

# VASSILLI





**Art. 10.95**

**INSTRUCTIONS FOR USE AND SERVICE**

**CEILING HOIST**

ITALIANO  
Rev. 04-2024

- Intended use -	_____	p.2
- Declaration of conformity -	_____	p.3
- Technical specifications	_____	p.4
- Unpacking	_____	p.4
- Construction components	_____	p.5
- First assembly and installation	_____	p. 6
- Control panel	_____	p.7
- Manual emergency lock and lowering	_____	p.8-9
- Battery charging	_____	p.10
- Use	_____	p.15
- Daily and regular inspections.	_____	p.16
 Electromagnetic compatibility EMI -	_____	p.16
 Cleaning, disposal and recycling -	_____	p.17
- Marking.	_____	p.17
- Warranty	_____	p.18

#### INTENDED USE:

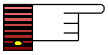
The ceiling hoist is an assistive device designed to lift, verticalize and restore walking skills for users with reduced mobility. The assistive device must be operated by an assistant who has been trained and instructed in the use of the device. It is a Class I medical device in accordance with the classification criteria of Annex IX to paragraph 3 p.to 1.1 of Legislative Decree 46 of February 24, 1997.

- The assistance is not a one-off
- Aid is not sterile
- The aid does not have a measurement function
- Assistance is not intended for the administration of medicines

This manual contains some of the instructions you need to use and maintain your appliance.



**WARNING:** Read this user manual and the enclosed brochures carefully and completely if you are using this appliance for the first time. If you are in any doubt, please contact your local authorized dealer.



**WARNING: ALWAYS FOLLOW THE SPECIFICATIONS FOR USE AND SAFETY INSTRUCTIONS!**

**WARNING:** in case of improper use, Vassilli declines all liability for damage to property and/or persons!!!



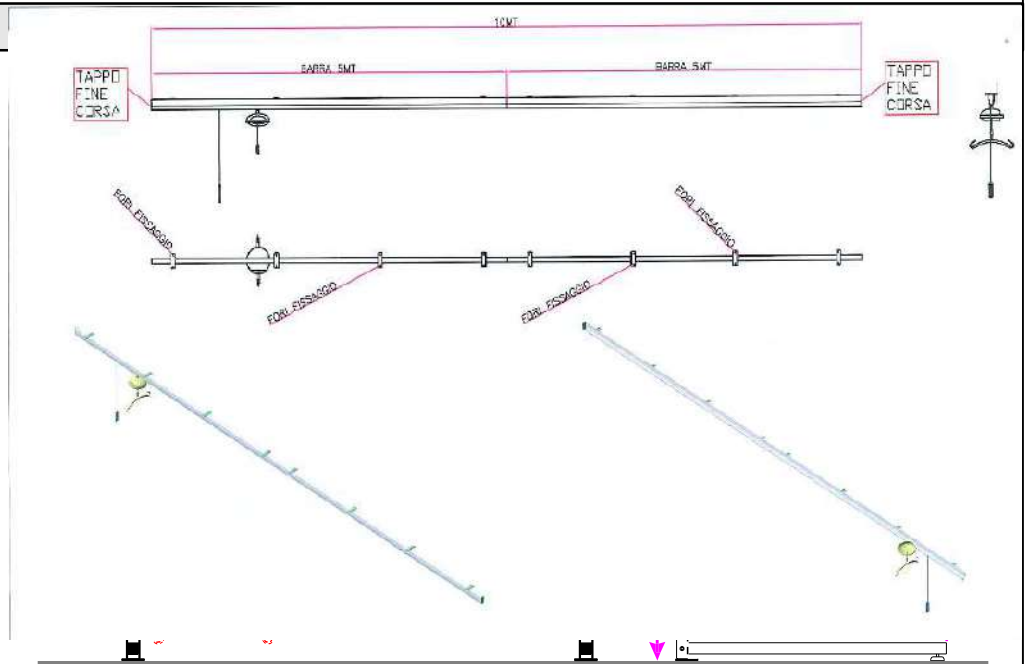
***WARNING: The assistant performing the first lifting operations must be a person trained in rehabilitation,***

to be informed in advance of any problems caused by lifting a user who is not used to change!



**! Misuse is strictly prohibited!!!**





EU Declaration of Conformity in accordance with the provisions of Regulation (EU) 2017/745 in Annex IV.

A medical device, commercially designated as:

Art.10.95 Ceiling hoist

Basic UDI-DI: 805527193Sollev002GZ



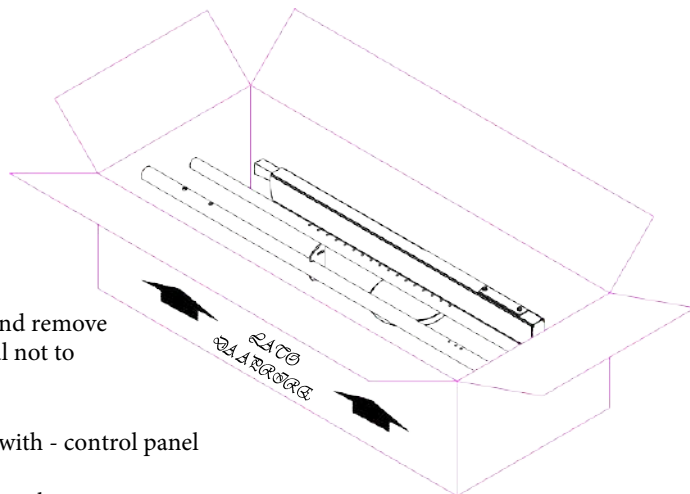
It is intended for use as a medical device for people with disabilities and meets all the requirements of Regulation (EU) 2017/745. The assistive device has been subjected to a risk analysis in accordance with UNI CEI EN ISO 14971, attached to the technical file, as well as static and dynamic stability verification tests with positive results in accordance with the requirements set forth in the technical standards:

- NI EN 12182 "Products intended to assist people with disabilities. General requirements and test methods"
- EN ISO 10535 "Elevators for the transportation of people with disabilities - Requirements and test method"

The CE marking (Annex V of the Regulation) is then affixed to allow regular placing on the market and putting into service. Class I medical device according to regulation 13, Annex VIII of Regulation (EU) 2017/745. The ceiling hoist is intended for verticalization and restoration of walking skills of a person. The ceiling hoist must be operated by trained personnel who are instructed in the use of the device. The ceiling hoist can be used for indoor use and/or in equipped structures, it should not come into contact with water sources or be used in very humid places. The lift must be inspected and maintained with a maximum frequency of every 12 months, starting from the second year after commissioning

A device with internal battery power (battery).

- Operating voltage: 36V DC
- Frequency: 50/60 Hz
- Control unit: 36 V DC max. 10A IP54
  
- Battery charger is powered by AC voltage: 100-240 V; 0.5 A
- Lifting speed: according to EN10535
- Operating temperature: +5° to +40°
  
- Emergency lowering device: manual mechanical, mounted on the lifting unit.
- Emergency stop button
- LED charge indicator on the keyboard
- Audible and visual alarm of the battery level in the backup.
- Control: push-button panel with spiral cable
- **Load capacity: 200 kg.**



#### UNPACKING:

Open the box from the top and remove all components, being careful not to bump them or lose them.

Ceiling hoist consists of:

- item. 1 lifting unit complete with - control panel and charger

- item.1 Column cross with brackets
- item. 1 Lifting bracket
- item. 1 pulley with electric drive
- item 2 guide rail, 3m

- Clause 3 Suspension bar.
- Screws for assembly and mounting.
- Sling



The cardboard box can be recycled as it is a recyclable material.

Do not dispose of it in the environment!!!

### Ceiling hoist with 6 meter rail (complete set)

Ns.	Item No.	Article No.	Description.	Picture.	Note	Quantity, pcs.
1	H038000CH1001	KHF.01	CH100 Ceiling hoist		Load capacity: 200 kg with manual control panel, rechargeable battery, battery charger and user manual	1
2	H037KHF001140	10KHF001.14	SB2-A Lifting bracket with hooks		Lifting bracket for attaching the sling	1
3	H0370KHF01280	KHF01.28S	EPO35 Pulley with electric drive		Electrically driven pulley that allows horizontal movement controlled by hand control instead of assistant Note: It cannot replace the rails).	1
4	H037CH100BZD0	KHF.DY	Sling for active rehabilitation		Allows users to perform exercises in a rehabilitation and lifting environment with support	1
5	H037E00106060	20KHF001.06.06	H132-02 Guide rail, white, 3 meters/piece, rail material: metal		Guide rail, metal, suspended from the ceiling	2
6	H0370KHF04304	KHF04.30E	Suspension rod 120-190		To fix the rail to the ceiling	3
7	H0370KHF03300	KHF03.30	Rail connection kit		Used for connection between rails	1
8	H037E00106040	20KHF001.06.04	H132-02 Guide rail end plate, white		Blind the guide rail	2



FIRST, TO ENSURE COMPLETE USER SAFETY, YOU MUST FOLLOW THE INSTRUCTIONS DESCRIBED IN THIS MANUAL



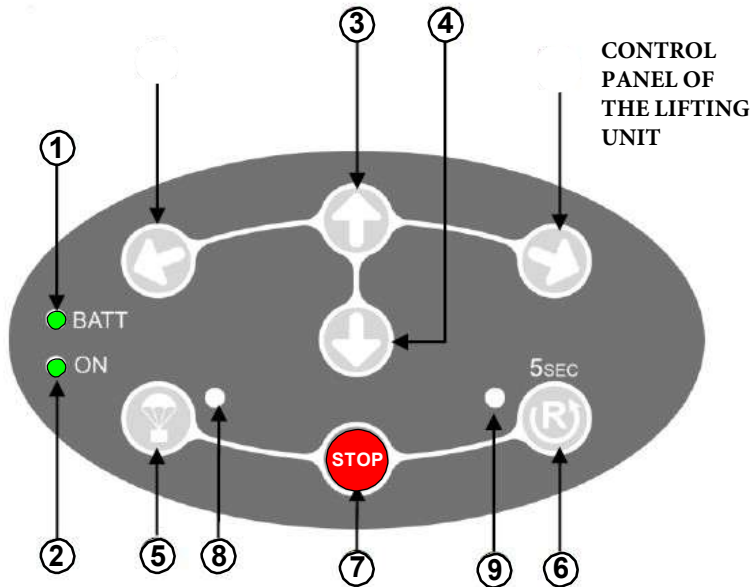
#### INSTALLATION SEQUENCE:

To assemble and position the lift correctly, proceed as described on the following pages in accordance with the specified assembly sequence. The illustration above shows a properly assembled lift in all its parts.

We recommend assembling the lifting structure in a horizontal position on the floor and then placing it in a vertical position only during the last locking steps at the bottom. Use of the electronic lift.

We recommend the presence of at least two properly trained technicians for installation!

The lift controls and their functionality are shown below:



**Keys:**

(1) battery indicator: when the indicator is on, the device is charging.

(2) the device indicator is on: the lift is ready for use.

**-(3) Lift button: when this button is pressed, the lifting device starts lifting the load, when the button is released, the lifting stops.**

-(4) lowering button: when this button is pressed, the lifting device starts lowering the load, when the button is released, the lowering stops.

-(5) emergency lowering button: pressing this button will significantly reduce the lowering speed.

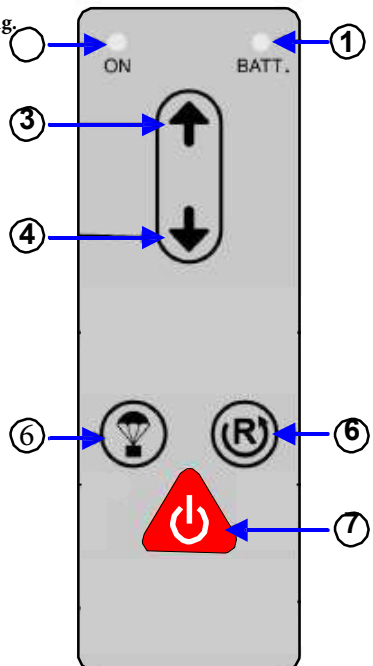
-(6) pressing this button for 5 seconds will restart the lifting device.

-(7) on/off button: to execute a command, hold it down for 3 seconds.

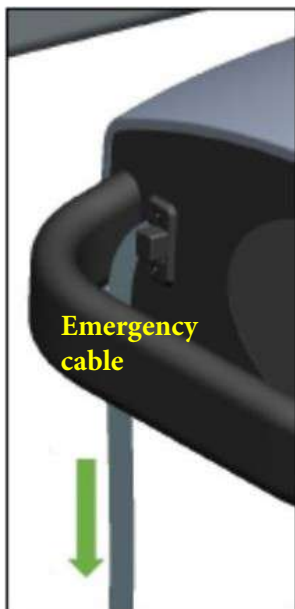
-(8) light indication of the active emergency descent command.

-(9) light signaling of the active reset command.

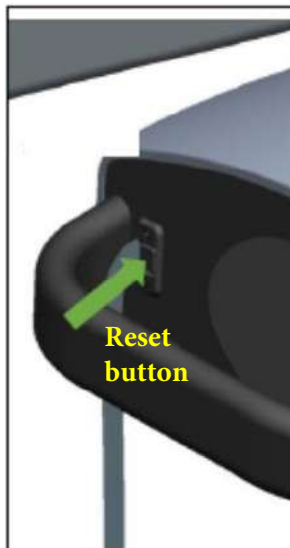
**BUTTON PANEL**



The lift has an emergency stop function that interrupts the operation of the unit. In cases where it is necessary to interrupt any active function of the lift for emergency reasons, pull the cord highlighted in the figure down: each function will be interrupted.



To restore the correct operation of the lift, press the button indicated in the illustration on the right.  
ATTENTION: If it was necessary to activate this emergency function due to a device malfunction, have the equipment inspected by a qualified technician before returning to use!







The ceiling hoist has an emergency lowering function. To ensure this function, the lift is equipped with a manual emergency lowering, which can be used if the lowering does not work due to an electronic failure of the device, a dead battery or a malfunction of the push-button panel.

To perform an emergency lowering, follow the steps described.

**fig.8**

Figure 8: Remove the button cap from the lift.

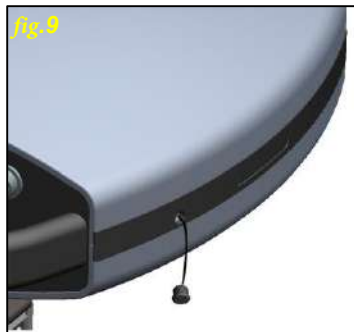
**fig.9**

Figure 9: Remove the rubber plug on the side of the lift.

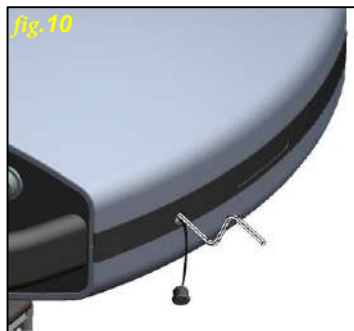
**fig.10**

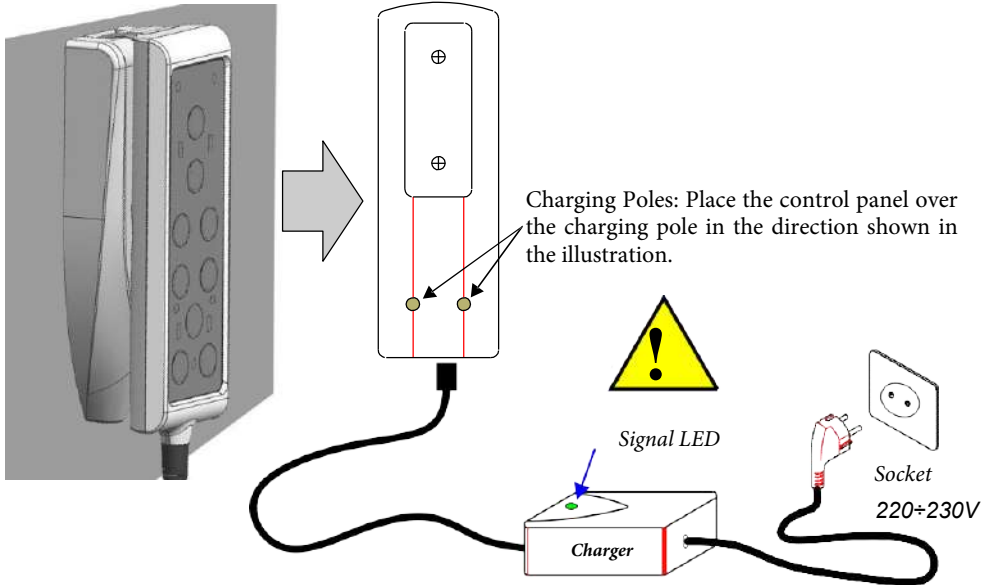
Figure 10: Take the key provided. Insert the key into the lift and turn clockwise to lower the user.



**ATTENTION:** *If one of the emergency stop functions has been activated, the lifting device must not be used again (see page 19 Periodic checks and inspections)! If in doubt, contact your authorized dealer.*

## Button panel

## Charging stand



The lift must be charged by placing the control panel over the charging support (see figure above).

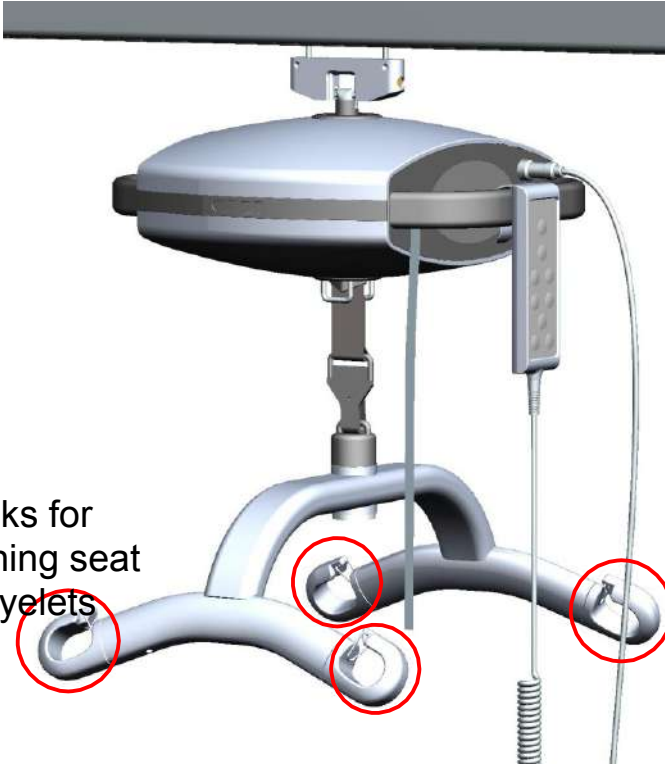
**WARNING:** charge the device every night when the device is not in use! If the equipment is stored for a long time, it is advisable to charge the batteries before placing the lifting unit and to charge them at least once a month.

- Connect the wall mount cable to the charger.-
- Plug the charger into a 220÷230 V wall outlet

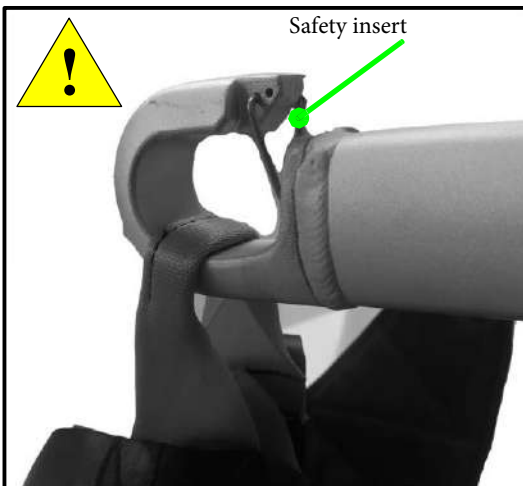
**WARNING:** When inserting the control panel into the charger, make sure that the charger LED indicator is lit (orange). Otherwise, make sure that the button panel is correctly inserted and fully seated in the support! The indicator always stays on while charging and goes off when charging stops.

Instructions for use of the lifting bracket for attaching the sling. It is equipped with 4 hooks at the ends to secure the corresponding loops of the harness. To insert the harness, follow these steps:

4 hooks for  
attaching seat  
belt eyelets



## Hook detail



Insert the strap eyelets into the open hooks as shown in the side view and make sure the safety tongue is in the closed position as shown in the side view.

*follows* →

The ceiling hoist is equipped with a sling for active rehabilitation.

The hoist has an adjustable sling size.

The harness should always be inserted across the user (see the example shown below). When the user is using the lifting system, the prescribed conditions must be observed. Always check the enclosed harness manual! The side view shows the seat belt with slots for attachment of different heights to allow the user to be placed in more comfortable positions. **WARNING:** Belts must be selected according to the size and weight of the user.

Vassilli s.r.l. is not responsible for incorrectly positioned slings. It is the responsibility of the assistant to ensure that the harness is put on correctly and safely for the patient!



*Each strap has 3 slots that give possibility to adjust the size of the slings depending on the the user's needs.*

## CEILING



**WARNING**

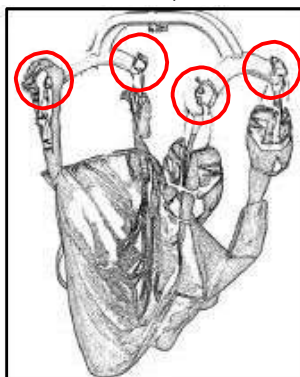
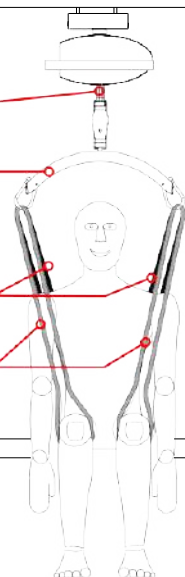


*Lifting and lowering strap*

*lifting bracket*

*Head strap*

*Strap on both sides*



In a 4-point sling, each sling strap must be hooked into one hook to ensure the stability of the load. The sling should always be in a position parallel to the ground, as shown in the illustration next to it.

**WARNING:** When lifting, the user must be monitored and supported during the transfer.



**WARNING**

- - The selection and adaptation of the different types of harnesses to the patient's needs and their correct use requires the presence of personnel (assistants) who are expert and practical in the use and movement of this aid.- The expert assistant should evaluate from time to time both the seat belt adjustment that is most suitable for the patient and the height of the lift. - He or she should also always be informed about whether and how the patient is able to lift. It is also important to always observe the following safety precautions: - Fully read and understand the user manuals before using the hoist and slings - Plan the operations to be performed before starting to lift. - Always perform the daily checks described in the Daily Checklist (on page 19) - Always assess the individual situation of the patient to be lifted each time and adjust accordingly.

- Make sure the tourniquet is the correct size and capacity for the patient. - Never use a damaged, worn, or frayed seat belt. - Use a suitable harness and attach it following the instructions in the manual. - Do not use seat belts other than those provided by the manufacturer of the assistive device. - Avoid rocking the suspended patient as much as possible.

**DO NOT USE THE EQUIPMENT UNLESS YOU HAVE THE NECESSARY SKILLS, SAFETY, AND INSTRUCTIONS FOR USE.**

**WE RECOMMEND USE ONLY BY AUTHORIZED AND PROFESSIONALLY TRAINED PERSONNEL.**

**ANY MISUSE IS STRICTLY PROHIBITED!**

**GENERAL TROUBLESHOOTING TABLE**

Below are some signs of possible anomalies



*against any misuse or abuse or normal wear and tear. !*

*If the elevator does not work:*

- Check that the control panel cables are properly connected to the lift truck. - Check that the battery pack is correctly connected to the control unit. - Check the correct charge status of the batteries using the display on the control unit. *If the batteries are not charging:* - Check that the charger is correctly connected to the wall outlet and to the battery.- Make sure that the wall outlet is powered by 220 V. - If, after charging for 14-16 hours, the batteries are still discharged or only allow a few lifting cycles, contact Vassilli s.r.l. authorized support. *If the problem persists despite checks and verifications, do not use the manual and contact the Vassilli Assistance Center immediately.*

The operator is obliged to perform a number of simple daily checks, even if no use is required. These checks are as follows:

- check the integrity of the seat belts, which must not have any tears, rips or frayed fabric threads.
- check that the lift structure is free of damage and oxidation
- check that the batteries are always 100% charged
- check that the battery charger is in good working order
- check that electrical operations are optimal
- check that sliding moving parts do not make abnormal noises or squeaks. If not, perform maintenance and lubrication.
- Check that the lift and belts do not require cleaning or disinfection. Otherwise, take immediate action.



If you have any doubts or encounter any unusual situations, do not hesitate to contact the support center for immediate verification and possible replacement of parts.

## PERIODIC INSPECTION

To ensure safe use of the lift over time, it is necessary to carry out periodic inspections, focusing in particular on the structure of the lift and the lifting system, to check the integrity of the ties, fasteners, safety devices and the support housing (harness).

This inspection must be carried out by a qualified person familiar with the use, purpose and maintenance of the device.

Each annual inspection must be documented in the appropriate records. If a periodic inspection reveals a problem that may endanger or compromise the safety of the patient, the owner or the authority responsible for using the lift, it must be reported immediately and the assistive device must be discontinued until the problem has been corrected. A report of each inspection must be sent immediately to Vassilli S.r.l. to facilitate the necessary corrective or modification actions.

**PROTOCOL OF ANNUAL PERIODIC INSPECTION:** The European standard (EN/ISO 10535) also stipulates an annual inspection of patient lifts. It is the responsibility of those responsible for the care to ensure that these inspections of the product are carried out.



Structural checks:

- Check the harness for tears or fraying.
- Make sure that the harness fasteners are not damaged or sewn shut.
- Check that the entire perimeter of the harness is "like new".
- Check the rotating elements, hinges, bolts, and welds for wear and tear.
- Check the frame for wear, tilting, or deformation that is different from the conditions in which it was placed on the market.
- Make sure that the frame paintwork is free of cracks that could indicate deformation or oxidation of the structure near the welds.
- Check for proper maintenance and cleaning.
- Electrical and electronic parts checks:
- Check that all wires of the electrical system are intact, without kinks or breaks.
- Check the functioning of the lift unit (LEDs should light up correctly when the lift is in motion and the battery is low).
- Check the functioning of the push button control (check the buttons, LEDs, cable and connectors).
- Check the batteries for proper functioning.
- Check the charger for proper functioning (LEDs light up correctly according to the user manual, connectors are worn).
- Check the electrical components for proper fastening.
- Check the operation and power at maximum load\*.
- Check the operation of the emergency switch.
- Check the functioning of the manual emergency lowering system.
- (\*) The maximum load of the lift is indicated on the plate on the frame.



**Always observe the following simple safety precautions before and during use of the lift.**



- Please read and understand the user manual completely before using the lift and slings.- Familiarize yourself with the controls and movements of the assistive device and become comfortable with it before using it with patients.
- Plan the operations to be performed before starting to lift.
- Always perform the daily checks described in the Daily Checklist before using the lift.
- Always assess the individual patient's situation each time and make appropriate adjustments.
- Ensure that the patient's weight is compatible with the maximum load capacity of the lift.
- Ensure that the tourniquet is the correct size and capacity for the patient.
- Never use a sling that is damaged, worn, or frayed.
- Use a suitable harness and attach it following the instructions in the manual.
- Do not use seat belts other than those provided by the manufacturer of the assistive device.
- Avoid injury by paying maximum attention during all transportation operations.
- Do not use the elevator if the shower is open.
- Do not use the lift in swimming pools, saunas, or areas with high humidity.
- Do not charge the batteries in the bathroom or in damp areas.
- Never completely discharge the batteries; always keep them charged even during periods of inactivity.
- Do not leave the lift unattended; and take appropriate measures to prevent children or unauthorized personnel from using the lift.

**DO NOT USE THE LIFT WITH A PATIENT UNLESS YOU HAVE THE NECESSARY SKILLS, SAFETY, AND INSTRUCTIONS FOR USE.**

**WE RECOMMEND USE ONLY BY AUTHORIZED AND PROFESSIONALLY TRAINED PERSONNEL. PLEASE EXERCISE EXTREME CARE WHEN ASSISTING CHILDREN OR PETS. ANY MISUSE IS STRICTLY PROHIBITED!**



**WARNING: IT IS VERY IMPORTANT THAT YOU READ THIS INFORMATION REGARDING THE POSSIBLE EFFECTS OF ELECTROMAGNETIC INTERFERENCE FROM YOUR ASSISTIVE DEVICES.**



### **ELECTROMAGNETIC INTERFERENCE FROM RADIO WAVE SOURCES**

ELECTRONIC ASSISTIVE DEVICES MAY BE SUBJECT TO INTERFERENCE FROM ELECTROMAGNETIC ENERGY EMITTED FROM SOURCES SUCH AS RADIO, TELEVISION, AMATEUR RADIO, TRANSMITTERS, TWO-WAY RADIO, AND CELLULAR TELEPHONE. INTERFERENCE (FROM RADIO WAVE SOURCES) MAY CAUSE UNINTENDED COMMANDS AND MOVEMENTS TO THE ELECTRONIC ASSISTANCE. INTERFERENCE ENERGY INTENSITY IS MEASURED IN VOLTS PER METER V/m. EACH ELECTRONIC ASSISTANT CAN COUNTER ELECTROMAGNETIC INTERFERENCE UP TO A CERTAIN LEVEL: THIS LEVEL IS CALLED THE "IMMUNITY LEVEL", THE HIGHER IT IS, THE GREATER THE PROTECTION. CURRENT TECHNOLOGY IS NOW ABLE TO REACH IMMUNITY LEVELS OF 20 V/m, WHICH SHOULD PROVIDE USEFUL PROTECTION AGAINST THE MOST COMMON SOURCES OF ELECTROMAGNETIC RADIATION. THERE ARE 3 TYPES OF SOURCES IN THE DAILY ENVIRONMENT THAT PROVIDE ELECTROMAGNETIC FIELDS OF RELATIVE INTENSITY THAT ARE INEVITABLY RADIATED AND ARE CLASSIFIED AS FOLLOWS.

#### **1) TWO-WAY TRANSCIVERS WITH AN ANTENNA MOUNTED DIRECTLY ON THE TRANSMITTING UNIT: EXAMPLES INCLUDE: CB RADIO, WALKIE-TALKIES, POLICE, FIRE, SECURITY TRANSMITTERS, CELL PHONES AND OTHER PERSONAL COMMUNICATION DEVICES.**

NOTE: SOME CELL PHONES AND SIMILAR DEVICES TRANSMIT EVEN WHEN NOT IN \*USE.

#### **2) LONG-RANGE TRANSMITTERS AND RECEIVERS: THESE INCLUDE, FOR EXAMPLE, ANTENNAS ON POLICE CARS, AMBULANCES AND TAXIS, I.E. TRANSPORTATION VEHICLES THAT TYPICALLY HAVE AN ANTENNA ON THE OUTSIDE OF THE VEHICLE.**

#### **3) LONG-RANGE TRANSMITTERS AND RECEIVERS: SUCH AS RADIO, TELEVISION AND AMATEUR RADIO ANTENNAS. \*\*NOTE: OTHER DEVICES, SUCH AS HAIR DRYERS, ELECTRIC SHAVERS, CD RADIO FM/AM SYSTEMS, DO NOT CAUSE PROBLEMS WITH ELECTROMAGNETIC INTERFERENCE TO YOUR AUXILIARY SYSTEMS.**

#### **WARNINGS:**

**BY OBSERVING THESE WARNINGS, YOU CAN REDUCE THE POSSIBILITY OF ABNORMALITIES:**

- 1) WHEN THE ELECTRONIC AIDS ARE ON, DO NOT USE TWO-WAY CELL PHONE, CB,
- 2) FIND OUT ABOUT THE RADIO SOURCES NEARBY AND AVOID BEING CLOSE TO THEM.
- 3) PLEASE PAY ATTENTION, THAT ADDITIONAL ACCESSORIES OR ELECTRONIC/ELECTRONIC COMPONENTS MAY MAKE THE EQUIPMENT MORE SUSCEPTIBLE TO ELECTRONIC INTERFERENCE
- 4) REPORT ANY INCONVENIENCE CAUSED BY UNINTENTIONAL MOVEMENT TO THE ELECTRONIC ASSISTANCE MANUFACTURER AND PAY ATTENTION IF THERE IS A RADIO SOURCE IN THE VICINITY.



**MECHANICAL PARTS:** As for the moving mechanical parts (joints and connections) of the lift, they must be lubricated periodically and, depending on the more or less intensive use and if necessary, inject a small amount of grease between the pin and the location of each joint.

**FRAME:** Clean the frame and moving parts periodically, depending on the more or less intensive use and as needed, with neutral detergents or water mixed with alcohol. Do not use abrasive, aggressive or phenolic cleaners. Do not pour liquid products on electrical components. Dry thoroughly after cleaning.

**CLEANING AND DISINFECTING THE ROW:** Periodically, depending on more or less intensive use and as needed, completely clean and disinfect the belt fabrics with:

- - 40° water mixed with neutral soap, or
- - 40° water mixed with 50% alcohol.
- If necessary, you can use 40° water mixed with a maximum of 1% chlorine.
- After cleaning, let it air dry.

Do not iron the tourniquet and keep it away from heat sources!

When cleaning the harness, always check its integrity.

To get any technical or usage information, one of our specialists is at your disposal by calling from Monday to Friday from 08:30 to 12:00 and from 14:30 to 17:30 at 0498798911



Disposal of the aid and its components must be in accordance with applicable national legal regulations. Packaging, metal parts, plastic components, and electrical and electronic components must be recycled and disposed of in accordance with the regulations of the local municipal administration. Batteries must be disposed of in accordance with applicable national laws and regulations and in accordance with the local municipal regulations. For information on separate waste collection and the company responsible for disposal, contact your local municipal authority.

Caution, do not release into the environment!

The tags attached to the frame show the data of your aid.

The serial number, batch, year of manufacture and the aid code are indicated:



Button panel label

Ceiling hoist labeling: data and specifications from the component manufacturer

**WARRANTY:**

The warranty period from the date of delivery of the ceiling hoist is 12 months.

During this period, VASSILLI S.r.l. undertakes to replace or repair, free of charge, those parts that prove to be defective during production, paying in full the labor costs incurred and provided that one of our qualified technicians confirms that the malfunction is not the result of a defect in use. Reinstatement of the aid will be made at our office, so any returns must be shipped FREE of charge.

VASSILLI S.r.l. will return the recovered aid to the Client. TRANSPORTATION is the responsibility of the owner of the aid and therefore the costs and risks of transportation, as well as any necessary packaging. Any repair or restoration under warranty must be carried out by our authorized dealers.

For the resolution of any disputes, the sole competent court is the PADOVA court.

Damage caused by: misuse, modifications without prior authorization, catastrophic events, or vandalism is not covered by the warranty.

The products supplied by us must not be modified. Any modification, including the installation of unknown spare parts or accessories, may render the product unsafe and may void any safety labeling and warranty. VASSILLI s.r.l. assumes no liability for modified products or any damage or injury resulting from the modification.

The negligent performance of scheduled and unscheduled maintenance work exempts the company from any liability.

Date of registration: \_\_\_\_\_ Date of sale: \_\_\_\_\_

**MANUFACTURER'S NOTES**

*DEALER'S STAMP*

Item

**No. of lot/year**

Series no.