

**VASSILLI** PADOVA - ITALY

FOR ANY INFORMATION TECHNICAL OR OF USE, CONTACT  
PLEASE THE NEAREST RETAILER.

RETAILER STAMP

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SALE DATE

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REGISTRATION DATE

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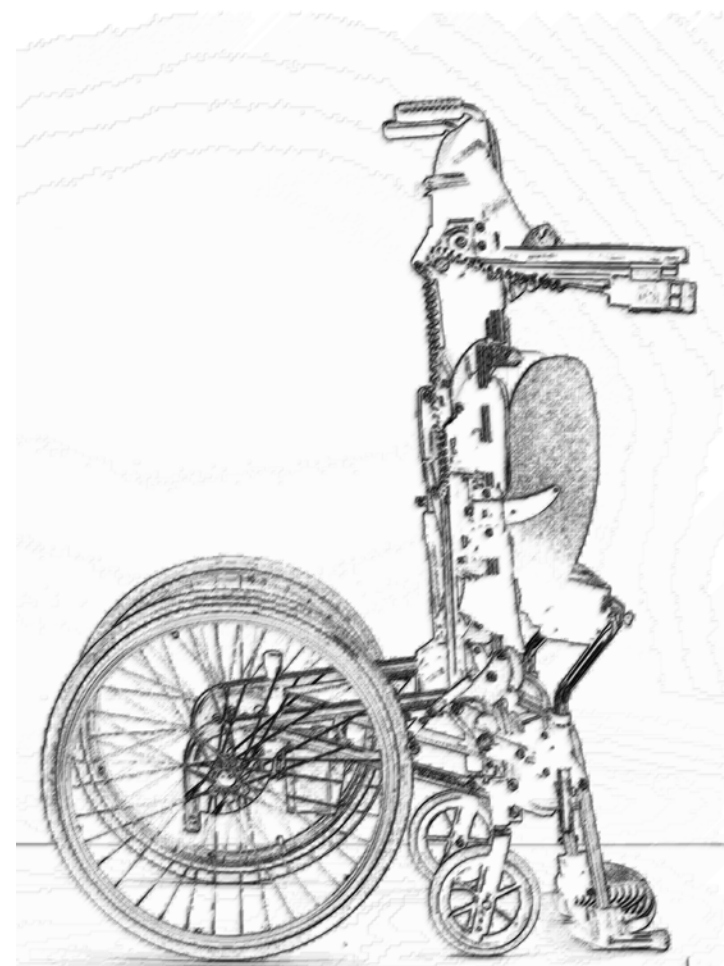
**MARK:** This manual  
must be presented  
for each repair.

ETICHETTA  
DEL COSTRUTTORE

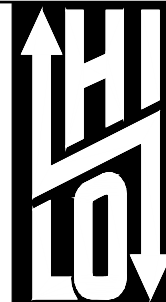
**VASSILLI**

VASSILLI s.r.l Via Canadà , 9 - 35127 - PADOVA - ITALY  
Tel. +39.049.8798911 r.a. - Fax +39.049.644546.  
www.vassilli.com E-mail: info@vassilli.it

**VASSILLI**



**USE MANUAL**



**18.64 M 18.64L**

INGLESE  
Rev. 07-2011

Dear customer,

first of all we would thank you for having chosen a model of our production of HI-LO; in the meantime we would congratulate with you because we are sure you have made the right choice.

This manual contains some necessary instructions of use and maintenance of your wheelchair. We suggest you, therefore, to read it carefully in all its parts and keep it everytime with you.

**For each particular problem don't hesitate to contact the authorized retailer of your country who will activate itself in the best way to assist you in the use of your wheelchair.**



**WARNING:**

Read carefully and completely this use manual and the enclosed leaflets, in case of using for the first time this aid. For any doubt you can have don't hesitate to contact the Authorized Dealer in your area.



In case that the user is a children, the parents, or the attendants or the survey people, must read carefully both the use manual and the enclosed leaflets and check the complete and clear understanding by the children.



**USE PURPOSE:**

The aids dealt with in this manual are intended for individual use and can be assigned to the user following the prescription of a technician or on direct request of the user.

All wheelchairs shown in this manual are realized for use indoor and outdoor and are for purpose to be used mainly by autosufficient users. Its use purpose is exclusively the transport of the single user correctly instructed about the use of the wheelchair and correctly seated on the seat, with the footplates, the side elements and the eventual optional components correctly assembled.



**WARNING: IT IS FORBIDDEN ANY OTHER IMPROPER USE!**

**WARNING:** In case of using the wheelchair in public streets it is necessary an active and passive lightening. If used outdoor user is obliged to follow highway code rules (the behavior must be same of a pedestrian).



**WARNING:**

- FOLLOW EVERYTIME THE CAUTIONS AND SUGGESTIONS FOR THE USE !
- RESPECT EVERYTIME THE SAFETY INDICATIONS !



**CAUTION: IT IS VERY IMPORTANT THAT YOU READ THIS INFORMATION REGARDING THE POSSIBLE EFFECTS OF ELECTROMAGNETIC INTERFERENCE ON YOUR POWERED WHEELCHAIR.**

**Electromagnetic Interference (EMI), From Radio Wave Sources:** Powered wheelchairs may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy (EM) emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones. The interference (from radio wave sources) can cause the powered wheelchair to release its brakes, move by itself, or move in unintended directions. It can also permanently damage the powered wheelchair's control system. The intensity of the interfering EM energy can be measured in volts per meter (V/m). Each powered wheelchair can resist EMI up to a certain intensity. This is called its "immunity level". The higher the immunity level, the greater the protection. At this time, current technology is capable of achieving at least a 20 V/m immunity level, which would provide useful protection from the more common sources of radiated EMI. This powered wheelchair model as shipped, with no further modification. The immunity level of this product is not known. There are a number of sources of relatively intense electromagnetic fields in the everyday environment. Some of these sources are obvious and easy to avoid. Other are not apparent and exposure is unavoidable. However, we believe that by following the warnings listed below, your risk to EMI will be minimized. The sources of radiated EMI can be broadly classified into three types:

- 1) **Hand-held portable transceivers:** (transmitters-receivers) with the antenna mounted directly on the transmitting unit. Examples include: citizens band (CB) radios, "walkie talkie", security, fire and police transceivers, cellular telephones, and other personal communication devices. \*\*NOTE: Some cellular telephones and similar devices transmit signals while they are ON, even when not being used;
- 2) **Medium-range mobile transceivers,** such as those used in police cars, fire trucks, ambulances, and taxis. These usually have the antenna mounted on the outside of the vehicle;
- 3) **Long-range transmitters and transceivers,** such as commercial broadcast transmitters (radio and TV broadcast antenna towers) and amateur (HAM) radios. NOTE: Other types of hand-held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, and cassette players, and small appliances, such as electric shavers and hair dryers, as far as we know, are not likely to cause EMI problems to your powered wheelchair.

**Powered Wheelchair, Electromagnetic Interference (EMI):** Because EM energy rapidly becomes more intense as one moves closer to the transmitting antenna (source), the EM fields from hand-held radio wave sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy very close to the powered wheelchair's control system while using these devices. This can affect powered wheelchair movement and braking. Therefore, the warnings listed below are recommended to prevent possible interference with the control system of the powered wheelchair.

**WARNINGS:** Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones can affect powered wheelchairs. Following the warnings listed below should reduce the chance of unintended brake release or powered wheelchair movement which could result in serious injury.

- 1) Do not operate hand-held transceivers (transmitter-receivers), such as citizens band (CB) radios, or turn ON personal communications devices, such as cellular phones, while the powered wheelchair is turned ON;
- 2) Be aware of nearby transmitters, such as radio or TV stations, and try to avoid coming close to them;
- 3) If unintended movement or brake release occurs, turn the powered wheelchair OFF as soon as it is safe;
- 4) Be aware that adding accessories or components, or modifying the powered wheelchair, may make it more susceptible to (EMI) (NOTE: There is no easy way to evaluate their effect on the overall immunity of the powered wheelchair);
- 5) Report all incidents of unintended movement or brake release to the powered wheelchair manufacturer, and note whether there is a radio wave source nearby.

**Important Information:** 20 volts per meter (VM) is a generally achievable and useful immunity 31

**WARNING!!!! CUT AND SEND IN A CLOSED ENVELOPPE STAMPED.  
IF YOU DONT SEND THIS PART THE WARRANTY WILL NOT BE VALID!!!**

Dear Customer,  
company Vassilli srl beyond the main scope of its activity: the full satisfaction of all its customers, ask you to spend some minutes of your time to give us an objective judgement on various aspects of the organization of the company which influences on the quality of the service offered.  
Therefore, please be so kind to file the enclosed questionnaire and send it in a closed envelope to the following address:

**VASSILLI S.R.L**  
Via Canada, 9  
35127 - PADOVA - ITALY

Thanking in advance for your kindness, we invite you to contact us for any request of information and/or notices to the following e-mail addresses:

- [info@vassilli.it](mailto:info@vassilli.it) - [qualita@vassilli.it](mailto:qualita@vassilli.it)

Personal data of the owner of the wheelchair

Name and Family name \_\_\_\_\_

Street and number \_\_\_\_\_

TOWN \_\_\_\_\_

PROVINCE \_\_\_\_\_ Postal code \_\_\_\_\_






Article:

N° of Lot-Year:

Serial number:

Stamp of dealer and purchase date



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*The informations contained in this manual are based on the technical specifications of the wheelchairs like they are at the date of printing of this manual. They could be, therefore, found technical changemements on the wheelchair, made without giving notice, in the continue effort to improve it further on.*

**DECLARATION OF CE CONFORMITY  
( 2007/47/CE Directive )**

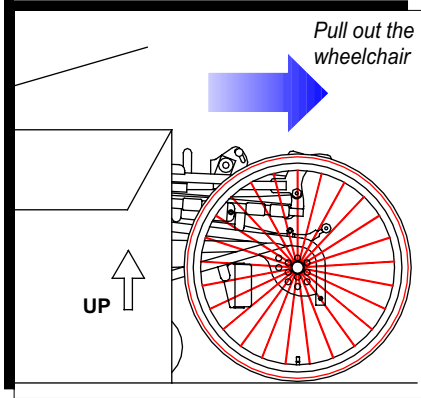


ALL ARTICLES DESCRIBED IN THIS MANUAL ARE IN ACCORDANCE WITH **2007/47/CE DIRECTIVE**

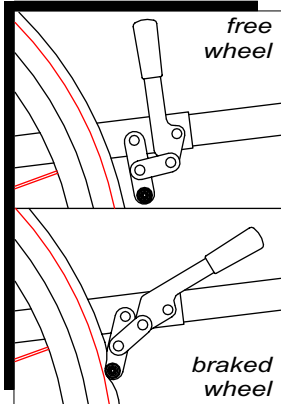
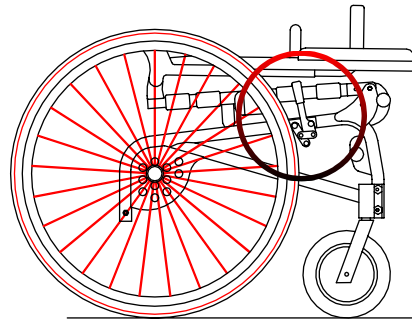
The conformity to the Directive has been achieved through the manufacture of all articles following the general specifications and the test methods of the harmonized norms:

- EN 12182 : "Technical aids for disables general - Requirements and test methods"
- EN 12183 : "Manual wheelchairs - Requirements and test methods"
- EN 12184 : "Electronic wheelchairs - Requirements and test methods"

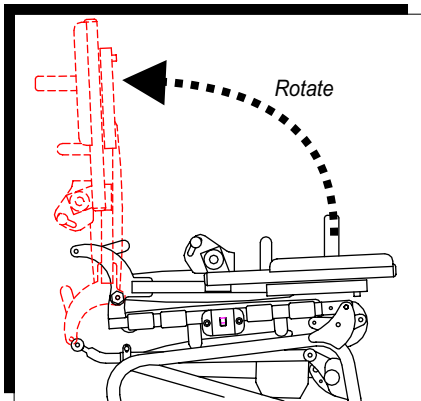
*Responsible of conformity*  

**Unpacking:**  
 Open the box from the top and remove from the package all the components (wheels, armrests, footrest, side panels, ecc.) and the eventual optionals, keeping attention to not hurt or loose them.  
*Carton may be re-used for other packaging or destined to recovery being material which can be reconverted. Don't waste on ambient !*



The pair of manual brakes are a component very important for the safety of the user. They are applied on the sides of the wheelchair, in a position easy for the user. To brake the wheel push totally forwards the brake lever until it locks on the wheel. To free the wheel pull backwards the brake lever. Use the brakes everytime in pairs.



Rotate backwards the backrest until reaching the vertical position. The backrest can be folded over the seat for space saving during the transport and the stocking.

**LIVEL OF SATISFACTION**

1 Low    2 Just sufficient    3 Sufficient    4 Quite good    5 Good

**QUALITY OF THE PRODUCT**

Please express your judgement on the quality of Vassilli products :

- |                                       |                            |                            |                            |                            |                            |
|---------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1. Design                             | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 2. Finish                             | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 3. Varnish                            | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 4. Optionals                          | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 5. Praticalness/functionnality        | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 6. Hardiness/endurance                | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 7. Materials used                     | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 8. Technical/designing solutions used | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |

**QUALITY OF THE SERVICE**

Please express your judgement on the service offered by company Vassilli :

- |  |                            |                            |                            |                            |                            |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 9. Respect of the delivery times agreed    | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 10. Timeliness on the technical assistance | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 11. Availability of the spare parts        | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 12. Clearness/completeness of the offers   | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 13. Kindness of the Vassilli personnel     | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |

**QUALITY OF THE ORGANIZATION**

Please express your judgement on some parameters which can indicate the degree of organization of company Vassilli :

- |  |                            |                            |                            |                            |                            |
|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 14. Delivery times                           | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 15. Technical documentation supplied         | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 16. Commercial/advertising material supplied | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 17. Organization of meetings/updating        | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 18. Policy commercial and of the prices      | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |
| 19. Image of company Vassilli in the market  | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | 3 <input type="checkbox"/> | 4 <input type="checkbox"/> | 5 <input type="checkbox"/> |

DEALER

END USER



NAME OF THE AUTOR \_\_\_\_\_

DATE \_\_\_\_\_

### CONDITIONS OF WARRANTY:

THE STRUCTURE AND THE FRAME OF THE AIDS INCLUDED IN THIS MANUAL ARE COVERED BY WARRANTY FOR A PERIOD OF 24 MONTHS FROM THE PURCHASE DATE. The components moving and/or subject to wear and tear, electric and electronic are covered by warranty for a period of 12 months since the purchase date.

During this period **VASSILLI s.r.l.** engages itself to replace or repair free of charges those parts which would result defectives for manufacturing, debiting only the labour charges and provided that one of our qualified technician **has verified that the damage is not due to defect of use.**

The restoration of the aid will be made in our factory, therefore, the eventual delivered **must be sent carriage free.**

**VASSILLI s.r.l.** will send to the customer the restored aid **carriage forward**, consequently the transport charges and risks and the eventual package needed are in charge of the aid's owner.

Eventual repairs or restorations in warranty must be supported by **our authorized retailers.**

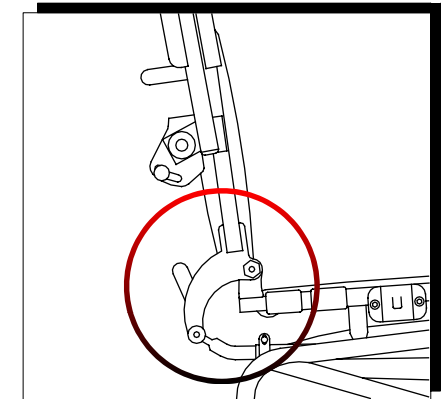
#### **THE FOLLOWING IS NOT COVERED BY WARRANTY:**

- **IMPROPER USE.**
- **MODIFICATIONS WITHOUT PREVIOUS AUTHORIZATION.**

**The products included in this manual cant be modified. Each modification, including the assembling of spare parts or optionals not recognized, let the product become unsafe and invalidate any mark of safety and warranty.**

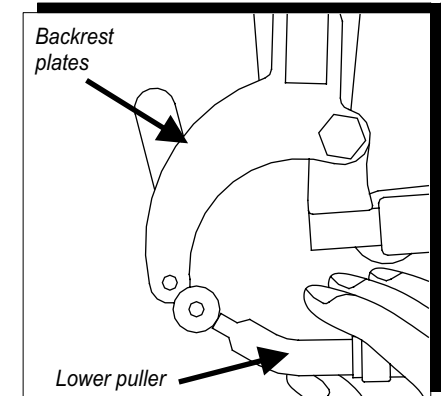
**VASSILLI SRL will refuse any responsibility on products modified or any damage or lesion incurred from the effect of the modification. The carelessness of the usual and extraordinary maintenance operations relieves the manufacturer from any responsibility**

When the backrest is in vertical position it will be necessary to tighten the lower plates to the lower pullers by the 2 fixing knobs.



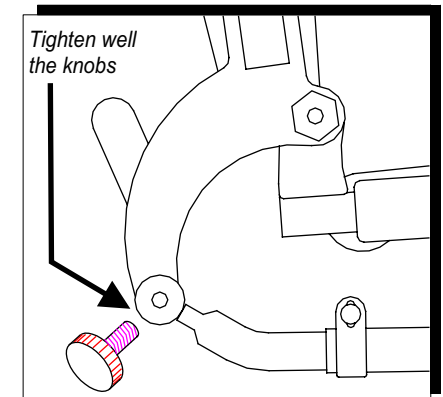
By a hand rotate slowly the backrest and by the other support one puller each time.

Rotating the backrest the edges of the plates will have to enter into the bushes of the pullers, in order to have the lining up to the suitable holes.



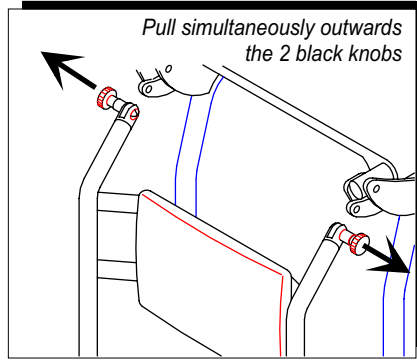
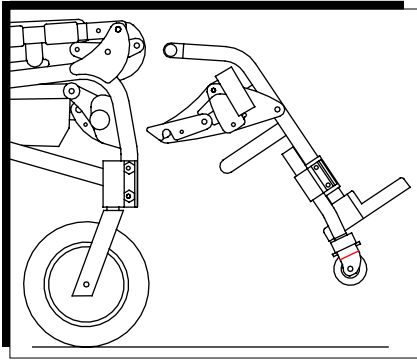
Insert and tighten the fixing knob  
Repeat the operation for the other puller; this operation it will easier because the backrest is already fixed and it stays in position itself.

**Warning: before the use check to have both the knobs tighten and periodically check the fixing!**

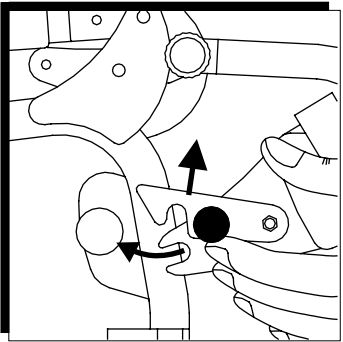




**FOOTREST**

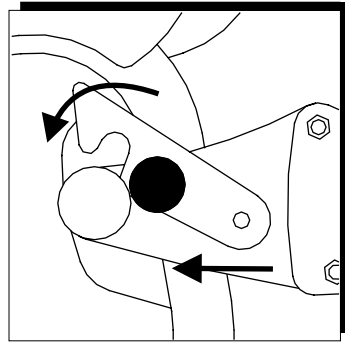


Now hook the round little blocks of the footrest to the frame. Pull outwards simultaneously by both hands the 2 black knobs and insert the little blocks on the edges of the plates, lined up to the hooking holes. Release the black knobs and check if the pins are suitably inserted in the plates holes.  
*Warning, check the right hooking of the little blocks to the plates checking that, moving the footrest forwards and backwards, it doesn't unthread.*

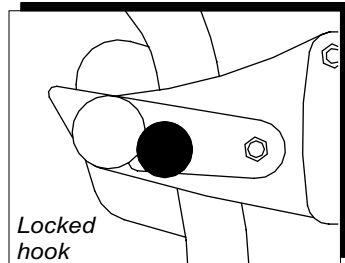


**WARNING !!  
DANGER  
OF CRUSH !**

*Keep upraised the 2 hooks by the hands and lower the footrest.*



*Warning: these operations must be made using both the hands simultaneously!!*



*Locked hook*

By both the hands keep upraised simultaneously the 2 hooks of the footrest and let lower it in order that the holings of the side plates go to insert on the side pins of the frame. Release the hooks in order that they go to lodge also them on the side pins.  
*Warning, check the right lockage of hooks to the pins checking that, moving the footrest forwards and backwards, the hooks don't unthread and that they have suitably fastened the footrest to the side pins.*  
 To remove the footrest operate on opposite.



**SOME EXAMPLES of IMPROPER USE**



**WARNING :** On the following pages are listed some dangerous situations which can happen in some conditions of IMPROPER USE. Both the wheelchair user and the eventual attendant must use the useful suggestions indicated to extricate from the various situations of danger.

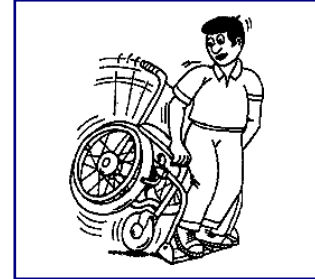
**PRACTICAL SUGGESTION WE PROPOSAL ARE THE MOST USUAL; IN CASE USER IS GOING TO USE THIS AID FOR THE FIRST TIME, WE SUGGEST YOU TO CONTACT REHABILITATION TECHNICAL PERSONNEL FOR ADDITIONAL SUGGEST FOR USE.**



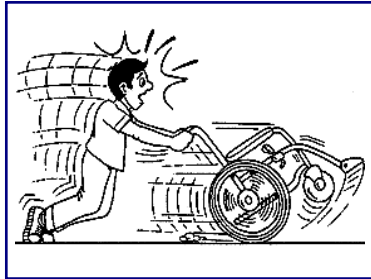
FOLD THE FOOTRESTS EVERY TIME BEFORE PLACING THE PATIENT ON THE WHEELCHAIR.



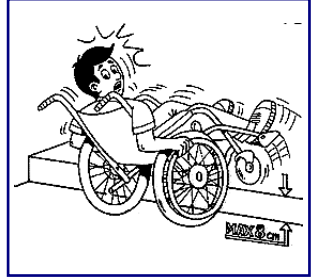
DON'T UPRISE BY THE ARMRESTS THE WHEELCHAIR BECAUSE THESE CAN COME OUT.



NEVER LAY THE FEET ON THE WHEELCHAIR'S FOOTRESTS TO UPRISE OR SEAT DOWN BECAUSE YOU CAN RISK TO TIP OVER FORWARDS TOGETHER WITH THE WHEELCHAIR.



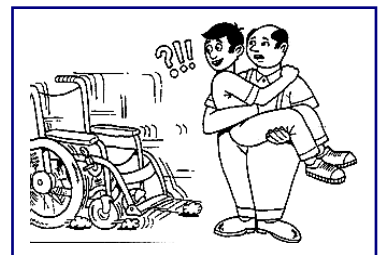
DON'T USE THE WHEELCHAIR LIKE WALKER BECAUSE IT CAN GO AWAY FROM THE HAND PROVOKING THE FALLING DOWN OF THE USER WITH CONSEQUENCES WHICH CAN BE VERY SERIOUS.



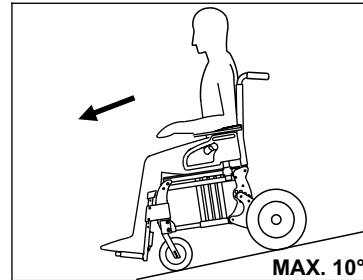
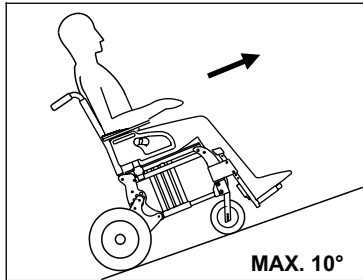
NEVER DESCEND STEPS HIGHER THAN 1.6" BOTH FORWARDS AND BACKWARDS. RISK TO TIP OVER.



NEVER DESCEND STEPS WITH THE WHEELCHAIR BY ONLY ONE WHEEL A TIME. IT CAN CAUSE FORWARDS ANTITIPPING.



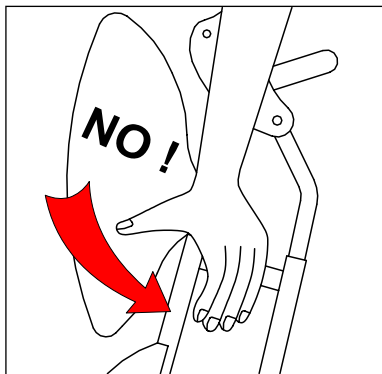
INSERT EVERY TIME THE PARKING BRAKES WHEN YOU MOVE THE PATIENT FROM TO THE WHEELCHAIR.



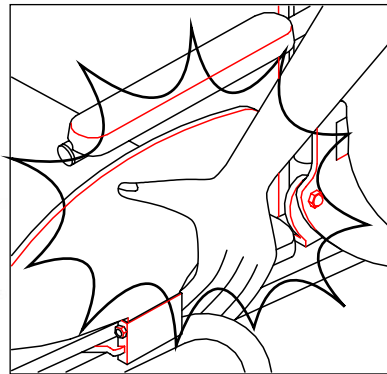
**IT IS ABSOLUTELY FORBIDDEN TO DRIVE OVER SLOPES (DOWNWARDS OR UPWARDS) HAVING INCLINATION DEGREE OVER THE MAXIMUM ALLOWED !**

**WHEN MOVING ON INCLINED SURFACES, IT IS ABSOLUTELY FORBIDDEN TO ACTIVATE ANY MOTION WHICH MAY CHANGE THE SEAT FROM BASE POSITION !**

**ALWAYS AVOID ANYWAY SUDDEN MOVEMENTS, BOTH UPWARDS AND DOWNWARDS AND TAKE ALWAYS THE BEST CARE IN DRIVING !**



**Warning !**

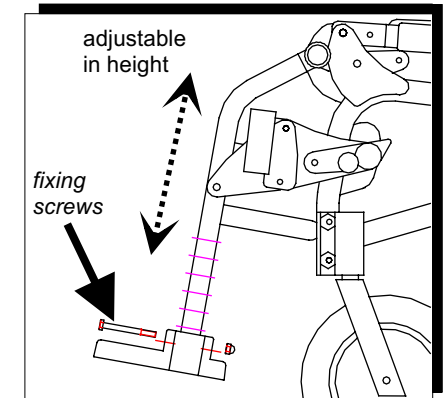


**WARNING !! DANGER OF CRUSH !**

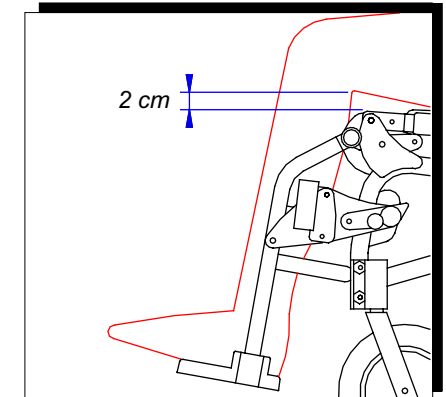
**During the descending movement of the wheelchair's seat of HI-LO wheelchairs, the user and the attendant must pay attention to never place the hands and the arms, the dresses or other, on the location between the armrest support and the seat because there is danger of crush.**

The footrests can be adjusted in height and can be folded towards inside.

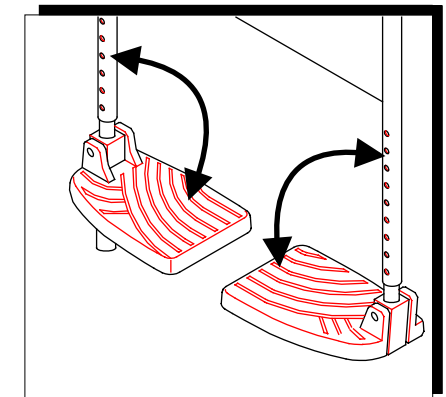
Unscrewing and pulling out the screw sidely indicated it is possible to let slide in height the footplate until the optimate size. Reinsert the screw correspondently to the adjustment hole and tighten well the fixing screws.



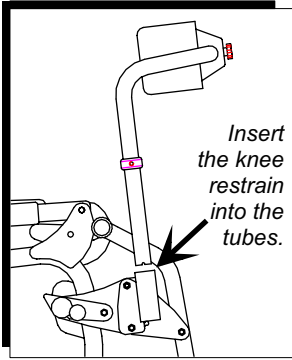
To obtain a correct location check upper part of lower limb not to load on seating laying. You must have 2 cm of space between seat and thigh. This check must be done also in presence of a cushion on the aid.



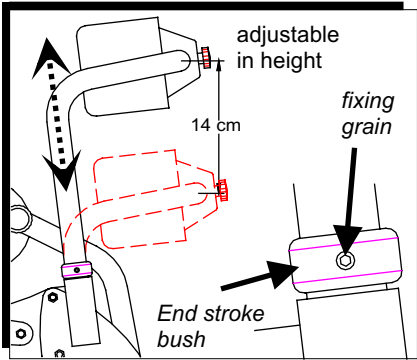
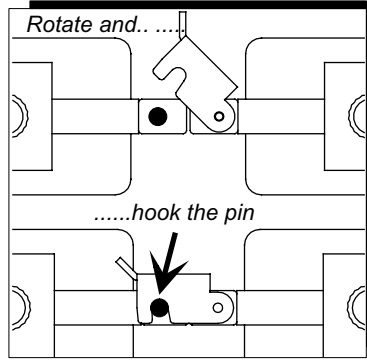
The footrests can be folded towards inside to allow the user to seat and to stand up from the chair. **ATTENTION : Each time the user will seat or stand up from the chair, the footrests shall always be folded towards inside!** NEVER LAY THE FEET ON THE WHEELCHAIR' S FOOTRESTS TO UPRISE OR SEAT DOWN BECAUSE YOU CAN RISK TO TIP OVER FORWARDS TOGETHER WITH THE WHEELCHAIR.



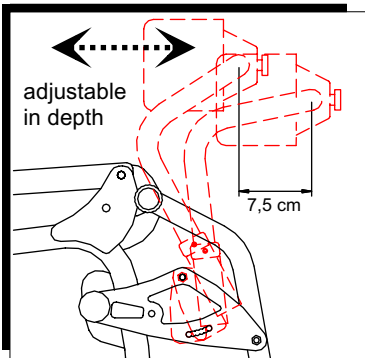
**KNEE RESTRAIN**



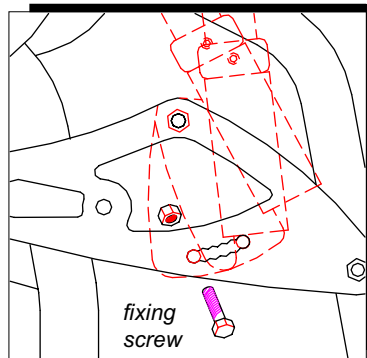
The knee restrain is composed of 2 elements (right and left) which must be inserted in the suitable side tubes of the footrest support. After it must be hooked the right element to the left one rotating the central lockage.



The padded knee restrain is adjustable in height, depth and inclination. To adjust the height of the paddings, loosen the fixing grain of the bush for the end stroke (see sidely), place the bush upwards or downwards, depending if you need the knee restrain lower or higher and tighten again the fixing grain. The 2 elements of the knee restrain must be adjusted at the same height both to be suitably hooked and for a suitable support of the knees.



Be careful to dont adjust the knee in a too strict position because, during the verticalization, this one could tighten too the knees.



To adjust the dept it is necessary to act on the inclination of the supporting tubes; unscrew and pull out the fixing screws of the supporting tubes, turn them forwards or backwards (depending if you want to move away or bring nearer the paddings) aligned to the adjustment holes. Once reached the position reinsert and tighten the screws. Also in this case the 2 components of the knee restrain they must be adjusted at the same inclination and depth.

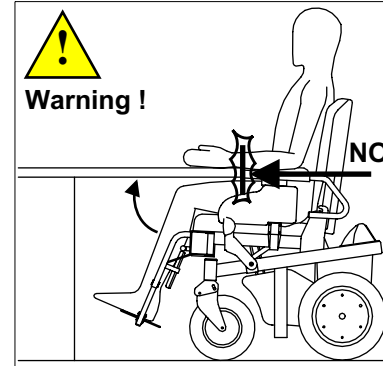
**WARNINGS !**



**WARNING :** In this pages are listed some warnings which must be followed during the use of the aid.

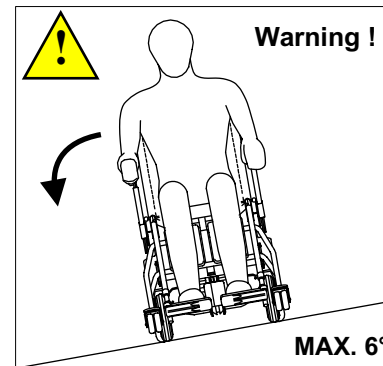
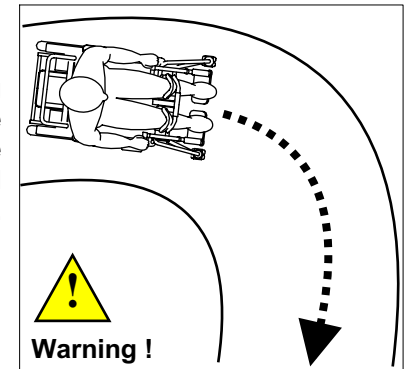


**Pay the maximum attention both to the ground conditions that you are driving along and to the objects and persons who are around you.**



**Avoid to hit with the armrests, or other parts of the frame, against table edges or narrow passages when the wheels are driving. This to avoid both risks of tipping backwards and to hurt with the legs against the lower surface of the hit flat.**

**Reduce speed when approaching sharp bends! The sharper is the bend, the more shall speed be reduced. Pay attention also to ground conditions you are driving over.**



**Do not drive over straight roads having a slope over the maximum allowed!**





## DISPOSAL AND RECYCLING



### Disposal and recycling

The disposal of the device and of its components has to be done following the rules of the national acting laws.

The packing, the metal parts, and the plastic components must all be recycled and disposed following the local administrative rules.

The batteries must all be disposed following the local administrative rules.

Be informed on the company in charge for the picking up of the separate materials and for the disposal, contacting your local administrative.

*Attention: dont waste on ambient !!*



Notes:

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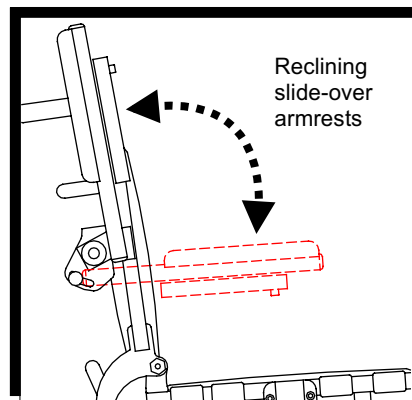
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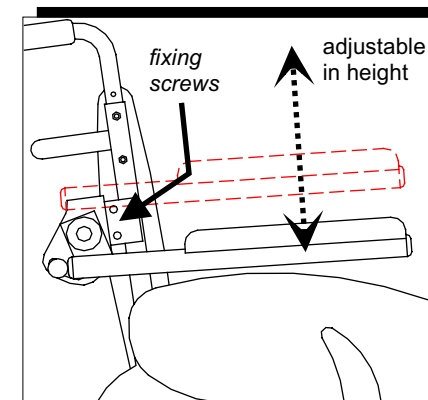
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## ARMRESTS (optional 14.78H for 18.64L)



Reclining  
slide-over  
armrests



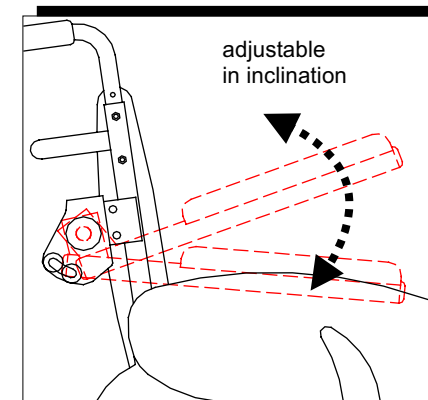
fixing screws  
adjustable  
in height

The armrests can be:

- reclined backwards to allow the side transfers of the user
- adjusted in height, to adapt to the lengths of the upper limbs
- adjusted in width, to adjust the inner seating size
- adjusted in inclination.



**Warning: never catch by the armrests to raise or move the wheelchair!**



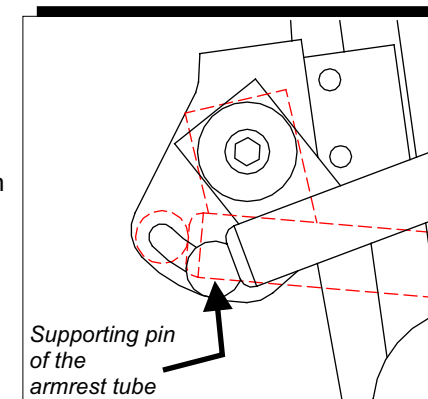
adjustable  
in inclination

For the adjustment in height loosen the 2 screws above indicated on rt, place the armrest and the suitable support to the desired height and tighten, fastening the 2 screws.

For the adjustment in width loosen everytime the 2 screws above indicated, rotate the support outwards and tighten very well the fixing screws. Check that the armrests are in parallel between them and lined to the seating.

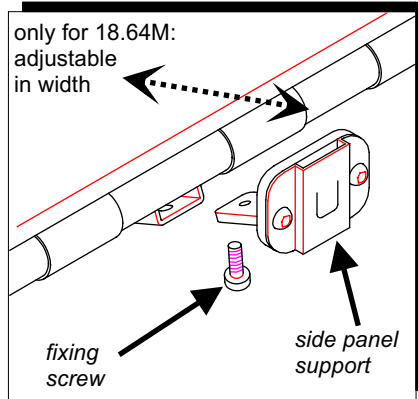
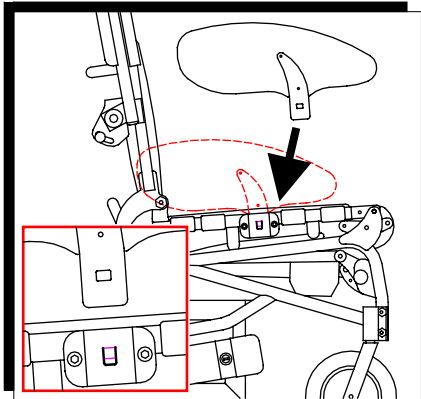
To adjust in inclination the armrest, loosen the inner bolt which locks the laying pin of the tube of the armrest (see sidely).

Move the pin on the holing until the desired inclination of the armrest. Tighten and fasten very well the bolt which locks the pin.

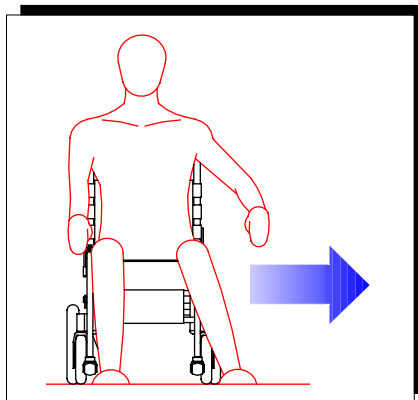
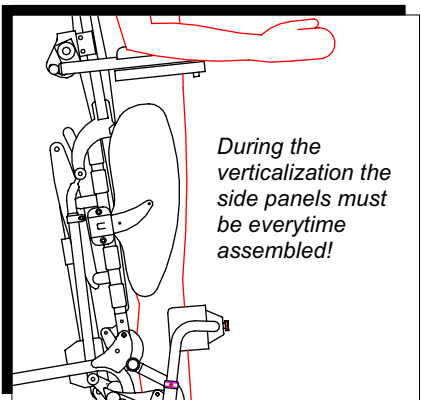


Supporting pin  
of the  
armrest tube

**SIDE PANELS**



The side panels are removable and adjustable in width. After having inserted them in the suitable locations applied sidely to the seat (above lf drawing), check, seating on the wheelchair, if the inner space is suitable. If isnt so it will be possible to adjust in width until + 3 cm for each side, for a total of + 6 cm compared to the width of the seat. Loosen the screws which fix the supports to the seat (above rt drawing), move sidely the supports until the desired dimension and tighten, fastening well, the fixing screws.



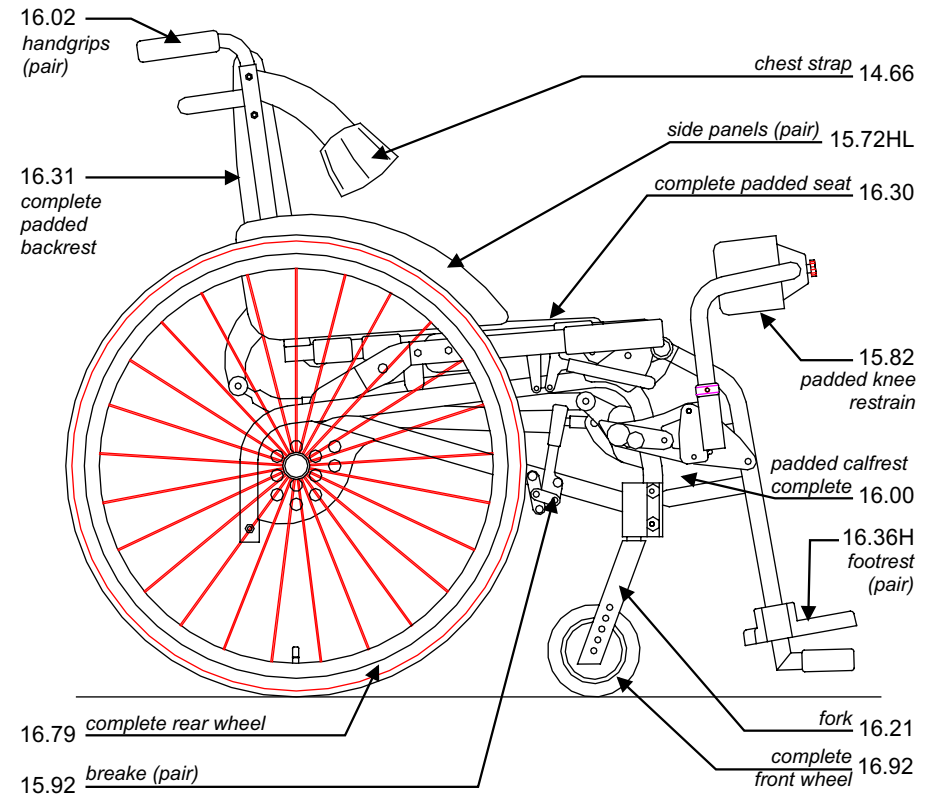
The side panels have also an important function of side containing of the pelvis. **They must be everytime assembled during the verticalization!!**



The side panels are removable both for space saving during the transport and to allow easy side transfers of the user.

**Spare parts list 18.64L HI-LO**

WARNING: ON THE REQUEST OF SPARE PARTS ALWAYS SPECIFY ARTICLE AND SIZE OF WHEELCHAIR.

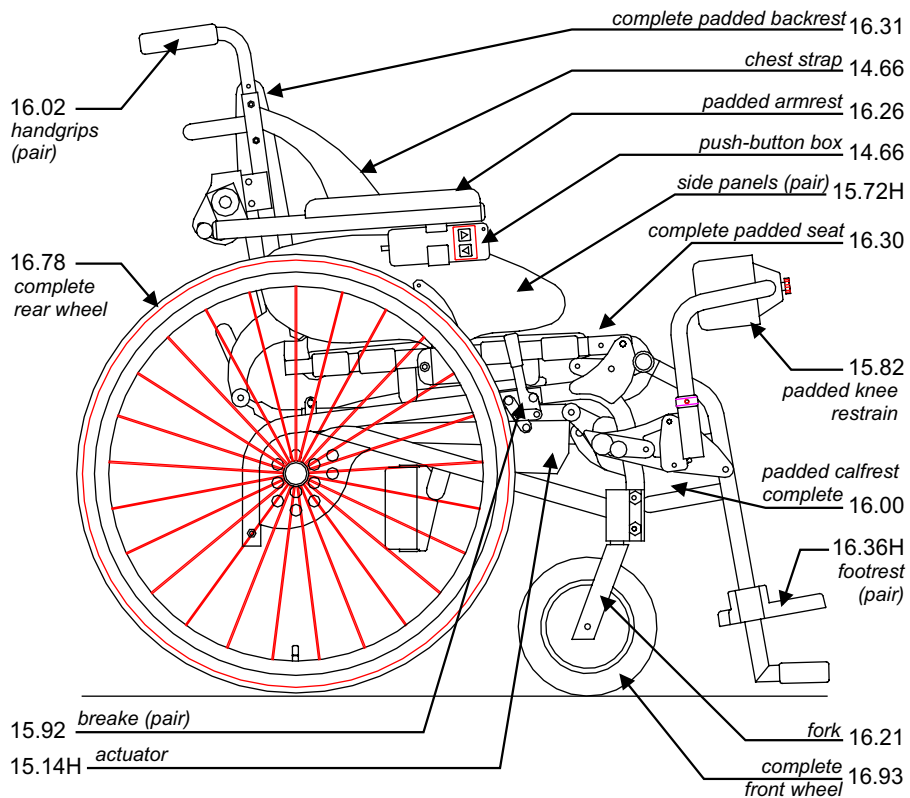


**Technical features**

Classification :	ISO EN 9999: 12.21.06 Class B
Max safety slope :	10° on heavy ground
Max height of obstacle which can be overpassed:	40 mm
Brakes :	Hand brakes
Seat height :	50 cm
Seat width :	36 cm - 42 cm - 46 cm
Height :	90 - 102 cm
Lenght :	110 cm
Width :	56 cm - 62 cm - 66 cm
Weight :	26 Kg
Max Loading :	120 Kg (75 Kg Junior)

**VASSILLI Spare parts list 18.64M HI-LO**

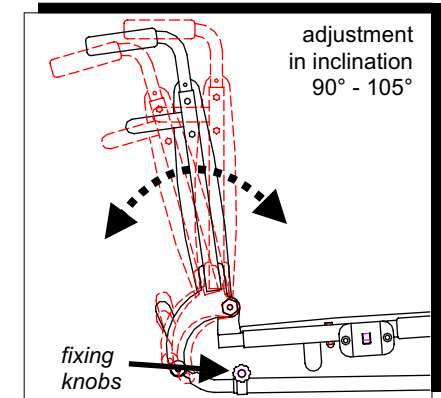
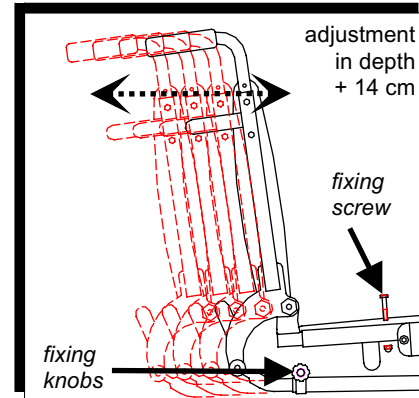
WARNING: ON THE REQUEST OF SPARE PARTS ALWAYS SPECIFY ARTICLE AND SIZE OF WHEELCHAIR.



**Technical features**

Classification :	ISO EN 9999: 12.21.06	Class B
Max safety slope :	10° on heavy ground	
Max height of obstacle which can be overpassed :	40 mm	
No. and type of Batteries :	2 - 12V 2Ah Sealed	
Brakes :	Hand brakes	
Autonomy :	30 verticalizations with 90 Kg user	
Seat height :	50 cm	
Seat width :	36 cm - 42 cm - 46 cm	ACTUATOR
Height :	110 cm	Stroke 130mm
Length :	100 cm	Speed 10mm/sec.
Width :	56 cm - 62 cm - 66 cm	Motor 24V/DC 50W
Weight (with batteries) :	38 Kg	3000 N
Max Loading :	120 Kg (75 Kg Junior)	
Fuses :	Two inside controller of 5x20 with values from 0.2A to 10A	

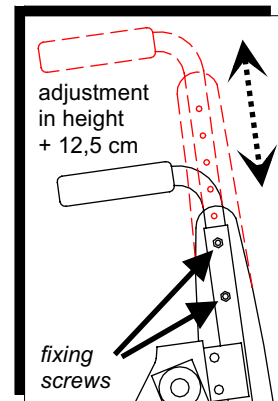
**VASSILLI BACKREST**



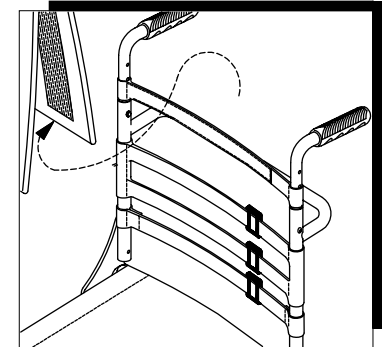
The backrest of our HI-LO wheelchairs can be adjusted in depth and inclination. To adjust the seating depth it is necessary to loosen the 2 fixing clamps of both the pullers and pull out the fixing screws of the seating tube (see above left drawing). Then let slide forwards or backwards the whole backrest until the desired size and lined up to the adjustment holes of the chromed tubes which slide inside the seat. Reinsert and tighten well the seat screws and fasten the pullers knobs.

To adjust the inclination loosen the bolts of the 2 fixing clamps of both the pullers (see above right drawing). Then rotate the backrest to the desired position and fasten the bolts of the fixing clamps.

**Warning:** check well that both the tubes of the pullers and the chromed tubes of the seat are adjusted exactly everytime at the same size!!

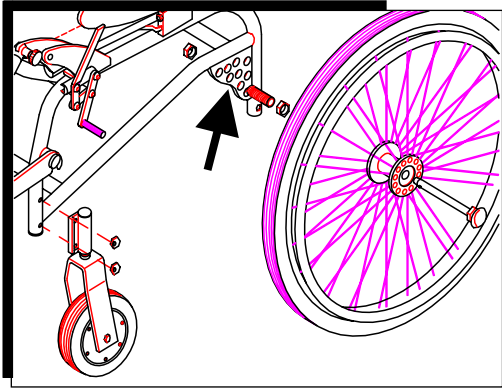


The handles are adjustable in height. Loosen and remove the fixing screws, let slide the handle to the desired sizes and reinsert the screws tightening.



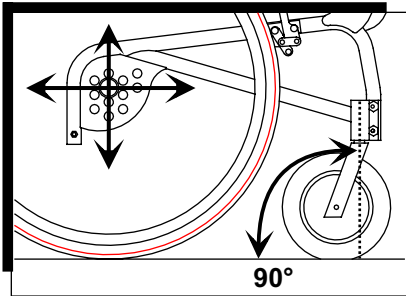
The configuration of the shape of the backrest can be modified following the needs.

For the adjustment remove the cushion of the backrest (fixed by Velcro straps). Then longer or stretch the tensioning belts following the shape which you desire to give to the backrest. Then reposition suitably the padded covers previously unthreaded and let adhere the velcro straps.

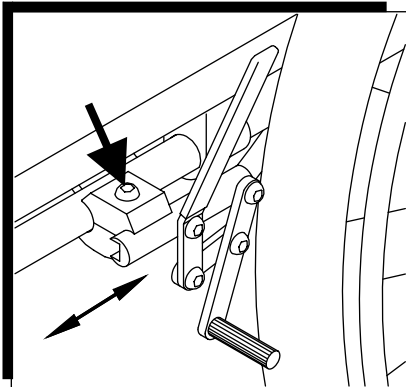


The wheelchair design allow to change the weight or the sitting positioning:

Moving the rear axles in one of the different holes of the rear support, a different slope is obtained and therefore a different weight distribution.



When the rear axles are moved from the original position, also the perpendicularity of the front turning axles must be corrected. Unscrew the screws and take out the eccentric hexagonal nut, then rotate the fork support until it is vertical to the horizontal plane.



To adjust the brakes, unscrew the locking bolt (as shown in the diagram), then slide the brake assembly toward the front or the back until the position is correct for the brake use and tighten strongly the bolt

*P.S. Every time that the position of the rear wheels is changed, the brake should be adjusted to a new optimum position.*



Label fixed on the frame shows the identification data and features of Your aid. It's shows lot, year of manufacture, wheelchair code, maximum praticable slope, maximum loading allowed and maximum inflating pressure of tyres.

**VASSILLI**  
Via Irpinia 1/3 35020  
SAONARA PADOVA ITALY

Pressure: X/XX Bar

MOD - XX.XX-XX XX°

SN - XXXXXXXXXX XXX/XX Kg

LOT XXXXXXXXX XX Km/h

**VASSILLI S.r.l.**  
Padova 35020 Italy

Pressure: bar Load/Weight:

Slope: Max Speed:

**WARNING!** Read carefully the instructions for use!  
Tipping danger!

Made in Italy

Label fixed on the frame

Label of batteries controller pack

ATTUATORE ACTUATOR CARICA BATTERIE BATTERY CHARGER

PULSANTIERA PUSH-BUTTON BOX

24V DC fusibili - fuses: T200mA - T10A (5x20mm)

alimentazione feeding code OKIN DATE

protezione protection IP 50

Label of actuator

**Okidrive EZ** AB00629SN0402086042  
1.01.000.XXX.XX

Eingang: 24 V ~ 50 W

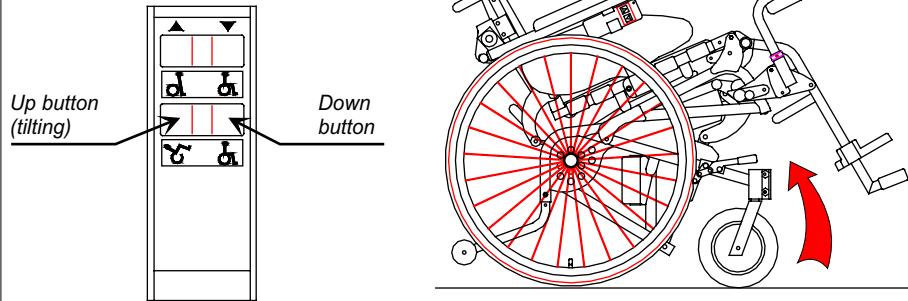
Betrieb: ED 15% bei max. Dauerbetrieb von 2 min.  
max. 5 Schaltzyklen pro min.

**OKIN**  
Antriebstechnik  
GmbH & Co. KG  
Zur Merhardt 9  
D-51645 Gummersbach

Made in Germany

**Before the use read carefully the instruction manual of the electronic controller enclosed!! During the electric movements be careful to never place the hands or the arms, or other parties of the body, or dresses or objects, in the areas concerned to the movements, danger of entrapment!!**

**SUPPL. 13.22 HM**  
**Electric tilting seating.**

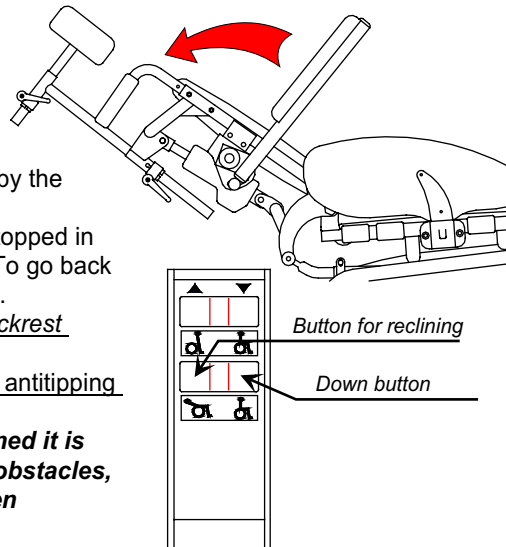


This function allows to change, tilting, the inclination of the seating until a maximum of 25°. The movement is activated by the apposite button placed on specific telecommand. Movement could be stopped in any moment releasing push-button. To go back an seated position used down button. *It is suggested to use headrest or backrest extension (see page 19).* It is compulsory to use everytime the antitipping wheels fitted on. **WARNING: with the seating reclined it is absolutely forbidden to overpass obstacles, humps, slopes and drive on uneven surfaces, sand.**



**SUPPL. 14.92HM**  
**Backrest reclining electrically.**

This function allows to change simultaneously the inclination of the backrest until a maximum of 140°. The movement is activated by the apposite button placed on specific telecommand. Movement could be stopped in any moment releasing push-button. To go back an seated position used down button. *It is suggested to use headrest or backrest extension (see page 19).* It is compulsory to use everytime the antitipping wheels fitted on. **WARNING: with the backrest reclined it is absolutely forbidden to overpass obstacles, humps, slopes and drive on uneven surfaces, sand.**



The wheelchair are equipped with quick release rear wheels. The system allows to uninstall the large wheels in a very simple manner in order to provide easy access through narrow doorways and/or to transport the wheelchair with smaller volume and less weight. **WARNING: during the disassembling and assembling of the wheels, the brakes must be disconnected.**

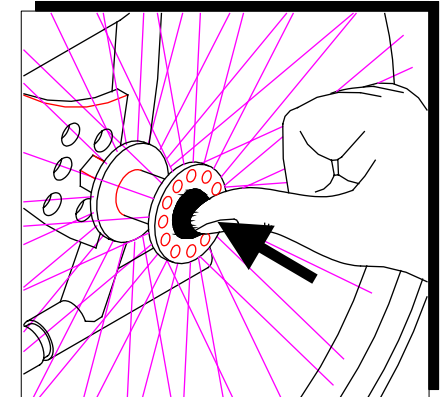


fig. 1

In order to take off the wheels it is necessary to:

- disconnect the load on the side of the wheelchair where you intend to slip off the wheel (only in case there have been assembled the castors for narrow passages),
- push the sliding button placed on the centre of the hub (fig. 1)
- slip off the complete wheel (fig. 2).

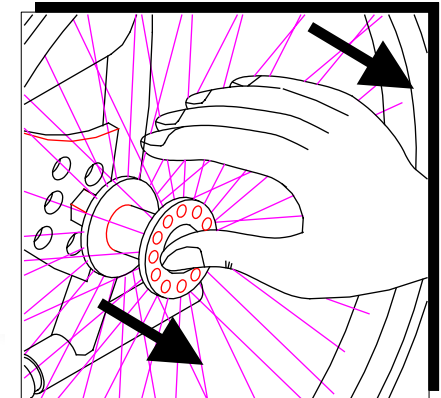


fig. 2

To reassemble the wheel operate on contrary reinserting the pin on the location and pushing hardly both the wheel and the pin (fig.3). **WARNING: check the lockage of the wheel to be everytime on the right position, exercising a light traction outwards on the wheel itself.**

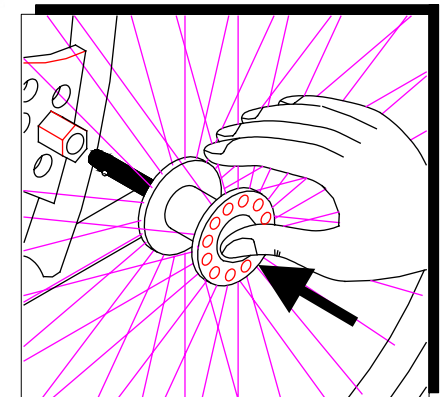
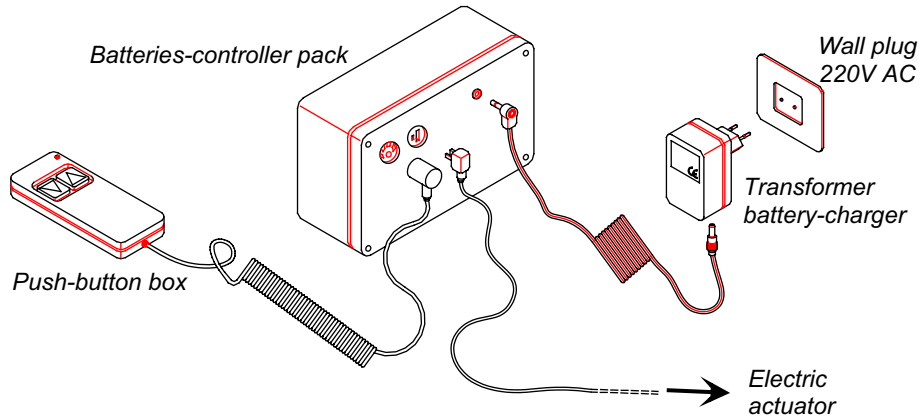


fig. 3



**PLANT WIRING 18.64M**

Before using wheelchair must be checked electric connections following diagram here under. To avoid any type of fault on electric connections, each electric - electronic component is connected to controller by a different type of connector.



**Batteries recharge:**

To recharge the batteries first connect the feeding cable to the transformer, then the transformer to the network 220V.

**Recharge time: 12 / 14 hours approximately.**

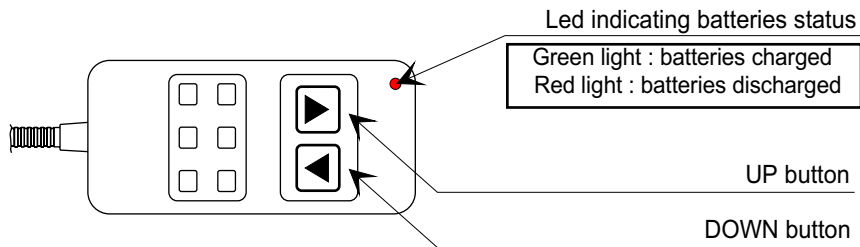
**WARNING:** If the batteries are completely discharged their life is reduced to the half and it is compromised their warranty for defect of use. Therefore look carefully to the visual indications -led- lighting which comes from the Led on push-button box.

**Put the batteries under charge each evening!!!**

Check everytime the efficiency of the Battery charger.



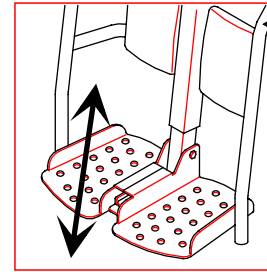
**PUSH-BUTTON BOX 18.64M**



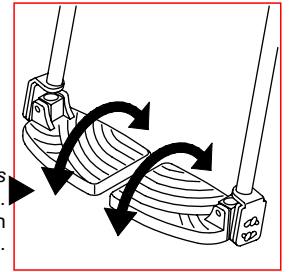
Led indicating batteries status remain constantly lighted to indicate, with intensity of light shown, batteries charge status.

**SOME OPTIONALS**

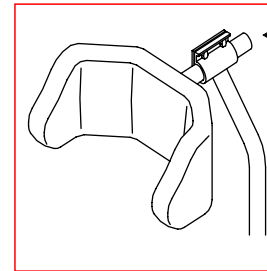
Look at our catalogue for the other optionals available.



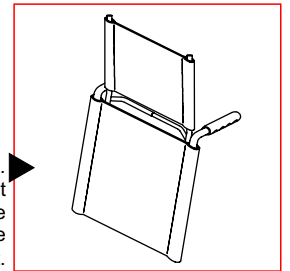
**Suppl. 14.73HE: electric adjustable footrest.**  
Footrest with footplate electrically adjustable in height with control on the joystick.



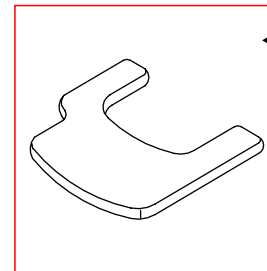
**Suppl. 14.73H: separate footplates adjustable in angle.**  
Footplates separately adjustable in inclination and which can be opened.



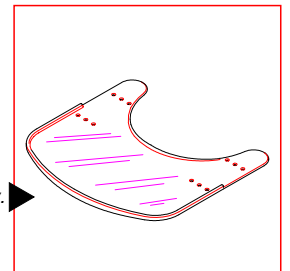
**Suppl. 14.81: postural headrest.**  
Padded headrest adjustable in height and depth. It is compulsory in case you have the reclining backrest.



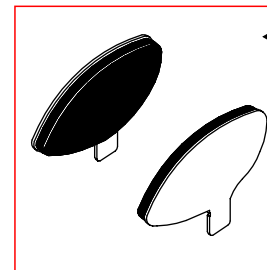
**Suppl. 14.82: backrest extension.**  
Extension with function of headrest adjustable in height. Alternative to the padded headrest once you have the reclining backrest.



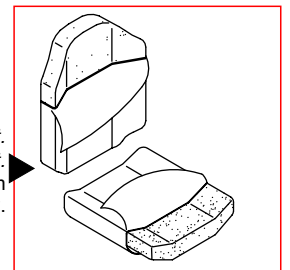
**Suppl. 14.53D/S: padded tray.**  
Padded tray contoured on rt or left side for the drive with the joystick, adjustable in depth.



**Suppl. 14.51U: transparent tray.**



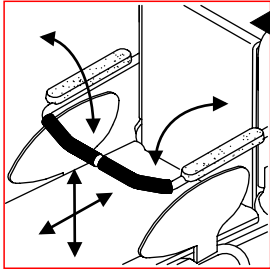
**Suppl. 14.23H: padded side protections.**  
Padded detachable.



**Suppl. 21.06H: postural backrest.**  
**Suppl. 21.14h: postural seat.**  
Backrest and seat padded in foam active available separately.

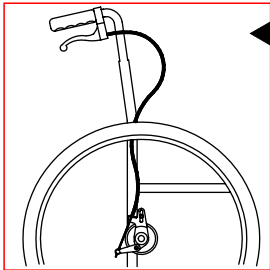
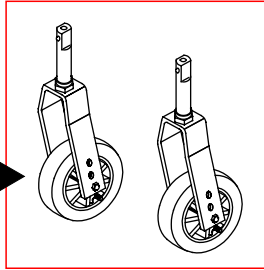
**SOME OPTIONALS**

Look at our catalogue for the other optionals available.



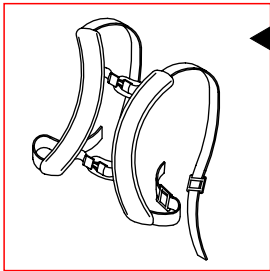
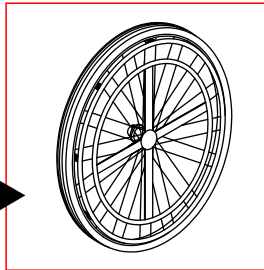
Suppl. 13.00/S: armrests with frontal close with double adjustment. They have an important containing and safety function but they don't replace the chest straps.

Suppl. 1355: front wheels with quick release.



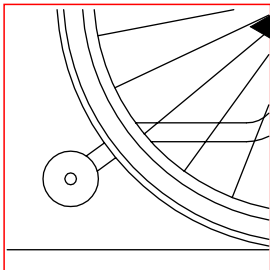
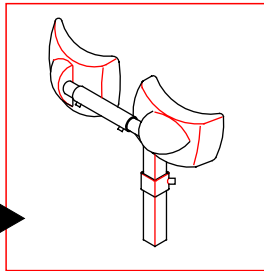
Suppl. 13.20: drum brakes with levers for the attendant.

Suppl. 13.61D - 13.61S: one arm drive device RT or LF.



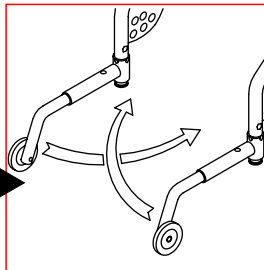
Suppl. 14.62: strap with braces. Alternative to the standard chest strap, offers a greater containing also at the pelvis level.

Suppl. 14.40H: central knee restraint. In alternative to the standard one.



Suppl. 13.43: antitipping wheels. Avoid backwards upsetting of the wheelchair and are compulsory with the electric tilting.

Suppl. 13.43G: antitipping wheels receding. In alternative to the standard antitipping wheels.



**VERTICALIZATION 18.64M**

**WARNING: Before verticalizing wheelchair is necessary to be sure that user in any way slides and therefore is necessary to hook suitable knee restrains in addition to chest strap.**

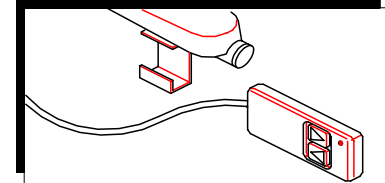


Selfpropelling wheelchair 18.64M is a valid aid fitted with movement, by electric actuator with push-button box, which allows verticalization of user, avoiding passing time arising of ulcers and decubitus sores preventing prostatic problems; in addition, when necessary allows user to reach places which could be approached only standing up. Verticalization is obtained keeping pushed suitable up push-button placed on push-button box. Movement could be stopped in any moment releasing push-button. To go back on seated position use down button.

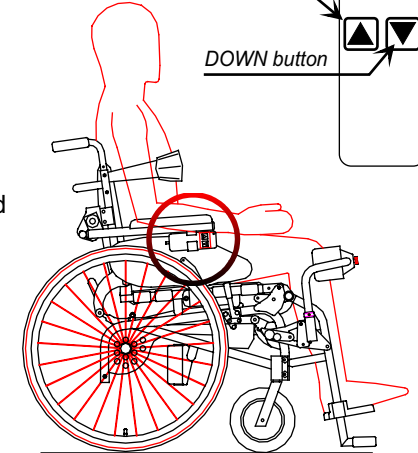
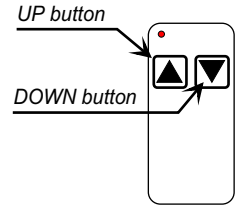
Before verticalizing is necessary to breake everytime the two rear wheels (see page 4) !!

During verticalization, when being on vertical position, is necessary use of chest strap, supplied with the wheelchair, which is a valid support for user safety.

During the electric movements be careful to never place the hands or the arms, or other parties of the body, or dresses or objects, in the areas concerned to the movements, danger of entrapment!!



Telecommand is placed under armrest. It drives verticalization moving. Telecommand could be pulled out from suitable location and could be used also by an eventual attendant. **MARK** : When detaching armrest with telecommand, pay attention to avoid fall down or damages to this last one.

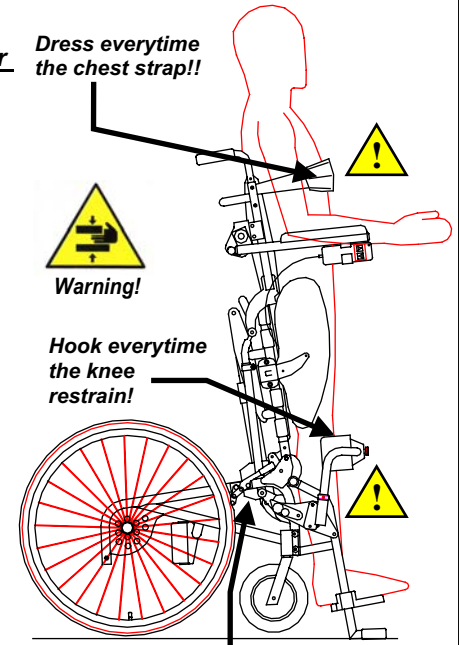


**Dress everytime the chest strap!!**



**Warning!**

**Hook everytime the knee restrain!**



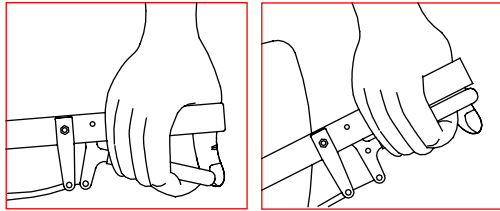
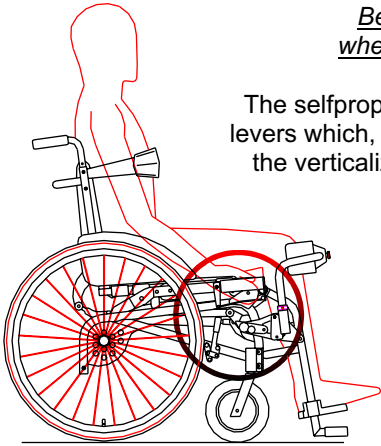
**Breake everytime rear wheels !!**

**WARNING:** Before verticalizing wheelchair is necessary to be sure that user in any way slides and therefore is necessary to hook suitable knee restrains in addition to chest strap.



Before the verticalization lock everytime the 2 rear wheels acting both the manual brakes (see pag. 4)!!

The selfpropelling wheelchair 18.64L is equipped with 2 side levers which, catching and pulling them by both hands, act on the verticalization mechanism servoassisted by a gas pump which simplify the movement.

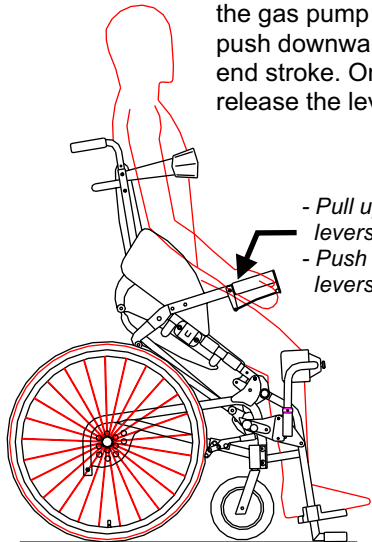


*Pull the lever to free the push of the gas pump*

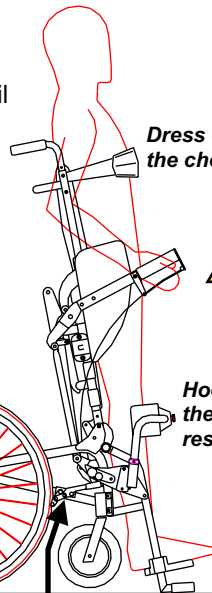
Catch well both the handgrips of the side levers, act by the hand the lever which frees the gas pump and contemporarily pull both the 2 side levers towards themselves in order to verticalize. It is important that when acting on the 2 side levers it is everytime necessary to pull the lever which frees the gas pump.

Effectively if the gas pump is locked, also the movement is locked becoming unuseful the work of the 2 side levers.

To lower the seating act the lever of the gas pump and at the same time push downwards the 2 side levers until end stroke. Once reached the position release the lever of the gas pump.



- Pull upwards both the 2 side levers to stand up.
- Push downwards the 2 side levers to lower.



**Dress everytime the chest strap!!**



**Hook everytime the knee restrain!**

**Brake everytime rear wheels !!**

**FABRIC and PLASTICS WASHABLE MATERIALS:**

Clean weekly the upholsteries with neutral detergents. Rub periodically the plastic washable upholsteries with oils or specific products in order to avoid cracks. Seat and backrest, with opened wheelchair, must be well tight, if they aren't they must be replaced.

**BEARINGS and MOVING MECHANICAL PARTS:**

Moving mechanical parts and bearing must periodically be oiled. Avoid to park wheelchair on humid and not well aired places to avoid forming of rust on moving parts which could compromise their functionality.

**FRAME:**

Frames of our wheelchair have an excellent degree of finishing (chroming or varnishing) to maintain their efficiency passing time without particular specific maintenance. Precautions nevertheless when using wheelchair on sea areas is suggested to cover the frame chromed parts with a light coat of oil to avoid saltness to corrode chromium-plating. In case of incidental contact with sea water, wash immediately and carefully the wheelchair with water and wipe off possibly with compressed air. Oil immediately after frame with a inbued cloth to avoid forming of rust or oxidations.

**FRONT and REAR TYRES:**

Pressure of tyres is extremely important: therefore is necessary maintain it everytime on the suggested values:

*Front wheels: 2,5 bar Rear wheels: 4 bar*

In case of puncture of rear wheels address to a tyre repaire who will have to us suitable tools to put out, from the circle edge, the pneumatic, pull out the inflating valve and at last put out the damage inner tube.

For assembling operate on reverse sense.

Check periodically status of track of tyres; they must be not too much weared or not have cuts; in case You must provide to replacement. For replacement of tyres refer to sizes indicated on their sides.

**In case that the user is unable to execute himself the ordinary maintenance operations he can contact the nearest centre of assistance.**



**For any service operation address to nearest service centre or to qualified persons !**

