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# Electrical Transfer Plate

HURT LIFT

## Assembly Instructions



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Read these instructions carefully before installing the device. Installation can be performed only by workshop that routinely performs similar adaptations for disabled people or it is trained for assembly by our company.

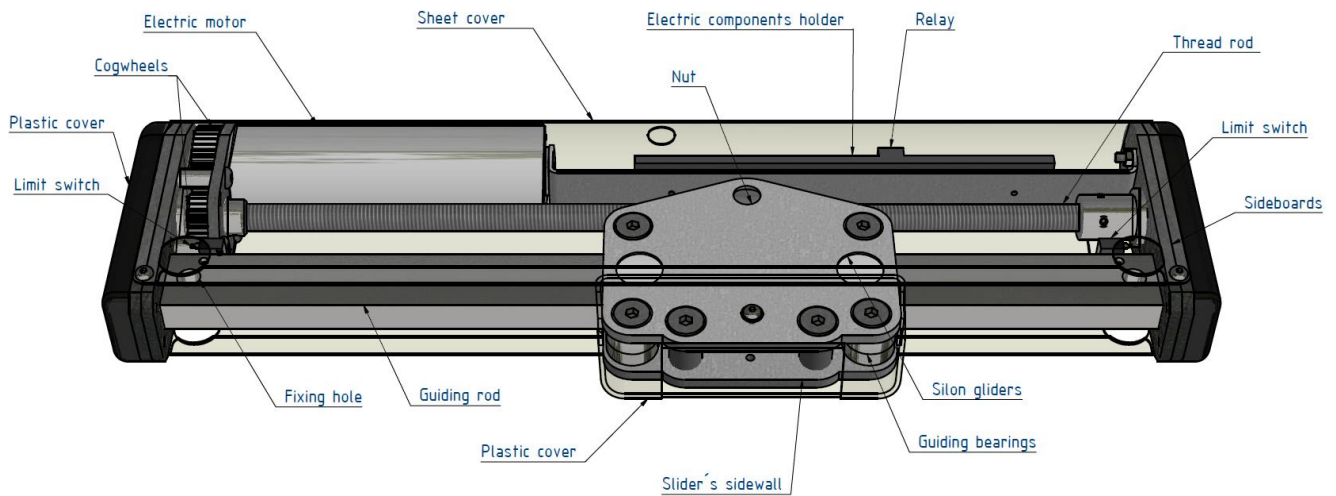
## WAY OF USE

The lift mechanism is placed between the seat and the B pillar of car body. It is used either to lift a person from the wheelchair to the seat above where the seat part is used as a desk or standing up arrangement called "myopat" when the sitting part is used as a rod or shortened plate.

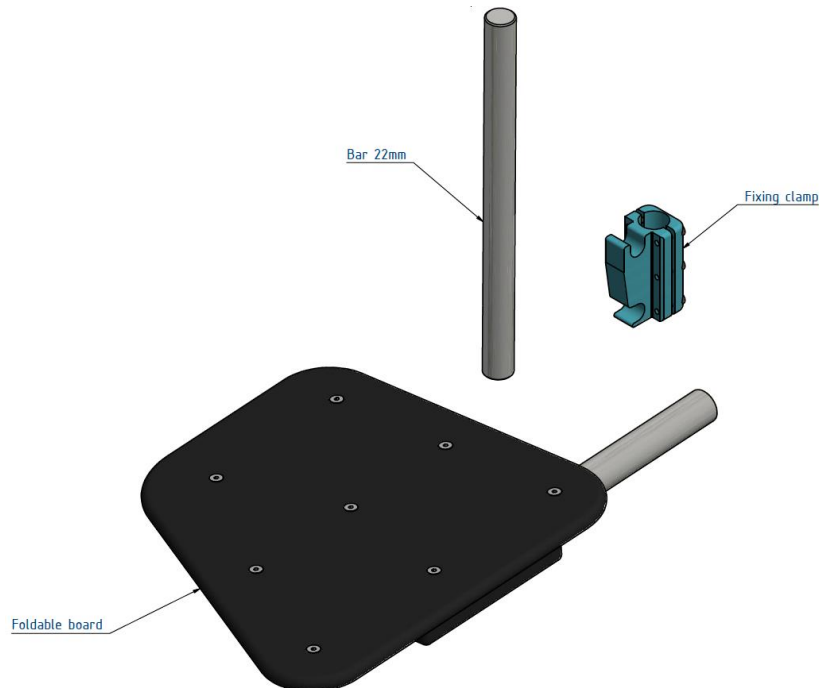


## Scheme of the main components of the lifting mechanism

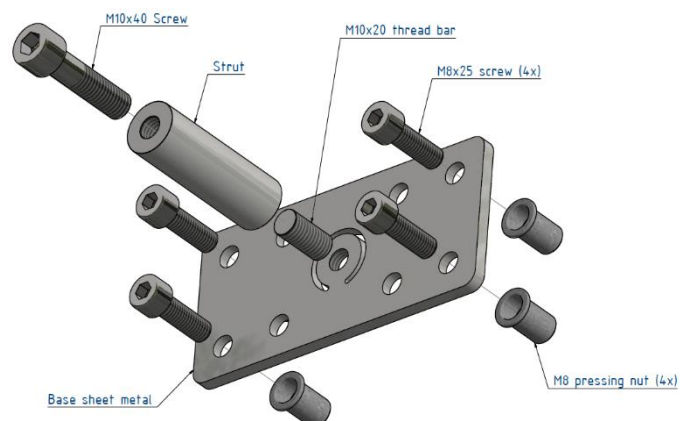
### Lifting mechanism



### Sitting part



### Universal holder





## LOCATION OF THE LIFTING MECHANISM

Before the assembly itself it is necessary to plan the final allocation of the device well and to agree with the customer what purpose of lifting will need and what heights he will require. The basic stroke is 20 cm, the raised version has a stroke of 41 cm. The device must fit between the side post and the seat. Lifting should be parallel to the tilt of the pillar. Attention should also be paid to the location of the lifting mechanism itself, in order to fit the closed door between the seat and the plastic in the lower position.

In case of lack of space, the plastic of the door pillar or the plastic in the door panel (pocket) can also be reduced or removed. The lifting part must be pulled out before closing the door for passive safety reasons.

**TIP:** Instead of the plastic cover of the pillar you can install leatherette, whereby you get more space for the necessary thickness of the equipment, if we don't get it.

Every new vehicle is processed, and we record the attachment of the holders to the body. If the holders for a particular car are processed, we will send them. In other cases we send universal parts for additional adjustment of holders.

*The principle of attaching the device and positioning the guiding rod*



## ATTACHING THE LIFTING MECHANISM

The device is attached to the bottom and top brackets that are attached to the body post by screws or press nuts. If we do not send the prepared brackets to a particular car model, we send the universal bracket set and you should follow the following procedure.

The holders should be shaped to fit under the plastic cover (if you keep it) and follow the shape of the pillar structure. Countersunk screws can be used to fit the holders under the plastic. The seat belt must be completely free to walk around the top bracket. To fasten the lower bracket, the belt reel screw is most commonly used.

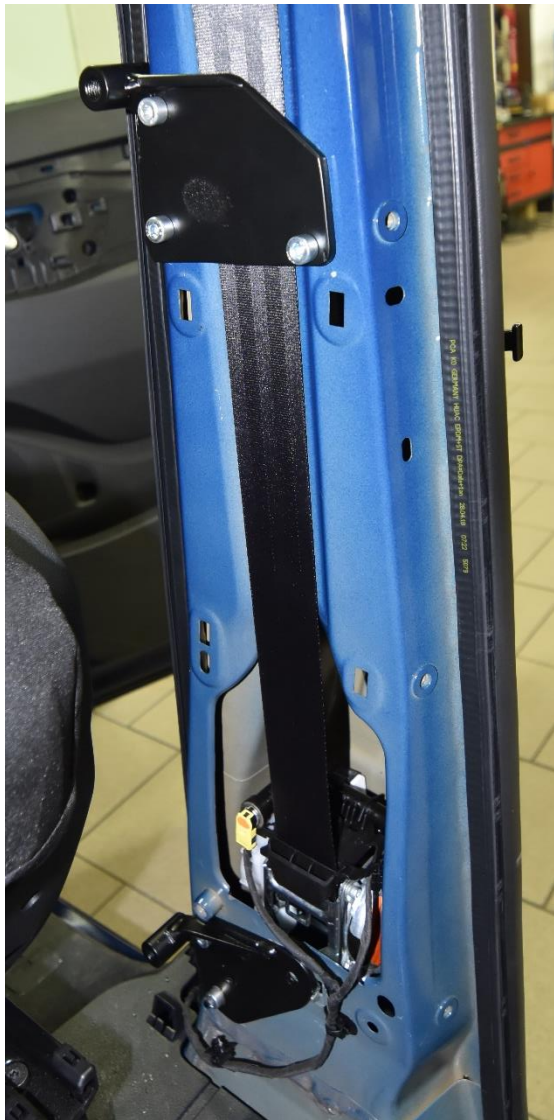
The base sheets of the holders are ready for further modifications - possible tilting of the threaded cylinder (strut) in the center of the plate. The sheet can be further shaped according to the shape of the inner body. Struts are welded to the holders, which are then led through the plastic and hold the mechanism itself. We use a thread cylinder with an internal thread of 10 mm. Determine the length of the struts according to the position of the mechanism and the plastic of the pillar. It is very important to fasten these struts exactly to the guide rod mount. The bolt mountings must be exactly aligned so that the guide rod does not bend anywhere, and the lifting is perfect. The small deflection of the guide rod also affects the helix and lifting may not work accurately.

The lifting mechanism can be attached to the pillar. Modify the plastic, drill holes in it to lead the struts and the cable hole. Alternatively, use the leatherette mentioned above to seal the pillar instead of the plastic, which you grasp behind the door seal. For better appearance, the cover sheet can be painted in the color of the interior.

### Examples of installation

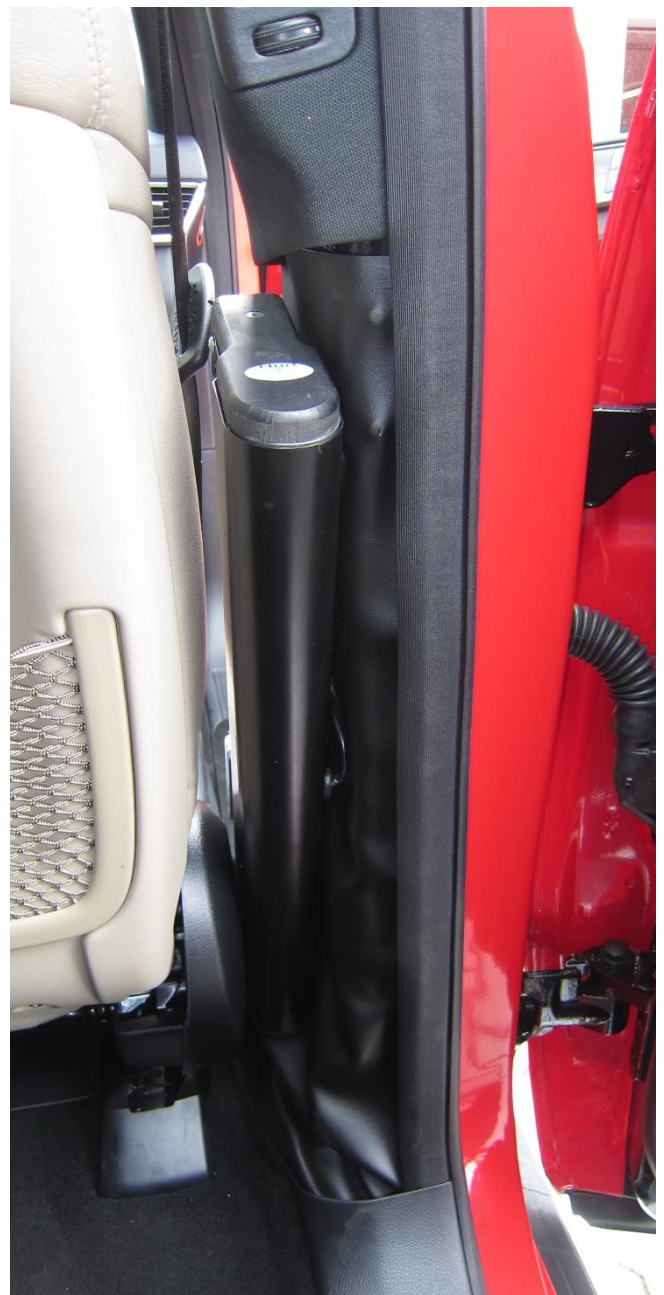
#### Examples of Brackets - Shapes and Mounting







### Examples of fitting the plastic area





## SITTING PART

Now we prepare the sitting part of the device. Shape the carrying seat bar to give the required height according to the customer's needs in the lower or upper position. The height of the wheelchair is approx. 50–55 cm above the ground. The bar can be bent as needed. In the lower position, the plastic of the door and the seat should be avoided. Weld the bar of the sitting part to the bottom of the carrying seat bar, which must be horizontal. Attach the set to an aluminum clamp that fits into the movable part of the lifting mechanism. Inspire yourself with attached photos below.

In case of using the plate, we deliver the folding mechanism together with the plate, which can be chosen from two basic dimensions, or the board can be made to order.

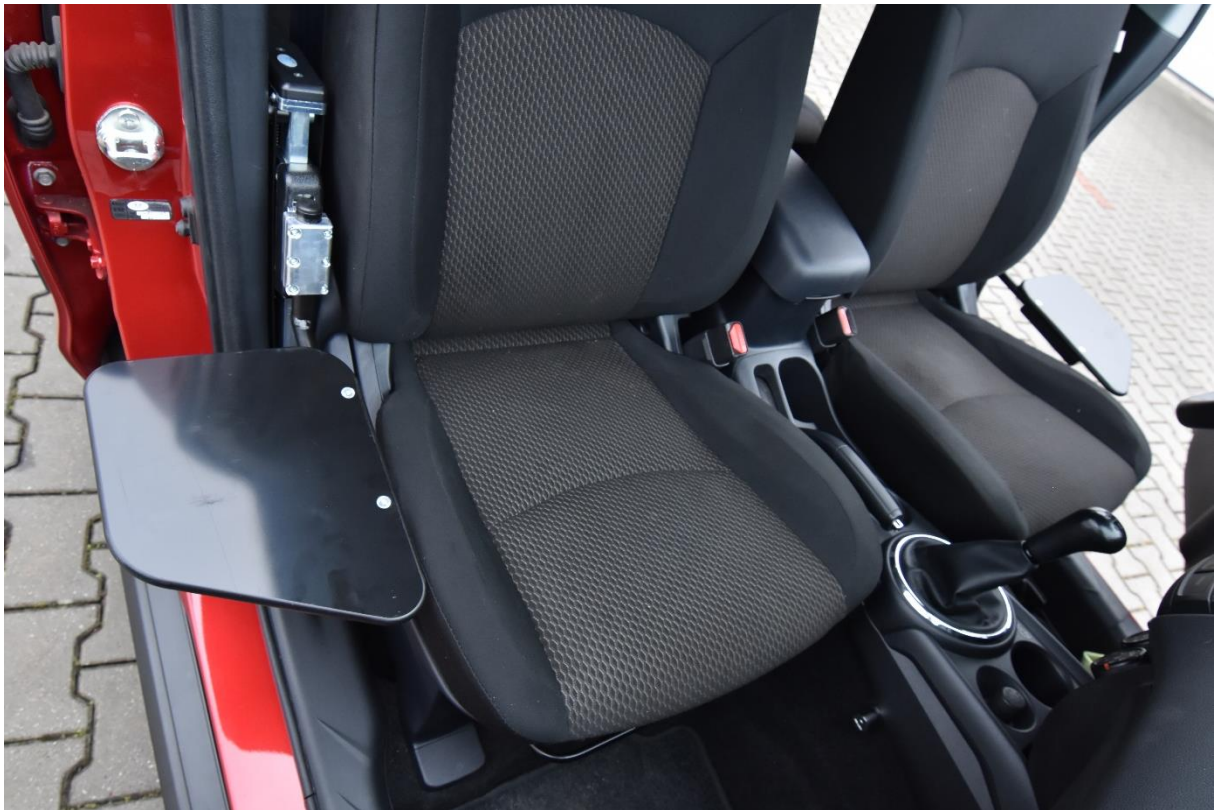
In case of using a rod - wrap it with plastic foam and then with leatherette. At the end make a passage and pull it with a string.

### Examples of sitting parts

*Ssang Yong Rexton – Large desk*



*Mitsubishi ASX – Small desk, both sides*



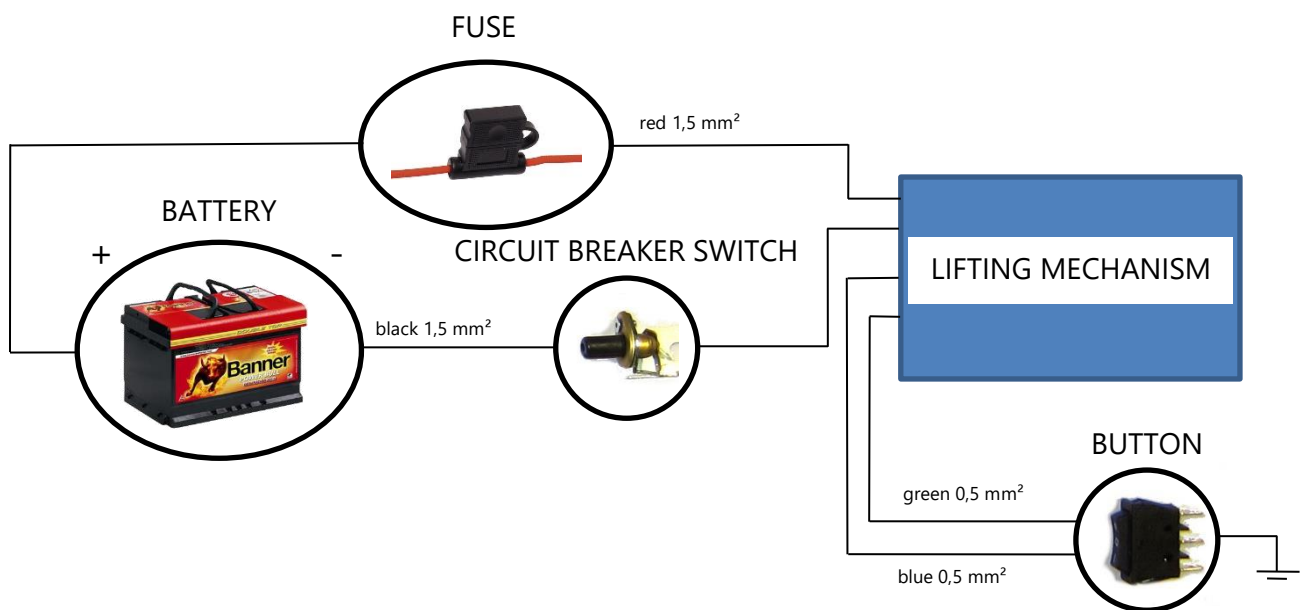
*BMW X6 – Large desk*



## CONNECTION OF ELECTRICITY

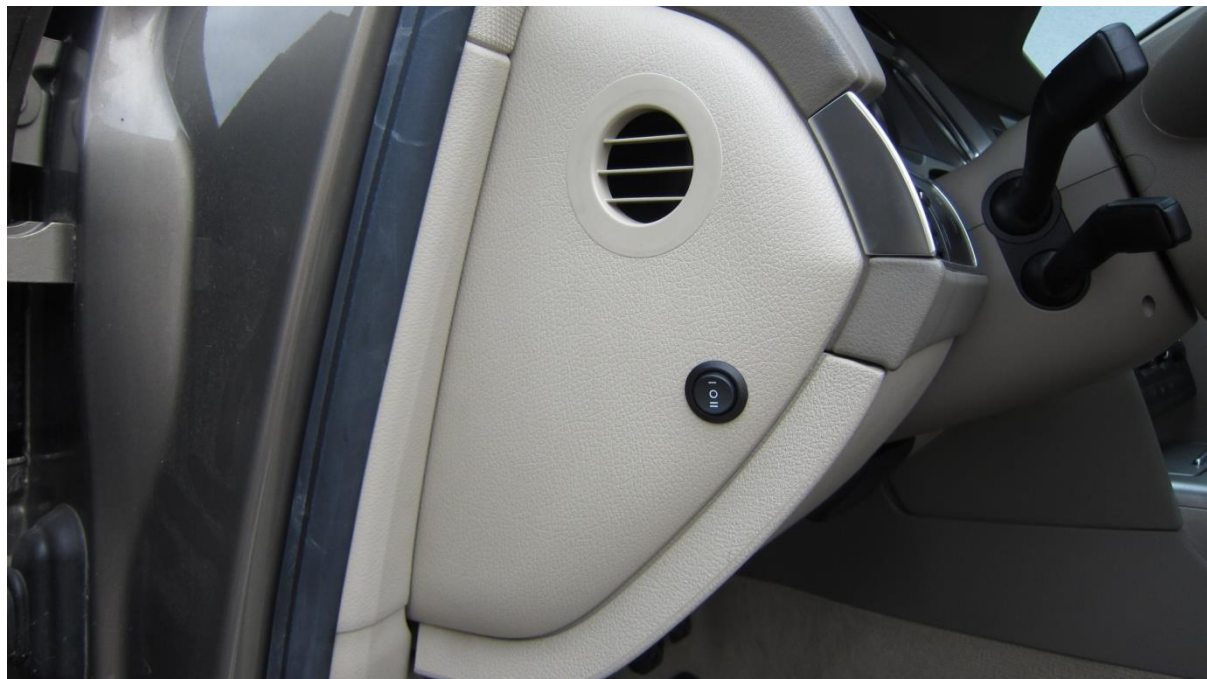
There are 4 wires from the device cable. The black cable is the body minus. Red cable is +, leads directly to the battery where a fuse is placed on the cable just before it is attached to the battery. The other two cables lead to the controller. Switching voltage is minus. As a rule, the button is placed on the dashboard plastic side, which is hidden when the door is closed. This location is very convenient as the user has a button on hand while lifting and when the door is closed, the device is impossible to use. The button can also be placed elsewhere on the dashboard (e.g., the light control under the steering wheel) or the door itself, but then the circuit breaker switch must be mounted to disconnect the power button when the door is closed. A less common option is to use a wired controller or remote control.

### Electric Scheme





*The button on the place usually used by driver*



*The button on the place usually used by accompanying person (or on the B pillar)*



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