

TOW BAR FOR Chevrolet Aveo (4D)

(2006 - 2011)

FITTING AND OPERATION MANUAL

Cat. No.C-258

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DESTINATION

Tow bar **C-258** 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-258 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-258 has a rating plate describing correct and safe loads of the hook:

D = 6,7 kN S = 75 kg	Tow bar catalogue number. 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
S = 75 kg R = 1200 kg	Max permissible vertical load of the hook ball Max permissible load of towing trailer

D - force is calculated using the following formula:



T-technically permissible maximum mass in tonnes of the towing vehicale (also towning tractors) including, if neccessary, 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-258 is made up of the following elements:

 Towbar mainframe 	- 1 piece	11. Sleeve Ø25/Ø15x79	- 1 piece
2. Tow ball (ACS-2001)	- 1 piece	12. Bolt M10x120	- 4 pieces
Tow ball socket (ACS)	- 1 piece	13. Bolt M12x25	- 4 pieces
Electrical socket	- 1 piece	14. Bolt M12x35	- 4 pieces
Right support	- 1 piece	15. Spring washer Ø10,2	- 4 pieces
Left support	- 1 piece	16. Spring washer Ø12,2	- 8 pieces
Right strengthening	- 1 piece	17. Round washer Ø10,5	 4 pieces
Left strengthening	- 1 piece	18. Round washer Ø13,0	 8 pieces
9. Sleeve Ø25/Ø15x69	- 1 piece	19. Nut M10	 4 pieces
10. Sleeve Ø25/Ø15x77	 2 pieces 	20. Nut M12	 2 pieces

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

- 1. Installation does not require removal of the rear bumper of the car while require its cutting.
- 2. Empty the trunk floor (remove the back panels and loosen the side panels).

- $3.\,From\,the\,bottom\,of\,the\,car,\,unscrew\,the\,filter.$
- 4. Remove the towing handle (it will not be reused).
- 5. Make an undercut from the bottom in the middle part of the bumper (~55x85 mm).
- 6. Drill the holes \emptyset 11 in the trunk floor in point Athrough the of in the bottom of the stringer.
- $7.\,Place\,in\,the\,trunk\,the\,left\,strengthening\,(8)\,on\,the\,hole\,A\,and\,drill\,the\,hole\,\varnothing 11\,point\,B\,(fig.\,1).$
- 8. Place in the trunk the right strengthening (7) and drill the holes Ø11 in points C, D (fig. 2).
- 9. Enlarge the holes (A, B, C, D) just from the side of the trunk to Ø30.
- 10. Remove the allowances of the damping mass in contact place with elements of towbar.
- 11. From the side of the trunk slide the sleeves (9, 10, 11) according to the schema into the holes A, B, C, D, attach the strengthening (7, 8) with three bolts M10x120 (12).
- 12. Attach the right support (5) to the bottom of the sides of the stringers and screw in point C using bolts M10x120 (12) with round washers Ø10,5 (17), spring washer Ø10,2 (15) and nuts M10 (19). Screw in point D using bolt M10x120 (12) with round washers Ø10,5 (17), spring washer Ø10,2 (15) and nuts M10 (19).
- 13. Attach the left support (6) to the bottom side of the left stringers and screw using bolts M10x120 (12) with round washers Ø10,5 (17), spring washers Ø10,2 (15) and nuts M10 (19).
- 14. Between supports (5, 6) slide the towbar mainframe (1) and screw using bolts M12x35 (14) with round washers Ø13,0 (18), spring washers Ø12,2 (16) and nuts M12 (20).
- 15. Tighten the tow ball socket (3) and electrical plate (4) to the towbar mainframe (1) using bolts M12x25 (13) with round washers Ø13.0 (18) and spring washers Ø12.2 (16).
- 16. Screw on the filter and install all removed elements.
- 17. Plug the tow ball (2) into the socket (3) following the attached instructions.

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 aaccordance with the drawing

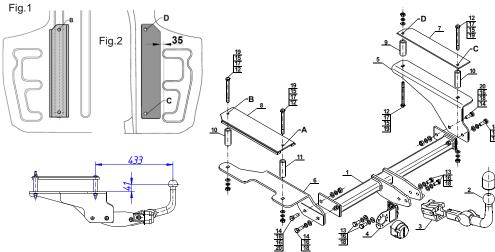
Obeying this instruction assures correct montage and the C-258 tow bar operating.

After assembling of the tow bar C-258 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 unproper 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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30.10.2015.