



DIN EN ISO 9001
Zertifikat Nr. 71 100 D 366

Cat. No.H-030

DESTINATION

Tow bar **H-030** for a **Honda Civic (5D) / Rover R 400** 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 **H-030** 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 **H-030** has a rating plate describing correct and safe loads of the hook:

Typ: H-030	The tow bar for Honda Civic (5D) / Rover R 400
A50-X	Tow bar class (compressing device)
e20 0183-00	Tow bar certification of approval number
D = 6,9 kN	Teoretical related force working on a ball hook
S = 50 kg	Max permissible vertical load of the hook ball
R = 1200 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 **H-030** for **Honda Civic (5D) / Rover R 400** is made up of the following elements:

1. Towbar mainframe	- 1 piece	9. Bolt M12x70	- 2 pieces
2. Tow ball	- 1 piece	10. Bolt M16x40	- 4 pieces
3. Electrical socket plate	- 1 piece	11. Spring washer 10,2	- 2 pieces
4. Right support	- 1 piece	12. Spring washer 12,2	- 6 pieces
5. Left support	- 1 piece	13. Spring washer 16,3	- 4 pieces
6. Special washer 60/ 16,5x2,5	- 4 pieces	14. Flat washer 10,5	- 2 pieces
7. Bolt M10x30	- 2 pieces	15. Flat washer 13,0	- 2 pieces
8. Bolt M12x30	- 4 pieces	16. Nut M10	- 2 pieces
		17. Nut M12	- 6 pieces

Follow the general directions in order to fit **H-030** tow bar properly:

1. Rear bum cutting is **required** (two grooves for support metal sheets to mount tow ball).
2. Dismantle the towbar into kit form elements.

3. Dismantle rear bumper then remove hole plugs from longitudinal chassis elements.
4. Place supports (4) and (5) into longitudinal chassis elements, then screw all parts down from bottom using (10), (6) and (13).
5. Place (1) between (4) and (5), screw these elements using (8), (12) and (17). Then screw this unit to the back strip (using original openings) using (7), (14) (placed form inside of the boot), and (16), (11) (placed between pipe and support holder on the (1)).
6. Place rear bumper, mark grooves then proceed cutting.
7. Instal rear bumper.
8. Place (2) into (1) using (9), (15), (12), (17), screwing (3) on the left side of (2) at the same time.
9. Check if all fixing bolts and nuts are screwed hard enough.

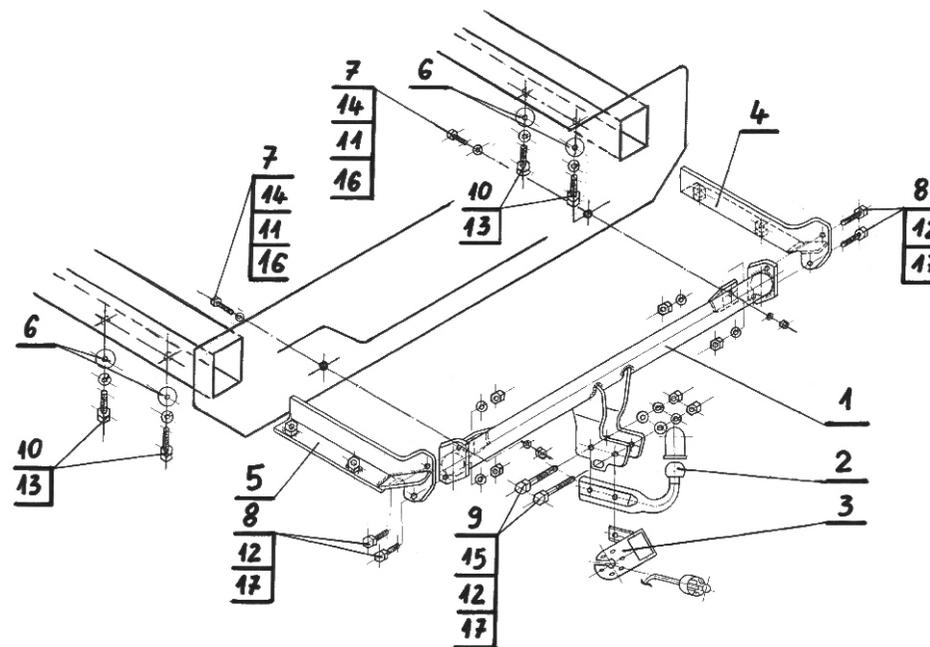
Obeying this instruction assures correct montage and the tow bar operating in a Honda Civic (5D) / Rover R 400.

After assembling of the tow bar **H-030** 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).