

# OMNI-STEP SLIDE OUT 400 & 700

Prod.nr.20 2245 00, 20 2275 00



SDA 901-04

3-01-06



Read these instructions carefully. No guarantee will be allowed for wrong installation or use.

In order to meet the EN 1646-1 requirements, when extended, the step should not be higher than 400 mm from the ground and should be between 200 and 300 mm from the next step.

## CONTENT MOUNTING SET

Hex bolts DIN 933 - M8 x 100 .....	4
Washers DIN 125 - M8 .....	8
Safety nuts DIN 985 - M8 .....	4
Switch .....	1
Covering plate .....	1
Screws DIN 7981 - 2,9 x 9,5.....	4
Flat connectors F 4,8 x 0,8 .....	4

## INSTALLATION

### INSTALLATION OF THE STEP

These installation instructions are suggestions only. In order to get the step on the right spot on the vehicle, fix it onto a specially made construction welded or bolted to the chassis. The mounting surface has to be flat in order to obtain a perfect functioning of the step. The rails need to be perfectly parallel.

- Drill 4 holes diam. 9 mm according to the coordinates shown in fig. 1.

- Fix the step (fig. 2).

- Check the operation of the step:

- Keep the purple wire against the positive pole and the orange one against the negative pole of the 12V battery: the OMNISTEP extends.
- Change the polarity (the purple wire against the negative pole and the orange one against the positive pole): the OMNISTEP retracts.

Remark: Cut off the connection when the step is fully extended. DO NOT KEEP THE MOTOR UNDER TENSION FOR LONGER THAN 2 OR 3 SECONDS.

### INSTALLATION OF THE SWITCH S1 (fig. 3)

- Install the switch near to the door.

- Drill a diam. 40 mm hole in the wall.

- Mount the covering plate with 4 screws DIN 7981 - 2,9 x 9,5.

- Place an electric cable 2 x 2,5 mm<sup>2</sup> from the battery to the switch via a 20A fuse in the +conduction. In order to avoid short-circuit, wait before introducing the fuse until the electric connection is completed.

- Pass the motorwires of the OMNISTEP to the switch.

- Provide the wires for the switch with the flat connectors 4,8 F.

- Make the electric connection as shown in figure 3.

- Introduce the fuse into the fuseholder and try operating.

### CONNECTION OF A WARNING LAMP (fig. 3)

A switch (S2), which is pushed when the step is retracted, is incorporated in the step. A warning light, that burns if the step is out by starting the vehicle, can be connected to this switch.

Therefore current is taken:

- a) from the clamp of the electric accessories (position 1) of the key contact or
- b) from the relay which is activated by starting the engine. Look for a clamp which becomes positive.

Connect this clamp over the warning light to the switch wire.

### INSTALLATION OF THE SWITCH S1 WITH AUXILIARY RELAY FOR AUTOMATIC RETRACTION AT START (fig. 4)

The installation of the relay prevents the operation of the step whilst driving so that the installation meets the EMC standards 89/336/EEC.

- Install the switch as described above.

- Fix the relay.

- Provide the wires for the relay with flat connectors 6,3F.

- Make the electric connection as shown in figure 4.

- Put an electrolytic capacitor 2200 microFarad 16 VDC onto the relais coil. This capacitor makes the step retract further, after the current has been disconnected by the Omnistep switch. In this way, the step is retracted until its endstop.

IMPORTANT: Always connect the warning lamp L in order to see if the step is fully retracted and the motorswitch is pushed in. If this switch is not pushed in, the stepmotor remains under tension whilst driving. This will cause a burned motor at last.

## OPERATION

- The OMNISTEP is operated by the lever switch.

- Check if the step is retracted before departure.

## MAINTENANCE

Dirt and frost can prevent the step from operating properly. In this case the rails and moving parts should be cleaned or defrosted.

### IN CASE OF ELECTRIC BREAK DOWN

If the step does not retract by the motor (fig. 5):

- Remove the front plate of the step.

- Remove the connection between the footboard and the arms (with screwdriver and wrench S10).

- Slide out the footboard.

- Reinstall the front plate.

### CURRENT DRAWN

- Working current: 5 A

- Blocking current, when fully extended or retracted: 14 A

## OPTIONS

- **ELECTRONIC Control Box:** Electronic control for activating the step by door. When opening or closing the door, the step is extended or retracts.

- **RELAY** for automatic retraction when starting. The installation of this relay is necessary to meet the EMC standards 89/336/EEC.