

(1998 - → r.)

### FITTING AND OPERATION MANUAL.



DIN EN ISO 9001  
Zertifikat Nr. 71 100 D 366

**Cat. No. S-410**

#### DESTINATION

Tow bar S-410 for a Suzuki Jimmy is designed for towing a trailer. This ball hook has a current certification of approval authorizing the product with e4 certification sign.

#### FITTING CONDITIONS

Tow bar S-410 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<sub>0</sub>). Torque values are given below:

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

#### OPERATION CONDITIONS

The tow bar S-410 has a rating plate describing correct and safe loads of the hook:

Typ: S-410	The tow bar for Suzuki Jimmy
A50-X	Tow bar class (compressing device)
00 - 3381	Tow bar certification of approval number
D = 6,7 kN	Theoretical related force working on a ball hook
S = 75 kg	Max permissible vertical load of the hook ball
R = 1300 kg	Max permissible load of towing trailer

D - force is calculated using the following formula:

$$D = g \times \frac{T \times R}{T + R}$$

T - technically permissible maximum mass in tonnes of the towing vehicle (also towing tractors) including, if necessary, the vertical load of a central 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/s<sup>2</sup>)

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 S-410 for Suzuki Jimmy is made up of elements as follows:

- |                                 |            |                         |            |
|---------------------------------|------------|-------------------------|------------|
| 1. Twobar mainframe             | - 1 piece  | 9. Bolt M12x40          | - 5 pieces |
| 2. Rectangular washer with nut  | - 3 pieces | 10. Bolt M12x65         | - 2 pieces |
| 3. Special washer set           | - 2 pieces | 11. Flat washer Ø10,5   | - 1 piece  |
| 4. Silence washer               | - 1 piece  | 12. Flat washer Ø13,0   | - 2 pieces |
| 5. Electrical socket plate      | - 1 piece  | 13. Spring washer Ø10,2 | - 1 piece  |
| 6. Tow ball                     | - 1 piece  | 14. Spring washer Ø12,2 | - 7 pieces |
| 7. Special washer Ø40/Ø12,5x2 5 | - 5 pieces | 15. Nut M10             | - 1 piece  |
| 8. Distance sleeve              | - 1 piece  | 16. Nut M12             | - 2 pieces |

Follow the general directions in order to fit S-410 tow bar properly:

1. Rear bumpers is not required.
2. Unscrew the factory made towing eye from under of bumper.
3. Place (1) to chassis side member in way that holes A and B, fit to factory holes on chassis side members, and next screw (1) with chassis side member using (3), (9), (14) and (7).
4. Through the holes in (1) marked as C, D, E drill factory made holes using drill Ø13, and next screw (1) with (2), (8) using (9), (14) and (7).
5. On right side of (1) screw (4) using (11), (13) and (15).
6. To (1) screw (6) with (5) using (10), (12), (14) and (16).
7. Check if all screws and nuts are correctly tightened.

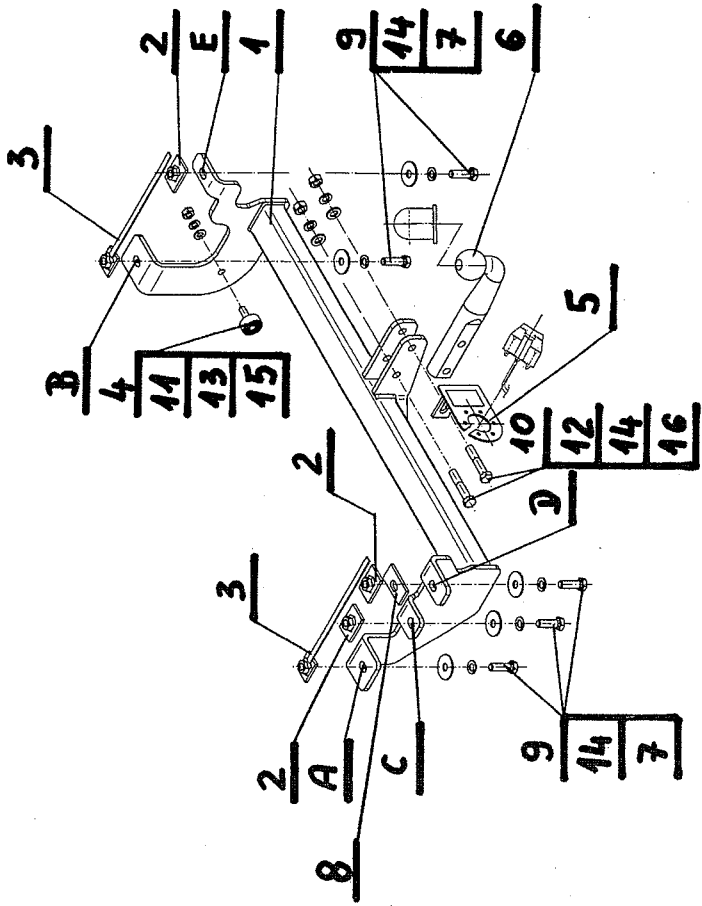
Obeying this instruction assures correct montage and the tow bar operating in a Suzuki Jimmy.

After assembling of the tow bar S-410 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 improper usage manufacturer do not take responsibility for atised damages.

#### MONTAGE DIAGRAM:



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