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Lift up Device to Transfer a Person

Installation 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

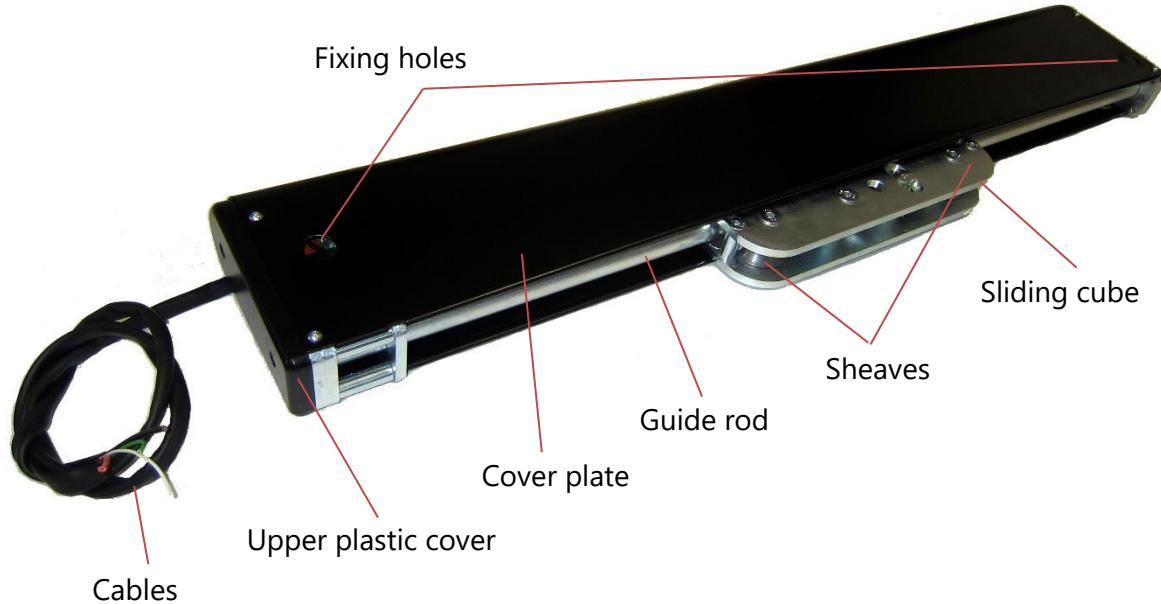
Lift up device to transfer a person into vehicle facilitates assistance for disabled to get in. We recommend it especially for quadriplegics with harder disability or muscle dysfunction who have problems when getting into the car even with help of accompanying persons. It is a completely revolutionary solution of our own production. The device consists of a lifting mechanism, arm with joints and a special sling (cushion).

In some cases, you can use this solution to load a person into the second row of seats with a conventional door opening. Alternatively, you can load a person into a van both to the passenger seat and the second row of seats.



Scheme of the Main Components of the Lifting Mechanism

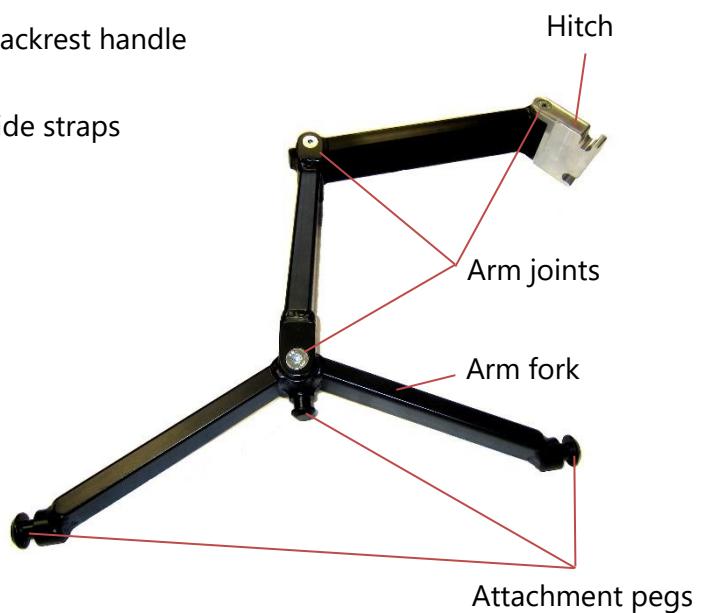
Lifting mechanism



Sling



Arm



We also supply the upper and lower universal brackets.

Placement Principles

Before installation itself, it should be clearly laid out the location of the device. Communicate with the customer to agree to which car he needs the lift and how high end positions he requires. Basic lift is about 45 cm, on request we can manufacture even higher stroke. Lifting mechanism must fit between the seat and the side pillar. Lifting should lead parallel to the inclination of the column.

Tip: Instead of cover plastic part of the column you can install leatherette which you mainly gain more space for required thickness of the device.

Attaching the Lifting Mechanism

The lifting mechanism is fastened to the upper and lower bracket which are attached to the body pillar by screws or crimp nuts. Brackets must be shaped so that to fit below plastic cover (if you keep it) and copy the shape of the pillar design. To fit the brackets under the plastic covers, you can help with countersunk screws. The seatbelt must freely walk around the upper bracket. To attach the lower bracket, it is usually used a bolt fixing the belt retractor. Weld struts to brackets, which are then led through the plastic cover and holds the lifting mechanism itself. We use 19 mm hexagon with 10 mm internal thread. Determine length of the struts by location of the mechanism and by plastic part of the pillar. It is very important to attach these struts exactly to the guide rod. Fastening the screws must be accurately aligned to avoid buckle of the guide rod and lifting so went flawlessly.

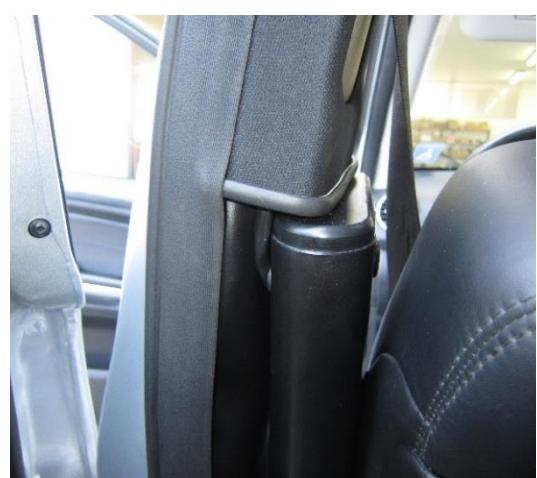
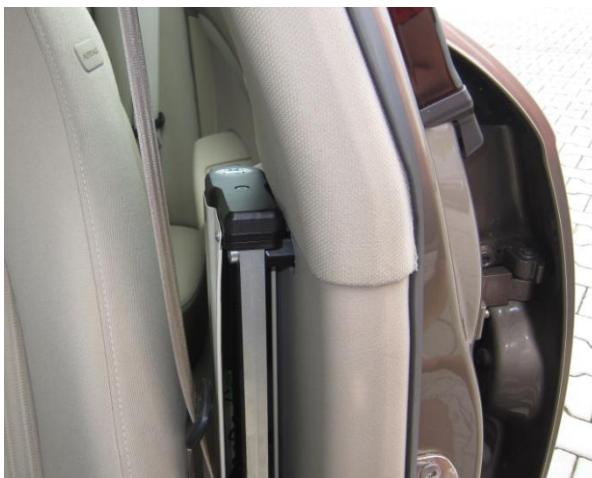
Attach the lifting mechanism to the pillar. In advance, drill holes for take out the struts and a cable. For better appearance, you can let the cover plate color depending on the color of interior like the pictures.

Examples of Brackets - Shapes and Mounting









Electrical Connections

There are four cables took out the lifting mechanism. Black cable is ground. Red power cable leads directly to the battery, where is a fuse placed on the cable just before battery. Other two cables are used for a controller. Controller (button) is usually placed on the dashboard from the side. The button is then hidden when the door is closed. This location is very convenient, because when the door is closed it is not possible to activate the button accidentally. The button can be placed on a plastic of the door. Then it is advisable to install a lock switch to disconnect the button from power when the door is closed.

Loading Procedure

Before the First Loading

Precise adjustment of the sling is very important and determines how easily an accompanying person will manipulate with laded person. Pay set up and loading rehearse adequate preparation, because later you will not have to adjust the sling and loading will be quick. If possible, adjust the sling and practice loading with the company that made the adaptation.

Loading Procedure

Unfold the sling on the wheelchair where the disabled is transported to backrest handle went back up on his back. Move the user to the sling (at home, of the bed, with help of other persons ...). Slide the arm to the lifting mechanism in the car. Move the wheelchair as much as possible into space of open door and drive the lift as low as possible so that the arm fork with attachments pegs at the end of the arm was approximately over the belly of transported person.

Placing Sling on Arm

Side straps fit to come with carabiners on side attachment pegs of the arm. Attach the crotch strap on the middle peg. Lift the transported person and see how he will tilt when lifted above the wheelchair. Lifting person should sit balanced in air, should not be too tilted back or bent forward. Manipulation with backrest handle will help accompaniment person a lot. Lifting person more tilted back is even more preferred in low vehicles, thereby you will easier pass the disabled person through open door.

If the transported person leans too backwards, you need to move the sling on the wheelchair more backwards (backrest handle goes higher) and move the karabiner on crotch strap further out. If the lifting person falls forward, the process is reversed.

It is also possible to set the side straps variously to fix the lifted person more and reach as high as possible when lifting.

When adjusting the sling, it is necessary to achieve the lifting person was higher than car seat and thus it was possible to move him inside the car.

Transferring into Car

This procedure applies to standard loading on passenger seat (on the right). Loading procedure on second row may be different depending on whether the lifting mechanism is attached to the middle or rear pillar.

Lift the person on the sling, hold him by the backrest handle. When the lifted person will be high enough to move to the seat of the car, move the wheelchair to have sufficient space for manipulation. Turn the lifted person counterclockwise while you already face him into the space of open door. You can help by leaning over with the backrest handle. Into low cars it is advisable to first lean backwards to face the head first into car. Turn the transferred person using the arm joints over the seat and let him down.

After precise seating lower the arm, pull out all carbines and pull the arm out of the lifting mechanism.

If there appears any major problem when getting in the vehicle, it is possible to resew the sling or shape the arm differently.

The arm must not leave on lifting mechanism while driving for safety reasons!





Sliding the Arm into and out

Put the arm so that you tilt it slightly and slide it by upper groove under the pin in the sliding cube. Then tilt the arm back down to secure it. To slide the arm out apply the opposite procedure. First tilt the arm upwards and slide out the sliding cube.



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