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2 WARNINGS

2.1 General warnings

- The instruction manual is an integral part of the product must be carefully preserved and stored in an accessible place for quick referencing.
- The manual is intended for users of the machine, the owner, and those in charge of safety and maintenance operations.
- The manual provides instructions on the proper use of the chair, its technical characteristics and safety recommendations; this manual, however, can never substitute for adequate user experience and training.
- If any damage due to transport is noted upon delivery, do not use the chair; contact Technical Support so the chair can be inspected and serviced if necessary.
- The device must be used by those who are physically able to control the its entire weight or the person being transported.
- The operator must be completely familiar with and fully understand the contents of this manual.
 - Before each use always check that the functional parts, the brakes and all safety mechanisms are working properly.

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- The operator must always keep both hands firmly on the

 handlebar.
- The device must be used observing the following rules:
 - the operator must be over the age of 18.

- during movement, the passenger must sit in a completely upright position, with shoulders and head up against the chair back.

- do not use the aid to transport items different than those intended.

- the person being transported must not hold different objects or heavy items.

- the operator must never leave the aid unattended with a passenger in it.

- do not use the aid to transport items different than those intended.

- the person being transported must not hold different objects or heavy items.

- the operator must never leave the aid unattended with a passenger in it.

- do not use the aid on rough surfaces.

- The device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or who are lacking in experience or knowledge, unless there is person responsible for their safety present or unless they have been specifically instructed on the chair's use.
- The operators and those being transported must not smoke in order to prevent damage or risk of fire with respect to clothes, upholstery or other people.
- Those operating the wheelchair must always keep both hands on the handlebar to ensure constant control.
- Assembly and adjustment operations must only be carried out by authorised personnel.
- Never lift up the wheelchair when there is a passenger in it..
- The aid is intended for use in residential areas or similar, however indoors.
- The device cannot be used in areas subject to splashing water or critical and unfavourable weather conditions
- The operator and the passenger must be careful not to wear long scarves or loose clothing; these may get caught in the device and cause dangerous situations.

OPERATOR

V@\A\$i^ç&&^A`@(``|å\A\$i^A@ee)å|^å\A[}A`cæa#•A\$i^A\$@(!•^Á; @(A@eeç,^ à^^}A`]^&ãabae||^As'æaji^å\&i^A\$u^A\$i^ae/\ The operator must always be on board machine; so the stair chairs must not be used in a different way, for example when the operator is down, otherwise the operator, the person being transported and the machine may be in danger.

Wheelchair

The adjustments and settings of the stair chairs depend on the wheelchair construction.

Even the type of wheelchair used will be determined during the operator certification.

Should the wheelchair be replaced, directly contact the manufacturer or his authorized representative before using it.

 Never approach a staircase if the passenger is not in a fully upright position, or the position of movement (see USE chapter).

If the passenger is not able to sit in an upright and stable position, use specific seat belts to secure the passenger to the backrest.

- Before ascending or descending the staircase, verify the characteristics of the stairs:
 - they must not be covered by rugs or fitted carpeting
 - they must not be unstable or unfinished, but compact
 - they must not have irregular, broken or collapsed edges
 - they must not be wet or slippery.

Handling on landing

When the mechanical drive is stopped and the service wheels are working, the device with the person being transported is driven solely by the operator who must control the whole unit by hand (stair chairs + wheelchair + passenger). The operator shall check his ability to perform these manoeuvres with preliminary tests on a level floor.

Spiral staircases

The device **cannot** be handled on closed spiral staircases.

Stair climber operating key

The stair climber can only be operated if the key is inserted; this protects the device and people from reckless use by unqualified personnel.

V@A[]^¦æe[¦ÁaārÁ^•][}•ãa|^Á[¦Ás@A^^Áæ}åÁaērÁs[]^LÁs@Á |æec^¦A[`*•o£a^Á^]oÁajÁsaÁ*æ^A[|æst^Åjão@ajÁ^æst@a[}|^A[-Ás@Á []^¦æe[¦

- The aid was verified against magnetic field emission (electromagnetic compatibility). When it is used for the first time you must ensure that there is no interference with any other medical equipment if used by the passenger.
- Before connecting or disconnecting the handlebar from the machine unit ensure that the key is in OFF position. If the wheel is removed or coupled with the key into ON position, the electric contacts are energized with consequent hazard to people, batteries and electronic circuit.
- The aid must be kept out of the children's reach. The closeness of the children and their action on the aid can be hazardous to the children themselves, people and the aid.
- Park the aid in a protected area and take out the key.
- The operator should first use the device without anyone on board in order to gain the maximum safety and handiness, particularly during the operations of going up and down the stairs.

When putting into gear while climbing check the proper slope indicator:

if the bubble lies within the green area you can proceed; the slope of stairs is below 35°. **if the bubble lies between the green and red areas** the position is critical, the slope is at its maximum allowed limit; you can start climbing very carefully.

- if the bubble lies within the red area it is forbidden to proceed.
- During a risk factor always push the emergency button: the vehicle stops.
- The operation may be reset by turning the button head in the direction indicated by the arrows.



Only wear closed shoes Do not wear shoes with heels or slippers

During stop on stairs

- To ensure the maximum stability, if possible, stop- the vehicle when the front of tracks cover the lower step and anyway the most of steps.
- Always remove the key from the control panel when the stair chairs are not working.
 Keep carefully the second key but put it in a place within easy distance if necessary.
- Use the stair chairs only on straight stairs and with level landing, having room enough to operate (see cha. 6)

Do not use the stair chairs on landings with wedge stairs or spiral





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•

staircases

2.2 Pictograms

The following pictograms may be present on the wheelchair or in this manual.

Read the instructions manual	Varning, danger
Operations which must be carried out by qualified per- sonnel or the service centre	Risk of crushing fingers in the mechanical transmission
Attention! Important information	Electrical hazard
i Information	Danger: Accumulator
Operations to be carried out by two people	Ban on using open flames at less than 1 metre from the machine
Compulsory use of the seat belts	Only wear closed shoes
Use of protective gloves	Do not wear shoes with heels or slippers



BALANCE POINT It refers to the point where masses are balance.



Laser diode to shows balance point of masses

The location of the balance point of masses is shown by a laser diode system installed on machine. This kind of system give to the user a direct view of the exact point where to start tilt the machine approaching the statrcase.

At the end of the climb

Stop the running and then pull the handlebar to position the stair chairs level.

Before starting to go down

Carefully lift the wheel to position the stair chairs downward.





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The manufacturer reserves the right to changes to the product and its instructions manual without prior notice or updating of previous productions.

The manufacturer is not liable for damage resulting from improper use of the wheelchair by untrained or unauthorised personnel, unauthorised modifications and interventions, the use of unauthorised parts, exceptional events, or total or partial failure to comply with the instructions in this manual.

3 UNPACKING



When a trolley is used to move the packaged product, use caution to avoid injuries caused by tipping.



Open the package and remove its content taking care not to damage it.

Once the product is completely unpacked, check to make sure it is not damaged.

Any damage noted must be reported to the carrier within 24 hours.

• Keep the packaging for possibly use it in the event of shipment of the appliance; otherwise, if necessary, repack it in the same way.



3.1 Environmental protection recommendations

The packaging materials are 100% recyclable. For proper disposal, refer to local regulations in force. The packaging materials (plastic bag, polystyrene filling, etc.) must be kept out of the reach of children as they are a potential risk.

Pursuant to Art. 13 of Directive 2002/96/EC on waste electrical and electronic equipment,.



The symbol of the crossed-out wheeled bin on a machine or its packaging indicates that at the end of the product's life it must be collected separately from other waste.

The separate collection of this equipment that has reached the end of its useful life is organized and handled by the manufacturer. Therefore users who wish to dispose of this equipment must contact the manufacturer and follow the system that the manufacturer has adopted for the separate collection of the equipment that has reached the end of its life.

Proper separate collection for the subsequent recycling, treatment and disposal of the disused equipment in a manner compatible with the environment helps avoid possible negative effects on health and the environment and contributes to the reuse and/or recycling of the materials used to make the equipment. Illegal dumping or other improper disposal of the product by its owner shall result in the application of the penalties provided for by the laws and regulations in force.

For further more detailed information about treatment, recovery and recycling of this product, please contact the appropriate local office about the law in force.

4 SYSTEM DESCRIPTION

The LG2004 stair chairs allow transporting a wheelchair with a disable passenger 2 on the stairs of a building due to a particular electromechanical system capable of crossing 1 steps.

The movement is continuous and performed by the operator using the control push buttons on the handlebar.

1 Handlebar

2 Motorized base







The motorised base can be lifted only by two persons, as described in the paragraph 8.9 concerning the loading of a motor vehicle



- 11 Emergency button
- 12 LIFTING push button
- 13 Handlebar release
- 14 Upper handlebar hook safety

- 25 Wheelchair support
- 26 Lower handlebar release

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(*) The device cannot perform the stair climbing functions without the key or with the key in the 0 (OFF) position

The emergency button 11 must be used only under certain failure conditions, or when the drive system should remain in motion even by releasing the UP and DOWN buttons.







- 30 Handlebar hook safety31 Fork clutch
- 32 Connection shaft

- Activation key of stair chairs function If the key is disconnected or in 0 (OFF) position no electric function is enabled. Battery charge indicator (see chapter "battery charge") Aid back and forward button 1
- 2
- 3





- 33 Electric contacts handlebar side
- 34 Electric contacts motorised base side35 Safety belts





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5 ASSEMBLY

1

The device is supplied disassembled into two parts: motorized machine unit and handlebar.

5.1 Handlebar assembly

• Take the handlebar complete with safety belts and, carefully, place it on the motorised base, near the clutch shaft **A**.

Caution Do not try to engage the handlebar on the rear shaft since the electric contacts may be damaged.



The handlebar is engaged but not locked

• While the handlebar is in up position, lower the safety lever S and then the handlebar until it is engaged.



Μ

Α

- 0
- Operations which must be carried out by qualified personnel or the service centre
- Now lift the safety lever S until it stops.
 - If the safety lever S is not positioned correctly the stair chairs working is disabled
 - The safety levers S (upper) and S1 (lower) are connected to each other by means of a flexible rope; the movement of one lever also produces a relative movement on the other
- The lower lever S1 must only be used when the upper lever • S does not work properly for some problems; during the normal operation use only the upper lever S.

The handlebar is engaged and locked





5.2 Handlebar disassembly

ceeding

• Lower the safety lever S this lever must remain lowered until the next handlebar engagement



Lower the unlocking lever L • and thus place the handlebar **M** into vertical position.





S

0

The unlocking levers L (upper) and L1 (lower) are connected to each other by means of a flexible rope; the movement of one lever also produces a relative movement on the other

The lower lever **L1** must only be used when the upper lever **L** does not work properly for some problems; during the normal operation use only the upper lever L.





The handlebar includes many mechanical and electrical devices which are very delicate. The handlebar removed from its motorised base must be put in a safe place and protected from accidental falls



5.3 Wheelchair hook setting

The wheelchair must be inspected and approved by the technician in charge of the manufacturer of stair chairs

 The operations can be performed without the passenger on board.
 The stair chairs must be lowered (tracks in contact with the

floor).Open the wheel supports A.

• Move the wheelchair to the position shown, with the rear





Operations which must be carried out by qualified personnel or the service centre





- Pull the knob **P** and open the wheelchair locks.
- Loosen the knobs **K** and move the wheelchair locks outwards.
- Pull out the knobs **B** with springback and rotate them to lock them in the open position



· Release the handlebar and lift it until it is in contact with the wheelchair.



- Pull the knob E and adjust the height of the wheelchair hook system until the crossbar T is in contact with the wheelchair handles. Move the system until you hear a click: safe locking click.
- Together with the height you shall adjust the wheelchair locks by putting the plates P in contact with the wheelchair backrest frame. Consequently pins Q will be inside the frame.
 Each wheelchair handle will be placed between the pins Q and plates P.
 Tighten the washe K foretro.
- Tighten the knobs **K** firmly.





Operations which must be carried out by qualified personnel or the service centre

• Release the knobs on both right and left sides so as to firmly lock the wheelchair.





• In order to use the stair chairs with the passenger on board refer to the USE chapter.

5.4 Wheelchair release

To release the wheelchair from the stair chairs:

- Lift the handlebar
- Open and lock the knobs B in an open position
- Take out the brakes of the wheelchair.

5.5 Adjusting the headrest

• Loosen the knob **U** and adjust the position of the headrest, then tighten the knob.







Operations which must be carried out by qualified personnel or the service centre

5.6 Mounting and adjustment of the ramps on LG2004/150/A008







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Operations which must be carried out by qualified personnel or the service centre













6 TECHNICAL CHARACTERISTICS

6

For data not indicated in this section, see the serial number plate affixed to the equipment

6.1 Dimensions







6.2 Technical data table	LG 2004	LG 2004/150	LG 2004/150 5 \$\$,
Total weight of the device	58 kg	59 kg	84 kg
- Weight of the base equipment	46 kg	46 kg	46 kg
- Weight of the handlebar	12 kg	13 kg	38 kg
Max load	130 kg	150 kg	150 kg
Power installed(traction+lifting+auxiliary)	<i>(300+40+30)</i> W	(300+40+30)W	(300+40+30)W
Maximum dimensions	144 x 67 x 99 cm	144 x 67 x 99 cm	144 x 83 x 99 cm
Minimum stair width	77 cm	77 cm	93 cm
Minimum dimension of the landing stairs ("L"shape)	98 x 98 cm	98 x 98 cm	120 x 130 cm
Minimum dimension of the landing stairs ("U"shape)	98 x 170 cm	98 x 170 cm	120 x 240 cm
Maximum sloping of the stairs	70%=35°	70%=35°	70%=35°
Maximum speed (stairs/min) (with charged battery)	15	15	15
Power battery	12V. 26 Ah	12V. 26 Ah	12V. 26 Ah
Battery-charger supply voltage	100÷240 V 50-60 Hz	100÷240 V 50-60 Hz	100÷240 V 50-60 Hz
Average duration of battery charge (floors) (ref. person weighing 80kg)	27	27	27
Average duration of battery charge (floors) (ref. person weighing 130kg)	22	18	12
Autonomy with charge indicator in reserve (floors)	4	4	4
Battery charging time (hours)	8	8	8
Storage temperature with packaging (in dry environment)	-10 ÷ 50 °C	-10 ÷ 50 °C	-10 ÷ 50 °C
Temperature range in place of use	0 ÷ 40 °C	0 ÷ 40 °C	0 ÷ 40 °C
Packaging dimensions	116 x 60 x 43 cm	116 x 60 x 43 cm	116 x 70 x 50 cm
Total weight with packaging	75 kg	76 kg	101 kg
A-weighted sound pressure level	< 70 dB	< 70 dB	<70 dB
VIBRATIONS: at the hand-arm system at the whooly body	<2,5 m/s² <0,5 m/s²	<2,5 m/s² <0,5 m/s²	<2,5 m/s ² <0,5 m/s ²

6.3 Characteristics of staircase









7 MANUFACTURER'S INTENDED USE



INTENDED USE

Daily use of the device is authorised only if all the safety components and parts are working properly.

The aid is intended for use in residential areas or similar, however indoors.

The aid must be used only to transport the wheelchair inspected by the person responsible who issued the qualification for handling the vehicle on stairs.

The aid can be used only on flat surfaces and stable bottom.

It is only intended for use as described in this manual; therefore, it is recommended that you carefully read these instructions to gain maximum familiarity and understanding of the chair's operational functions.

INTENDED PURPOSE

The aid must only be used for transporting wheelchair with people unable to walk.

PRECAUTIONS FOR USE

- It cannot be used by persons (operators) who have not thoroughly read and understood the rules provided in this manual.
- It cannot be used by operators with a slight physical build or who are not able to handle the total mass of the device.
- The device cannot be used in areas subject to splashing water or critical and unfavourable weather conditions.
- It must not be used in any case in which the principles described in Chapter 2 are not respected.
- It must not be used if any faults are noted: these may cause unpredictable, dangerous situations.
- It cannot be used by people who are under 18 years of age.
- It must not be used with wheelchairs different than the one inspected by the person responsible who issued the qualification to the operator.
- It is forbidden to use it if the staircase slope is more than 35 °.

RESIDUAL RISKS

If the necessary safety precautions described in this manual are not followed

- · Risk of crushing the feet of the operator.
- Risk of crushing the feet while lowering the lifting wheels.
- Risk of crushing due to the manual handling of the machine unit.
- Risks due to handling.
- Risks relating to the battery charge operations.
- Risk of explosion or fire during the battery charge.
- Risk of musculo-skeletal disorders if precautions for handling the machine unit are not taken.
- Risk of entanglement if clothing is long and gets caught in the lower part of the aid.
- Risk of fall of the passenger if he is not secured in a stable and upright position.
- · Risk of fall if the mass being transported (passenger + wheelchair) exceeds the pre-set limits (see technical specifications).
- Risk of fall if the aid is not operated properly.
- Risk of fall if the aid is operated on stairs with carpets or moquette or wet or slipping stairs.
- Risk of fall if, in an emergency (aid locked on a staircase), the operator was not able to assess the risk due to the illness of the passenger and the environmental conditions and did not ask for help in a critical condition.
- Risk of fall because of a human error if the operator is not enabled.

8 USING THE DEVICE



8.1 Charging the battery



Under fault conditions batteries may leak; in case of liquid, this can be dangerous. Immediately dry with a cloth using protective gloves. In case of contact with skin, immediately wash with plentiful water. In case of contact with eyes, rinse with water for at least 10 minutes and then contact a physician.

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8.2 Stairs sloping control

Check the stairs sloping

Caution! Before climbing the stairs for the first time, ensure that their slope falls within the set parameters

- maximum slope 35° (is equivalent to a 70%

slope)

If the stair slope is unknown, it is necessary to take the measurements checking the slope to degrees (by using a ruler or goniometer) or detecting the height rise over a length of 100 cm (it must be 70 cm max).



Slope control using the bubble inclinometer

Climb the stairs without passenger and wheelchair to check the correct slope through the inclinometer. When the whole track is on the stairs, check the inclinometer and carefully comply with the following instructions:



8.3 Everyday use

Every day, when the operator is about to use the aid, he must always check the following points:

- · Battery status.
- If the battery is low, recharge it immediately.
- Features of the safety components: emergency button, slope indicator
- Position and stability of the handlebar, its proper anchorage.
- Position and stability of the wheelchair; no fastener must be loose or in an unsafe location so as to ensure the correct wheelchair anchorage.
- Status and functionality of safety belts.
- At the end of each operating cycle, turn the key to OFF position and remove it from the aid; the companion is responsible for the key.

8.4 Moving the motorised base

The motorised base can be moved even without handlebar by pressing the double button on the control panel.

This button is intended for a limited use, or to perform small movements and easier the loading of the aid on a vehicle.

(-) forward movement

(=) backward movement. When moving back make sure you are not hit by the aid itself.

8.5 Hooking the wheelchair

- Press the "LIFTING" button L so as to easily handle the stair chairs on the floor.
- Open the wheel supports.



• Place the stair chairs under the wheelchair and thus press one of the "FORWARD " or " BACKWARD" buttons to automatically reposition the stair chairs on the floor and in a firm position.









- Activate the wheelchair brakes.
- Hook the wheelchair as described in the chapter 5.



- Check that the safety belts are securely fastened and tight-• ened enough to ensure the passenger stability.
- Turn the handlebar towards you until it hooks firmly. •
- Always check the proper handlebar anchoring before pro-• ceeding.
- Place the safety lever S upwards, otherwise the stair chairs will not respond to commands.









Protection system against the unintentional pushing on the emergency button

Welded on rudder has been introduced a system to avoid the unintentional pushing of emergency button. This system protect user from unintentional stops of machine along staircase



8.6 Handling on stairs

The operator and the passenger must be careful not to wear long scarves or loose clothing; these may get caught in the device and cause dangerous situations. EN

Only wear closed shoes

Risk of crushing fingers in the mechanical transmission

Never approach a staircase if the passenger is not in a fully upright position, (position of movement see USE chapter). Use the special seat belts to secure the passenger to the backrest.

Before and during movement, check the correct position of the person being transported.

Before ascending or descending the staircase, verify the characteristics of the stairs:

- perfect wheelchair anchoring and their fasteners are well locked (K knobs firmly tightened)
- stair slope _
- dimensions of the steps as described in Chapter 6. _
- they must not be covered by rugs or fitted carpeting
- they must not be unstable or unfinished, but compact _
- they must not have irregular, broken or collapsed edges
- they must not be wet or slippery.
- The vehicle must always be operated with particular and constant attention to both the person being transported and the using environment.

Handle the stair chairs on landing

Press the L "LIFTING" button. The stair chairs lift to allow manoeuvring. The stair chairs automatically lower when pressing one of the UP or DOWN buttons. Pay attention to the position of your feet during movement.

Temporary stop of stair chairs

In case of temporary stop of the stair chairs, it is advisable that a great number of steps are covered, this way the maximum stability is ensured.

Emergency stop

By pressing this button the traction motor stops directly. In the event of a malfunction concerning the failure to stop the aid when the motion buttons are released, press this button to stop the vehicle.

Restarting after an emergency stop

After eliminating the cause that led the operator to press the emergency button, release the button by turning the head in the direction indicated by the arrows printed on the same button.

Failure to the main motor system

In case of a failure that makes the stair chairs inactive when used on stairs it is necessary:

- Never unhook the wheel
- Try to ensure the maximum system stability
- Keep calm and ensure that the person being transported does not get anxious.
- Do not try to unhook the wheelchair
- Take the handle from the equipment and insert it in the point indicated; this way, though slowly, you will allow the stair chair to go up and down until it reaches the landing.

Before carrying out this solution, which requires the drive abandonment, the operator must assess if this operation is risk-free.

He must assess if the drive abandonment, even if it is monitored, may compromise safety; the operator must do this assessment according to the disease affecting the person being transported and the environmental conditions.

Otherwise the operation must be performed with the help of another person.

Failure to the lifting motor system

Because of this failure, the stair chairs cannot rotate and position easily on the landing; in such a case you should:

Insert the handle at the rear and rotate up to lift the tracks from the ground, just enough to position it.



Make sure the battery has sufficient charge to be able to perform the job required.



Compulsory use of the seat belts













8.7 To go up stairs

Approach

The operator may move the stair chairs closer to the staircase in two ways:

- a) by pressing the "INDIETRO" button .: The motor causes the stair chairs to stop while holding down the button
- b) Operating it by hand after pressing the lifting button. Near the stairs press the "INDIETRO" button , to lower the tracks to the ground.
- ٠ Move the tracks closer to the first step; both the tracks must touch the step.
- Make sure that the safety belts are securely fastened and there are not objects, clothes, shoes and parts of hanging clothes which may affect the stair chairs movement.

Ensure that there are not people or animals down the path on stairs and there are not free children who may accidentally interfere with the stair chairs movement

- Check that the emergency button is released, following the RESET instructions printed on the button itself.
- Ensure that the passenger has the seat belt fastened. •
- Check that the passenger is seated correctly.
- Do not transport objects of any kind.
- Place two steps above the tracks and during movement always keep an empty step between your shoes and tracks.
- hold the handlebar firmly to press the climb "INDIETRO" button 1: the stair chairs will climb towards you linearly and firmly.

S2

By releasing the button the stair chairs stop at any time.

- Continue to climb until you reach the landing.
- Stop the gear so that the balance point matches as much as possible with the step edge.







ASCENDING CYCLE (S1......S5)





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8.8 To go down stairs

Approach

- Check that the emergency button is released, following the RESET instructions printed on the button itself.
- · Ensure that the passenger has the seat belt fastened
- · Check that the passenger is seated correctly.
- Do not transport objects of any kind.
- Make sure that the safety belts are securely fastened and there are not objects, clothes, shoes and parts of hanging clothes which may affect the stair chairs movement.
- Press the "AVANTI" button **U** and straightly, take the stair chairs to the staircase and gradually put the aid out until the "Balance point" indicated on the base is nearly on the step edge.
- Stop the stair chairs on the balance point
- Firmly hold the handlebar and release the stair chairs which will rotate towards the staircase: you are ready for descent.

Ensure that there are not people or animals down the path on stairs and there are not free children who may accidentally interfere with the stair chairs movement.







Descent



8.9 Transport of stair chairs

The stair chairs can be transported by means of a vehicle having a sufficient loading surface: car, van, truck, in compliance with the following instructions.

The vehicle shall be braked and placed so as to allow for an easy and safe loading manoeuvre.



- Risk of crushing fingers in the mechanical transmission
- Use of protective gloves

Load the stair chairs by hand

- Move the stair chairs closer to the loading surface.
- Press the handlebar to lift the front up to the loading surface.
- When the front rests firmly on the loading surface, unhook the handlebar.



- Hold the stair chairs (one person in front and another behind) from the suitable handles
- After resting the stair chairs on the ground press the motion button to perform small movements.



9 ROUTINE MAINTENANCE

These operations can be performed by the user.

Any maintenance operations must be carried out with the battery charger disconnected from the stair chairs and with the key removed from the control panel.

The device requires routine maintenance as any other product in order to keep it in perfect working order, even after years of use. Remove food debris, hair and anything else that can accumulate, such as dust on a daily basis; a vacuum cleaner can be used for this.

The following table indicates the frequency with which maintenance must be performed. Constant checking should prompt the user to carry out necessary maintenance operations based on actual necessity.

Routine maintenance table

Frequency		
6 months	Cleaning the metal parts (ref. 9.1) Depending on use and necessity, clean the parts indicated	
	Pulizia delle parti in plastica (ref. 9.2) Depending on use and necessity, clean the parts indicated	
	Cleaning the wheels (ref. 9.3) Depending on use and necessity, clean the parts indicated	
	Cleaning the tracks (ref. 9.4) Depending on use and necessity, clean the parts indicated	
1 year	 General inspection check wheel functionality check track wear check brake system check that upholstery and padding is intact check that fastening screws are tightened check that tightening hand wheels of the various parts are intact check the controls on the electrical panel check the up / down buttons check the battery charger's cables and connector check that the plastic parts are intact 	
6 months	Battery Make sure the charging time of the battery is not too long; if it is, contact the authorised service centre	
upon each sale to third parties or recommis- sioning	Disinfection Attention! The use of disinfectants is reserved exclusively for authorised personnel who are adequately trained to use of these products The device must be disinfected by specialised centres in compliance with the provisions established by the competent health authorities. For additional information contact the authorised service provider.	

9.1 Cleaning the metal parts

The painted metal parts can be used cleaned with commercial sprays sold for household use, but they should not contain alcohol or solvents as these may cause discolouring or damage the paint itself.

The chrome parts can be cleaned with normal household products and then thoroughly dried. Do not use water jets or sprays.

9.2 Cleaning the plastic parts

Use a common commercial detergent for plastics to clean the plastic parts, and follow the instructions and warnings provided along with the product.

Do not use alcohol or solvent-based products. Do not use water jets or sprays

9.3 Cleaning the wheels

Rotate the aid completely on one side so that the handlebar rests on the ground; this way you can access the underside.

The wheel should be cleaned periodically, depending on the wheel type and the environment in which the wheelchair is used. Remove any solids from the surfaces that can become wedged in the wheel and any wires and hair that can become wrapped around the hub making rotation difficult.

Clean the brake wheel mechanism using a brush.

9.4 Cleaning the tracks - wear control

Rotate the aid completely on one side so that the handlebar rests on the ground; this way you can access the underside.

Remove the material and dirt that may be on the tracks.

Along with this operation also check the wear state of the chocks of the two tracks. If you find any damage including parts of missing chocks or wear beyond the set limits, immediately inform the assistance centre to replace the tracks





10 TROUBLESHOOTING

Operations which must be carried out by qualified personnel or the service centre

PART	PROBLEM	SOLUTION
Wheels	squeaking during movement	 clean the wheels replace ()
Commands	No electrical command is accepted; the battery is discharged	 Check the charge status of the battery and if necessary, recharge it. Contact the service centre
Battery	The battery is not charging normally; it takes too long or is not fully charged	 Make sure the battery-charger is working correctly Check the connection cables Contact the service centre
	The battery has a limited charge	Make sure the battery-charger is working correctlyContact the service centre
Ascending and descen- ding stairs	The systems slows when ascending	 Charge the battery Clean the ascent/descent mechanisms () Contact the service centre
	The command is not accepted - blown fuse - blown relay	replace the fuse ()
Back and forth commands	Commands are not accepted • The key is not in ON position • The emergency button is pressed • The handlebar is not properly inserted • The handlebar contacts are oxidized or damaged • The safety lever is not inserted on the handlebar • The fuse of 60A is burnt	 turn the key to I(ON) release the button check well the connection remove the handlebar and clean contacts check and insert well replace fuse (())
Hoisting equipment	Commands are not accepted • The key is not in ON position • The emergency button is pressed • The handlebar is not properly inserted • The handlebar contacts are oxidized or damaged • The safety lever is not inserted on the handlebar • The fuse of 15A is burnt	 turn the key to I(ON) release the button check well the connection remove the handlebar and clean contacts check and insert well replace fuse (())
Slope indicator	Slope indicator is disconnected or broken	Contact the service centre
Safety belts	They are not put correctly or are damaged	Contact the service centre
Traction system	Too much noise	Contact the service centre

If, after intervention, the aid still has a problem which limits its correct operation, even in part, the operator or person in charge of its use, must immediately contact the technical assistance centre or the manufacturer.

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11 SCHEDULED MAINTENANCE

After the warranty period the manufacturer studied a programme of scheduled maintenance in order to always ensure the aid performance.

The scheduled maintenance must only be performed at the authorized Assistance centres or at the production company. In order to know the nearest Assistance centres contact the manufacturer.



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All scheduled maintenance operations will be recorded by the assistance centre in the special form provided in the appendix to this use and maintenance manual.

This manual shall be delivered together with the machine and contain the operations performed.

Operations provided in the scheduled maintenance

- check tracks
- check electrical system
- check battery charger and cables
- check power buttons
- check emergency button
- check main motor
- check lifting wheels motor
- · check handling system of the lifting wheels
- check lifting wheels wear
- check safety levers wear
- check battery efficiency
- check wheelchair anchoring devices
- check the frame and wheel are intact
- check slope indicator
- check tracks and pulley
- check mechanical transmission system
- check headrest anchoring
- · check safety belts
- check electrical handlebar contacts / machine unit
- check and disinfection headrest and safety belts
- check control ropes
- check the machine body is intact

12 OPTIONAL ACCESSORIES AVAILABLE UPON REQUEST



ART. A006 Sliding blocks with rear wheels ø300





ART. A007 Sliding blocks for pushchairs





ART. A009 Anti-overturning safety system



ART. A010 Extention cable for oversized wheelchair







ART. A023 Standard hook



Scheduled maintenance operations

SCHEDULED MAINTENANCE	SCHEDULED MAINTENANCE
24 months	36 months
Stamp and signature of the assistance centre	Stamp and signature of the assistance centre
	Date

SCHEDULED MAINTENANCE	SCHEDULED MAINTENANCE
48 months	60 months
Stamp and signature of the assistance centre	Stamp and signature of the assistance centre
	-
Date	Date

SCHEDULED MAINTENANCE	SCHEDULED MAINTENANCE
72 months	84 months
Stamp and signature of the assistance centre	Stamp and signature of the assistance centre
Date	Date

SCHEDULED MAINTENANCE	SCHEDULED MAINTENANCE
72 months	84 months
Stamp and signature of the assistance centre	Stamp and signature of the assistance centre
Date	Date
EN 7	4

Special maintenance operations

Description of the operation	Description of the operation
Date	Date

Description of the operation

Description of the operation

Stamp and signature of the assistance centre

Description of the operation

Date

Date

Description of the operation

Stamp and signature of the assistance centre

Date

Date

The product is covered by a 24 month legal guarantee beginning from the date of delivery (legislative decree 24/2002) to the customer by Antano Group and CE Directive 1999/44), against any manufacturing defect.

During the guarantee period, wheelchair maintenance is carried out directly at the manufacturer's headquarters, fully paid for by the manufacturer, or at service centres located throughout the country.

The guarantee does not cover parts subject to wear due to their nature or destination. The guarantee is void in the following cases:

- improper use or use other than that specified in this use and maintenance manual;
- modifications, repairs or tampering by non-authorised personnel.
- the guarantee does not, in any circumstances, provide for compensation for damages.
- transport and packaging expenses for any products under guarantee which must be shipped are to be paid by the customer.

The guarantee does not, in any circumstances, provide for compensation for damages. Replacement parts are available for 10 years.

If the customer detects problems with the product, s/he must immediately notify the manufacturer or authorised representative in country and provide specific information regarding the defects found and citing the data listed on the nameplate affixed to the aid.

The customer, after coming to an agreement with the manufacturer or authorised representative, will send the aid for repair under guarantee.

During the guarantee period, technical intervention will take place at the manufacturer's facility who will also determine whether the technical problem is due to a manufacturing defect or some other cause.

This manual must be kept by the owner and remain with the wheelchair in order for the guarantee to be honoured.

The guarantee period starts from the date of delivery

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Sistema di gestione qualità certificato da KIWA CERMET ITALIA S.P.A. ISO 9001 : 2015