

TOWBAR FOR Hyundai Tucson (2015 - →) Kia Sportage IV (also GT Line) (2016 - →) FITTING AND OPERATION MANUAL

Cat. No.H-280

DESTINATION

Before the towbar assembly please refer to the manual and vehicle registration document whether car is adjusted for towing a trailer.

Towbar H-280 is designed for towing a trailer. This towbar has a current certification of approval authorizing the product with E20 certification sign.

FITTING CONDITIONS

Towbar H-280 can be used and operated in a car with proper technical conditions of body elements. Those parts cannot be mechanically damaged. Remove the insulating mass of the sealing from surface mounting. The towbar has to be installed and operated in a car according to this instruction. All bolts and nuts in towbar have to be screwed down with proper torque (Mo). Torque values are given below :

M6	-	10 (Nm)	M10	-	50 (Nm)
M8	-	25 (Nm)	M12	-	85 (Nm)

OPERATION CONDITIONS

The towbar H-280 has a rating plate describing correct and safe loads of the hook :

Typ: H-280	Towbar catalogue number
A50-X	Towbar class (compressing device)
(E20) 55R-01 4601	Towbar certification of approval number
D = 11,0 kN	Theoretical related force working on a towbar
S = 90 kg	Max permissible vertical load of the tow ball
R = 2200 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 towbar 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 towbar. If screws are eased, it is necessary to screw them down.

FITTING

The tow bar H-280 is made up of the following elements :

- | | | | |
|-------------------------------|------------|-------------------------|------------|
| 1. Towbar mainframe | - 1 piece | 10. Bolt M10x1,25x40 | - 4 pieces |
| 2. Tow ball | - 1 piece | 11. Bolt M12x40 | - 4 pieces |
| 3. Electrical socket plate | - 1 piece | 12. Bolt M12x65 | - 2 pieces |
| 4. Right support | - 1 piece | 13. Spring washer Ø10,2 | - 8 pieces |
| 5. Left support | - 1 piece | 14. Spring washer Ø12,2 | - 6 pieces |
| 6. Right holder | - 1 piece | 15. Round washer Ø10,5 | - 4 pieces |
| 7. Left holder | - 1 piece | 16. Round washer Ø13,0 | - 6 pieces |
| 8. Special washer Ø30/Ø10,5x3 | - 4 pieces | 17. Nut M12 | - 4 pieces |
| 9. Bolt M10x1,25x35 | - 4 pieces | | |

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