Screw M12x25	- 4 pieces
2. Tow ball (ACS-3008)	- 1 piece	10. Screw M12x30	- 1 piece
3. Tow ball socket (ACS)	- 1 piece	11. Spring washer Ø10,2	- 8 pieces
4. Electrical socket plate	- 1 piece	12. Spring washer Ø12,2	- 5 pieces
5. Special washer Ø30/Ø10,5x3	- 4 pieces	13. Flat washer Ø13,0	- 5 pieces
6. Special washer Ø30/Ø10,5x5	- 2 pieces	14. Nut M10	- 4 pieces
7. Special washer Ø35/Ø10,5x6	- 2 pieces	15. Nut M12	- 1 piece
8. Screw M10x30	- 4 pieces		

Please follow the installation fitting instruction below in order to ensure correct installation of the towbar:

1. Rear bumper cutting and removing is required.
2. Remove the rear bumper with it metal reinforcement (reinforcement will not be re-used).
3. Put the angle bars of the towbar mainframe (1) to the inside of stringers, attach the supports to the rear belt on protruding pins and screw on according to the schema using: the nuts M10 (14), spring washers Ø10,2 (11), special washers Ø30/Ø10,5x3 (5) and screw on from the bottom with the stringers using bolts M10x30 (8) with special washers Ø30/Ø10,5x5 (6) and Ø35/Ø10,5x6 (7) spring washers Ø10,2 (11).
4. Attach the tow ball socket (3) to the towbar mainframe (1) using bolts M12x25 (9)- 4 pcs, and electrical plate (4) using bolt M12x30 (10) with spring washers Ø12,2 (12), round washers Ø13,0 (13) and nuts M12 (15) (according to the scheme).
5. Make a cutout in the bumper according to the drawing fig. (1).
6. Install the rear bumper.
7. Put the ball (2) to the socket (3) in accordance with attached instruction.

Caution:

Different types of (2) may be attached to the (1) only if:

1. The adapted tow has its own information label with homologation number
2. D and S values are equal or higher than (1) values.
3. Tow ball centre-point is in accordance with the drawing

Obeying this instruction assures correct montage and the C-263 tow bar operating.

After assembling of the tow bar **C-263** you have to get entry in cars registration book.

CAUTION:

Check if all bolts and nuts are correctly tightened after 1000km. Keep tow ball clean, grease and cased. 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:

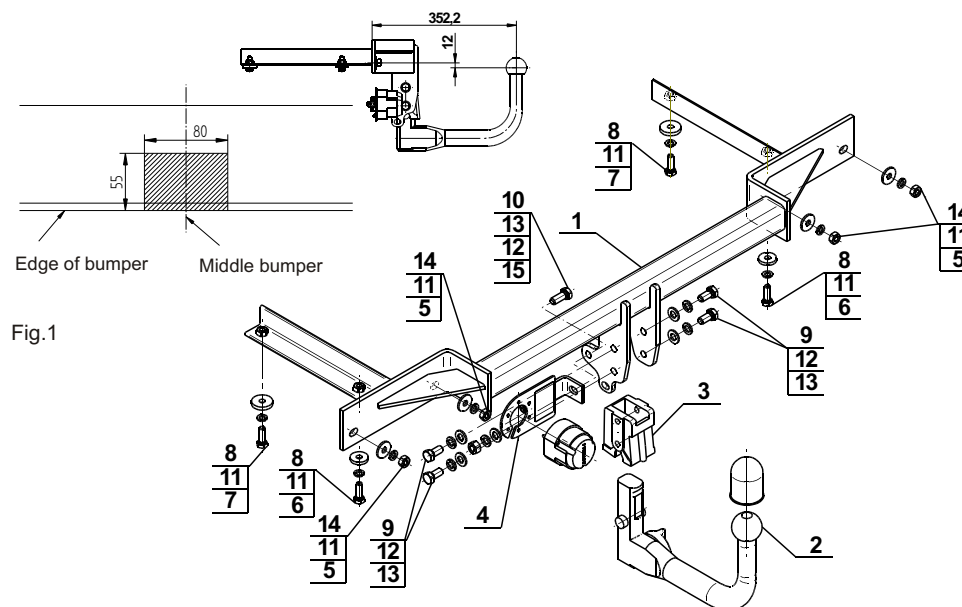


Fig.1

NOTE:

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