

OutCHAIR₃



CE



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HIGH-PERFORMANCE 4X4
POWER WHEELCHAIR

LOGO SILVER
EUROPE

CONTENTS

I.	INTRODUCTION	6
1.1.	ABOUT THIS MANUAL	6
1.2.	USE IN ACCORDANCE WITH THE INSTRUCTIONS	7
1.3.	LIABILITY	7
1.4.	INDICATIONS FOR REUSE	7
1.5.	UPKEEP	8
1.6.	CONTACTS.....	8
II.	SAFETY.....	8
2.1.	STANDARDS AND GUIDELINES	8
2.2.	DECLARATION OF CONFORMITY.....	9
2.3.	GENERAL SAFETY INSTRUCTIONS	9
2.4.	SAFETY REQUIREMENTS FOR TRANSPORTATION, STORAGE AND ASSEMBLY	10
2.5.	OPERATION AND SAFETY REQUIREMENTS.....	11
2.6.	MAIN SAFETY REQUIREMENTS FOR MAINTENANCE, CARE AND DISPOSAL	14
2.7.	USER REQUIREMENTS	15
2.8.	SAFETY FUNCTIONS.....	16
2.9.	WARNING PLATES AND NAMEPLATES	16
2.10.	ELECTROMAGNETIC COMPATIBILITY.....	16
III.	TECHNICAL CHARACTERISTICS.....	18
IV.	PRODUCT DESCRIPTION.....	19
V.	TRANSPORT AND STORAGE.....	20
VI.	DELIVERY AND SETUP.....	21
6.1.	DELIVERY	21
6.2.	INITIAL CHARGING AND SETUP.....	22
VII.	USAGE.....	22
7.1.	“OUTDOOR” DRIVING PROFILE	22
7.2.	“CROSSING” DRIVING PROFILE.....	23
7.3.	STEERING LOCK.....	24
7.4.	MANUAL MOVEMENT	25
7.5.	SETTINGS	26
7.5.1.	WHEELCHAIR SETTINGS.....	26
7.5.2.	DRIVING POSITION	27
7.5.3.	JOYSTICK POSITION.....	27

CONTENTS

7.5.4.	SEAT INCLINATION.....	27
7.5.5.	FOLDING THE RECARO BACKREST FOR TRANSPORTATION	27
7.5.6.	SHOCK-ABSORBERS.....	28
7.5.7.	TYRE PRESSURE.....	29
7.6.	TRANSFERING INTO THE CHAIR.....	30
7.7.	POWERING ON AND OFF.....	31
7.7.1.	ELECTRICAL SYSTEM PROTECTION	31
7.7.2.	FUSE.....	31
7.7.3.	POWERING ON.....	31
7.7.4.	POWERING OFF.....	32
7.8.	JOYSTICK CONTROLLER.....	32
7.8.1.	JOYSTICK.....	32
7.8.2.	JOYSTICK POWER SUPPLY	32
7.8.3.	RAIN AND WATER.....	32
7.8.4.	JOYSTICK CABLE	32
7.8.5.	CONTROLLER PROGRAMME.....	33
7.8.6.	USAGE PRECAUTIONS	33
7.8.7.	LCD JOYSTICK.....	34
7.8.8.	CJSM2-BT JOYSTICK (OPTIONAL).....	38
7.8.9.	LOCKING THE CONTROL SYSTEM	45
7.8.10.	SCREEN.....	46
7.9.	DRIVING ADVICE.....	47
7.10.	BATTERIES AND CHARGING	47
7.10.1.	BATTERIES	47
7.10.2.	CHARGING OF BATTERIES.....	48
7.10.3.	BATTERY BREAKING-IN	48
7.10.4.	CHARGING PROCEDURE.....	49
7.10.5.	BATTERY GAGE ON THE LCD SCREEN	50
7.10.6.	PUBLIC TRANSPORT.....	51
7.10.7.	BATTERY RECYCLING AND DISPOSAL	51
VIII.	MALFUNCTION AND TROBLE-SHOOTING	51
8.1.	DIAGNOSIS AND TROBLE-SHOOTING	51
8.2.	SOLVING COMMON PROBLEMS.....	52

IX. MAINTENANCE AND UP-KEEP	53
9.1. GENERAL RECOMMENDATIONS	53
9.2. CORROSION PROTECTION	54
9.2.1 CHIPPED PAINT	55
9.2.2 THE BEACH SALT WATER AND COASTAL ZONES	55
9.2.3 SNOW, ICE AND DIRTY ROADS	55
9.2.4 CLEANING AFTER USE	55
9.2.5 PREVENTATIVE MAINTENANCE	56
9.3. REGULAR CHECKS	56
9.4. WEEKLY CHECKS	57
9.5. MONTHLY CHECKS	58
9.6. ANNUAL TESTING	58
9.7. REPAIRING A TYRE OR AN AIR CHAMBER	59
9.8. REPLACING THE BATTERIES	61
9.8.1 REMOVING THE BATTERIES	62
9.8.2 REASSEMBLING THE BATTERIES	62
9.9. MALFUNCTION OF THE SEAT RECLINER	63
9.10. STEERING-LOCK MALFUNCTION	63
9.11. VEHICLE CLEANING	64
X. WARRANTY	65
XI. RECYCLING	66

I. INTRODUCTION

I.1. ABOUT THIS MANUAL

First of all, we would like to thank you for your confidence in our products. We hope that your new 4WD electric wheelchair will bring you a lot of satisfaction.

This Owner's Manual provides the user and attendant with all the necessary knowledge regarding the safety, use, construction, and maintenance of the OUTCHAIR. The operating manual contains information necessary for the safe use of this 2 or 4-wheel drive vehicle and provides information on how to identify the cause of possible malfunctions and how to eliminate them.

It is imperative that you read the contents of this user manual in order to use the OUTCHAIR in complete safety. The user and attendants must read this manual carefully before using the wheelchair for the first time. This ensures that the OUTCHAIR performs to its full capacity and in complete security.

If you have any questions or are unsure of whether your wheelchair is in optimal operating condition, contact your dealer.

Wheelchair users have very different needs. It is the exclusive domain of qualified medical professionals to decide which model is best suited to your particular needs.

We refute responsibility for damages resulting from failure to observe this user manual, improper maintenance or abnormal use. In general, our responsibility is limited to the replacement of defective parts.

Some adjustments and maintenance work require specialized technical training and must be performed by your dealer or an authorized representative.

This user manual has been developed based on standard NF EN 62079 User manual design - structure, content and presentation . It comprises 12 chapters.

Pictograms and warning terms:



DANGER !

Warning against possible physical hazards and death



WARNING !

Warning against possible material damage



NOTES

Important tips and information



ENVIRONNEMENT

Note on the protection of the environment

1.2. USE IN ACCORDANCE WITH INSTRUCTIONS

The OUTCHAIR is intended for the individual use of people with total or partial motor disability of the lower limbs, providing a safe driving experience for their independent movement outside the home.

The OUTCHAIR must only be associated with the features mentioned in this instruction manual and vice versa. Logo Silver, manufacturer of the OUTCHAIR, is not responsible in the case of use with medical devices and / or accessories not included in the list of options or from other manufacturers.

Only duly informed people should use the OUTCHAIR. Being informed of the correct operating procedures is one of the conditions which insures proper and safe use of the OUTCHAIR, while protecting people from potential hazards.

1.3. LIABILITY

The manufacturer is liable only if the operation, maintenance and care instructions and servicing intervals of the OUTCHAIR are correctly observed. The manufacturer expressly states that only parts authorized by the manufacturer may be used. Logo Silver refuses all responsibility for damages arising from the use of non-manufacturer authorized parts and/ or damage resulting from use not in accordance with the instructions.

This warranty is subject to French civil and commercial law.

1.4. INDICATION FOR THE REUSE OF THE PRODUCT

The OUTCHAIR has been designed to be reused.

As with all used machines or vehicles, reused products are subject to particular constraints. The modification of features and performance must not compromise the safety of people for the duration of the product.

The manufacturer has evaluated the duration of use of OUTCHAIR as between 6 and 8 years, provided that it is used in accordance with the instructions and that the indications for maintenance and upkeep are respected.

This duration does not take into account storage times with the manufacturer or the distributor. It should be noted that if the OUTCHAIR is maintained in accordance with the instructions, it remains reliable beyond the above defined period.

In order to be reused, the OUTCHAIR must first be thoroughly cleaned. Then, the condition, wear and damage of the OUTCHAIR must be checked by an approved specialist.

All worn or damaged parts and components that do not fit or are not suitable for the new user must be replaced from the authorised available options by LogoSilver.

1.5. UPKEEP

The maintenance manual contains a schedule of maintenance operations to be carried out for each model as well as detailed information and the list of necessary tools.



NOTE

The overhaul and repairs of the OUTCHAIR must be carried out exclusively by Logo Silver approved qualified personnel. In the event of a problem, please contact your distributor.

1.6. CONTACTS

For any questions about this material, please contact your reseller first:

Contact details of the manufacturer:

Logo Silver Europe, 163 cours Berriat, 38000 Grenoble, France

Email: contact@logo-silver.fr

II. SAFETY

2.1. STANDARDS AND GUIDELINES

All information relating to safety in this manual is subject to French legislation and provisions of the European Union. In other countries, please observe the applicable legislation and provisions.

The OUTCHAIR was manufactured in accordance with the current technical rules for safe operation. The safety of OUTCHAIR is certified by the CE marking - the declaration of conformity and approval according to the EN 12184 standard.

2.2. DECLARATION OF CONFORMITY

As manufacturer, Logo Silver declares under its own responsibility that OUTCHAIR complies with the essential requirements 93/42 and 2007/47 according with European directives medical devices.

The design, development and manufacturing of OUTCHAIR are fully safety compliant according to the following technical requirements:

- Risk analysis and management following NF EN ISO 14971 standards
- NF EN 12182 and NF EN 12184 design requirements

Dynamic stability, static stability, durability testing, load-bearing (static), advertising documentation, use and maintenance guide, labelling, defining of energy consumption, defining of speed, of acceleration and acceleration, ability to climb the maximum slope safely, the ability to surmount obstacles.

Compliance with standard NF EN 12184 means (among other things) that the values required for inclination, obstacle clearance and speed are reached or exceeded by the OUTCHAIR.

2.3. GENERAL SAFETY INSTRUCTIONS

- The OUTCHAIR may only be used in accordance with the instructions.
- Only duly informed and authorised people may use the OUTCHAIR.
- Only one person may use the OUTCHAIR at a time.
- For safety reasons it is recommended to wear a helmet and to attach the seatbelt.



DANGER !

Use the seat belt, if you do not have sufficient back-support, or you are on rough terrain.



NOTE

**All safety instructions contained in this user manual and in all valid associated documents must be observed and applied.
This manual must always be available to the user.**

- Do not use the wheelchair under the influence of alcohol, medication or stupefying products which restrict your driving ability.
- Do not lean forward, over the sides or over the upper edge of the chair, especially if the terrain is sloped.
- To transfer, get as close to the new seat as possible.

- Do not go out into isolated areas, or in poor atmospheric conditions unaccompanied or without means of meeting a trusted person.
- The backrest fabric and the cushion are not highly flammable but may nevertheless catch fire. The use of fire or a lit cigarette should be undertaken with extreme care.
- Changes in modes or profiles : exterior, interior, climbing, seat position, backrest, castors, footrest and low to high speed must be done while stopped.
- Check that the motors are engaged to allow the wheelchair to be started.
- Do not connect any electrical device to your wheelchair. Entrust the installation to your Logo Silver authorised distributor.



DANGER !

This chair has several moving parts driven by powerful cylinders. Be careful that people in your entourage are not hurt. Pay special attention, to the risk of crushing children's fingers.



WARNING !

Only original manufacturer components or options may be used. Optional components must be mounted as indicated below. Failure to comply with this recommendation results in loss of warranty.

2.4. SAFETY REQUIREMENTS FOR TRANSPORTATION, STORAGE AND ASSEMBLY

- The OUTCHAIR must be transported in Logo Silver approved packaging.
- While being transported in a vehicle, it must be secured with a sufficient number of straps.
- The OUTCHAIR must only be lifted by its chassis.
- Only hoists of sufficient dimensions may be used for transport.
- It is imperative to attach the chair with the use of straps to the three designated anchor points.
- While in transport the wheelchair should be turned off via the joystick and the engine brakes locked.

- It is forbidden to travel in the OUTCHAIR while it is being transported.
- Avoid loading the wheelchair into a transporter with its driver seated in the chair.



DANGER !

If the wheelchair must be loaded by its driver via a ramp, an attendant must stand near the chair to prevent tipping. When using a ramp, use a maximum speed of 3 km / h.



DANGER !

Do not use the electric wheelchair as a vehicle seat, as it does not meet ISO 7176-19 requirements.

- In order to prolong the life of your OUTCHAIR it should be stored in a dry environment with temperatures not exceeding 30 c nor below -5 c.
- After each adjustment or modification of settings made on the OUTCHAIR, the fastening screws and nuts must be firmly screwed in.

2.5. OPERATION AND SAFETY REQUIREMENTS

The user has an obligation to ensure, before each use, that the OUTCHAIR is in a safe condition and in accordance with instructions, including safety functions. The OUTCHAIR should only be switched on if all safety functions, such as brakes, are in working order.

- Do not travel on terrain that exceeds the limits indicated in the chapter pertaining to technical characteristics.
- Only one person at a time may use the wheelchair.
- The operating and safety conditions of the OUTCHAIR must be checked at least once a year by an approved specialist.
- The OUTCHAIR works exclusively at temperatures between -5°C and 30°C.
- The maximum load for the OUTCHAIR is 140 kg.
- Before each use, a visual inspection must be carried out to verify that tyre pressure and tread are sufficient (see tyre wear warning light).
- The wheelchair must be switched off during transfers.
- Do not cross obstacles greater than 4 cm while driving up or down slopes.
- The OUTCHAIR can drive up or down slopes of 10°.
- When driving down a slope greater than 5°, reduce the speed to 5km / h, avoid sudden braking, and incline the seat 10° back.

- When climbing a slope superior to 5° reduce the speed to 5km / h, avoid sudden acceleration, maintain a 0° seat inclination and the backrest as straight as possible.
- Do not drive the wheelchair on lateral slopes greater than 5°.
- 4-wheel drive being the exterior profile for most terrains, the “mounting” is only useful for crossing obstacles (footpaths for example).
- Maneuvering may only be affected at a reduced speed.
- Changes in mode, seat position, backrest, footrest, reduced and elevated speeds must be performed while stopped.
- Approach obstacles at a right-angle, moving forward.
- Never mount or descend an obstacle moving backwards.
- When crossing an obstacle (footpath for example), use the “crossing” mode, pass the front wheels slowly (2 km / h maximum). Follow the procedure in chapter 7.2. : «crossing” driving profile.
- If sloping ground presents a risk of sliding, stop the wheelchair before doing so, slipping risks putting the chair in a position that would prevent you from exiting the situation.
- The steering-lock is recommended for crossing obstacles, hilly terrain, or when you lack traction (skidding).
- When leaving the chair, avoid putting your full weight on the footrests. The wheelchair may tip forward, especially if the ground is on a slope.
- Do not leave your seat while on a slope.
- Do not leave the brakes disengaged on a hilly terrain.
- Electronics such as the joystick, the power module and the connections of the OUTCHAIR, are protected according to the IP54 degree of protection (protection against dust and some splashes) but may not, as a consequence, be used in bad weather conditions (example: in the event of rain).
- The OUTCHAIR may cause electro-magnetic disturbances to other other devices, which is why it is advised to turn off the OUTCHAIR while not in use.
- Changing the batteries may produce short circuits, these procedures are to be carried out with the chair switched off (joystick off).
- Verify the correct functioning of the front wheel shock absorbers.



DANGER !

Defective brakes can cause serious accidents and injuries that could endanger the life of the user.



DANGER !

In the event of detection of errors, faults or other dangers which may cause bodily harm, the OUTCHAIR must immediately be taken out of service.



DANGER !

It is forbidden to attempt climbs or descents of which the inclination is greater than 10 °.



DANGER !

Never attempt to use a staircase of more than one step.



DANGER !

Do not sit in, leave or park the wheelchair without having switched off the electrical system.
This avoids an involuntary functioning of the chair.



WARNING !

While in use, the OUTCHAIR must not be exposed at temperatures above 30°C or below 5°C.



WARNING !

The chair load must not exceed 140kg.



WARNING !

The ground clearance of 10 cm does not allow you to cross a stone, by example, higher than 10 cm in-between the wheels, as this may damage the chair bases.



WARNING !

If you need to brake in an emergency, simply release the control lever, this will bring the wheelchair to a stop.
If you brake by moving the joystick back or pressing press the on / off button, this causes a sudden and violent stop.

Concerning the tyres, please take into account the following remarks:

- OUTCHAIR tyres contain chemicals that can cause reactions with other chemical substances (example: cleaning products or acid).
- Direct exposure to sunlight (UV) accelerates aging of the tyres. The result is a hardening of the surface of the tyre tread which cracks at the edges.
- Regardless of the wear, the tyres must be changed every 5 years.
- Prolonged usage or strong heating of the tyres (if the OUTCHAIR is near a heater or exposed to sunlight through a window) leads to a permanent deformation of the tyres. Therefore, be sure to maintain a sufficient distance from heat sources.



DANGER!

Do not connect the positive and the negative of the batteries, or you risk exposure to burns.



WARNING!

Under no circumstance should you exceed a vertical angle of 20° for the backrest while moving.



WARNING!

Under no circumstance should you exceed a horizontal angle of 10° for the backrest while moving.

2.6. MAIN SAFETY REQUIREMENTS FOR MAINTENANCE, CARE AND DISPOSAL

- Maintenance of the OUTCHAIR must be carried out by Logo Silver approved, qualified personnel. This also applies to all repairs and adjustments. Incorrect adjustment may void the manufacturer warranty.
- The joystick must be switched off and the batteries disconnected for all work and maintenance on the wheelchair.
- After removing damaged screws, nuts or special washers; replace them with components that are identical in every respect and screw them in firmly.



ENVIRONMENTAL NOTE

Defective batteries must be returned to the distributor or to Logo Silver to be recycled in accordance with environmental specifications.

2.7. USER REQUIREMENTS

- The use of OUTCHAIR is reserved for competent users. This is why the user must be instructed by qualified personnel authorized by Logo Silver for the driving of the OUTCHAIR.
- The user must have read and understood the entirety of this notice.
- Before your first use, practice driving the OUTCHAIR on flat terrain and with good visibility, then increase the difficulties, by crossing obstacles, descents and climbs. This training helps to avoid dangerous situations.
- During forest outings, particularly, be careful not to scratch yourself (the legs, hands, arms ...) with branches, stones or any other object on your path.
- It is strongly advised to use a helmet, gloves, boots and long pants especially when going off-road.
- When you are on the public road, sitting in your chair, you are difficult for motorists to see. Before crossing a street, check that the way is clear and proceed with precaution.
- Drive at low speed in congested or narrow passages such as doors, paths lined with bushes or stones.
- If you have to travel on the road, you must be visible. Your OUTCHAIR should be equipped with signal lights (optional) and you must drive near the exterior edge of the road.



DANGER !

It is forbidden to use the OUTCHAIR in the event of severe fatigue or under the influence of alcohol, medication or any other psychotropic product.

2.8. SAFETY FUNCTIONS



NOTE

In the case of danger, the **OUTCHAIR** may be turned off via the joystick.

- In the case of motor overheating, let the chair cool down before setting off.
- The chargers will switch off automatically as soon as the batteries are charged (the charge indicators will turn green).

2.9. WARNING PLATES AND NAMEPLATES

LOGO SILVER
EUROPE

163 cours Berriat
38000 Grenoble / France

REF: OUTCHAIR S
SN:0000001

02/2021

CE MD

140 kg max. 10° max.

- Reference
- Serial number
- Fabrication date
- CE approval
- Medical device
- Read the instructions before use
- Maximum slope
- Maximum user weight

2.10. ELECTROMAGNETIC COMPATIBILITY

The electromagnetic compatibility of the electronic components of this wheelchair have been tested in accordance with international standards. However, there is a risk of disturbance to the electronic system of the wheelchair in the event of proximity to a source of powerful electromagnetic radiation.

It is necessary to take the following precautions:

- Avoid the immediate proximity of powerful transmitters (radio, television, telephone)
- Check that your transmitters (mobile phones or others) have no influence. If in doubt, only use them when the wheelchair is switched off.

- If your wheelchair moves of its own accord on its own or if the brakes loosen, immediately switch off the wheelchair's electronic system.
- Report all undesirable vehicle movements, or the release of the electric brakes that occur to your supplier.
- The addition to electrical accessories can significantly change the electromagnetic compatibility.

III. CARACTÉRISTIQUES TECHNIQUES

	OUTCHAIR S
Accessibility	Interior and exterior, all terrain
Configuration	4 motorised wheels
General dimensions	length : 1000 mm with legrests
	width : 680 mm
	height : 1430 mm
Seat height	from 550 to 610 mm
Seat width	from 380 to 610 mm
Seat depth	from 380 to 560 mm
Backrest height	from 400 to 710 mm
Armrest height	from 150 mm to 370 mm
Battery weight	66 kg (110Ah)
Wheelchair weight	220 kg with batteries
Maximum user weight	140 kg
Speed	10 km/h
Braking distance	210 cm
Turning radius	110 cm
Half-turn width	240 cm
Static stability	15°
Dynamic stability	10°
Slope enabled	10°
Maximum slope	10°
Obstacle mounting	15 cm
Autonomy	35 km
Motors	350W x 4
Gel batteries	12V 110Ah x 2
Electronics	R-Net
Electric seat inclination	from 0° to 23°
Electric back and leg rests	optional
Battery charging	Via joystick
Front wheels	350 mm
Rear wheels	350 mm
Suspension	front wheel pneumatic shock absorbers

IV. PRODUCT DESCRIPTION

The OUTCHAIR is a compact, all-terrain electric wheelchair. Very efficient and equipped with great mounting capacities, it is ideal for outdoor excursions: paving stones, gravel, roads, paths, forests, sand and snow... It will accompany you everywhere in your urban travels, your nature outings or sporting activities.

- Equipped with 4, 350 W driving wheels. Very efficient, it can reach 10 km / h, surpass obstacles of 15 cm and climb slopes of 10°.
- With its LCD joystick, you switch intuitively between different driving profiles, and easily manage chair settings.
- With its two large capacity batteries, the OUTCHAIR can travel up to 50 km on flat ground.
- Its two air shocks can adjust the suspension in accordance with the user.

The OUTCHAIR is particularly characterised by:

- The possibility of adjusting the inclination of the seat.
- The possibility of adjusting the footrests according to your leg-length and the desired inclination.
- Great ease of transfer thanks to retractable armrests.
- Great autonomy with high capacity batteries.
- Possibility of individual adjustments thanks to options and custom manufacturing.

The many possibilities of equipment or adjustment of the controls allow you to adapt the OUTCHAIR according to the total or partial disability of the lower and upper limbs. It is also necessary to take into account:

- Size and weight (maximum load: 140 Kg).
- The user's physical and mental condition.

The OUTCHAIR's principal components:



Fig. 1

V. TRANSPORT AND STORAGE

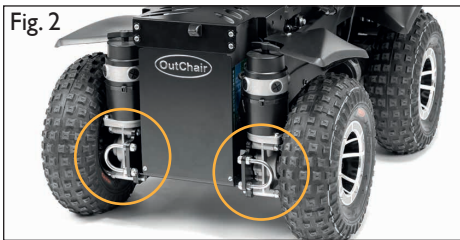


DANGER !
Risk of injury from improper transport!



DANGER !
Under no circumstances should the OUTCHAIR be used as a seat while it is being transported.

The OUTCHAIR must be strapped to the wheelchair anchor points (Fig. 2 and 3) on the trailer or the transport vehicle by adding front and or rear protections. The joystick must be off and the engine brakes locked.



If the OUTCHAIR remains in storage you must:

- Turn off the joystick
- Avoid direct exposure to sunlight (the UV rays accelerate the aging of the tyres).
- Store it in a dry place in temperatures between -5°C and 35°C .
- Verify that the batteries are charged.
- Inflate the tyres to 1.5 bars to prevent their deformation.

VI. DELIVERY AND SETUP

6.1. DELIVERY

The delivery includes:

- The OUTCHAIR
- The user manual
- 1 charger and its power cable for recharging the batteries
- 1 high pressure pump to adjust the air shock absorbers



NOTE

The optional components delivered correspond to the product acquired by the customer. The OUTCHAIR is delivered, ready to be driven. All settings present upon delivery correspond to the indications on the order form or are carried out by the specialist dealer directly on site. The OUTCHAIR is set according to the personal needs of each user. The functioning of components can be verified in accordance with the indications in chapters 7 and 8.

6.2. INITIAL CHARGING AND SETUP

Before use, recharge the batteries with the charger supplied.

Plug the power cable into the front of the joystick for at least 5 hours. The batteries are sufficiently charged when the LEDs are green. See details in chapter 7.10 Battery and charging.

VII. USAGE

The OUTCHAIR is equipped with a joystick controller.

The “PROFILE” button is used to choose between the 3 different driving profiles, which are :

- “Exterior” profile: 4 wheel drive propulsion of the wheelchair, suitable for most terrains with the possibility of maximum speed.
- “Flexible exterior” profile: 4 wheel drive propulsion of the wheelchair, suitable for road type terrain, slightly steep paths, urban environments for more maneuverability when turning. The recommendations for use are identical to the “exterior” profile.
- “Crossing” profile: 4-wheel drive propulsion, suitable for crossing obstacles (a step, a footpath...) with an instantly increased torque and a maximum speed of 5 km / h. It is advisable to use the steering lock in “Crossing” mode.

The joystick can also control special functions via the “MODE” button. (seat tilt, electric leg rests, electric backrest tilt, control environment...).

7.1. “OUTDOOR” DRIVING PROFILE



WARNING !

Please remember recommendations in Safety (part 2).
The authorized maximum speed is 10 km / h.



WARNING !

On flat or hilly terrain, the seat should be positioned as parallel to the ground as possible and the backrest as perpendicular as possible. When descending, the seat should be tilted backwards by 10° (from horizontal) and the backrest 20° to the rear (from vertical).



WARNING !

It is imperative to use the safety belt.

The “PROFILE” button provides access to the “Exterior” and “Flexible exterior” driving profiles. These profiles are to be used in all situations, except when crossing one-off obstacles. The profiles allow a maximum speed of 10 km / h when the selected speed is at maximum and acceleration is programmed to be autonomous, as described in the technical characteristics.

- 5 driving speeds are available. They affect the maximum speed in a straight line but also in bends.
- In a confined space, use a lower speed to maneuver (speeds 2 or 3).
- Do not attempt to mount obstacles greater than 4 cm in “outdoor” mode with speeds above 3 km / h, as this may damage your wheelchair; this also risks you falling.
- On a slope greater than 5°, be careful and adopt a gentle driving style, avoiding sudden movements and sudden braking. Adjust the seat to the most stable position possible. And make sure that the conditions are favorable: sufficient adhesion, no obstacles greater than 4 cm...
- Do not attempt to turn around on a slope greater than 5° on a side slope as you may tip over.
- If you cannot climb a slope, reverse as much as possible, perpendicular to the slope. Limit acceleration and in preference to sufficient momentum. We recommend use the “steering lock” feature to keep the wheels straight.
- Details on the joystick can be found in chapter 7.8

7.2. “CROSSING” DRIVING PROFILE

The “PROFILE” button provides access to the “Crossing” driving profile.

- This profile is limited to 5 km / h when the selected speed is at the maximum, for the safety and comfort of the user.
- This profile should only be used to cross one-off obstacles of more than 4 cm high (footpaths, ...) or uneven ground (hollows, bumps, stones, branches ...).



WARNING !

Please remember the safety recommendations in part 2



WARNING !

Do not attempt to use the “Exterior” or “Flexible exterior” profiles with speeds above 3 km / h to overcome obstacles greater than 4 cm.



WARNING !

It is imperative to wear the seatbelt.

The “Crossing” profile allows you to surmount obstacles of up to 15 cm in length, moving forward at low speeds, because it is programmed for torque and instantaneous power (powerful acceleration).

- It is recommended to use the “Steering lock” function when driving straight forward. (See chapter 8.3. Steering lock).

The maximum speed limits authorized for surmounting obstacles are:

- 1 to 2 km / h while the front wheels climb the object (risk of tipping backwards if the speed is excessive)
- 2 to 4 km / h while the rear wheels climb the obstacle (lack of speed here risks not surmounting the obstacle)
- 1 to 2 km / h during the descent of obstacles (risk of tipping forward)

The procedure for climbing an occasional obstacle such as a footpath is as follows:

- Position yourself perpendicularly in front of the obstacle.
- Drive forward slightly in a straight line in order to align the wheels with the obstacle.
- It is recommended to engage the steering-lock while surmounting an obstacle in order to maintain the straightness of the wheels.
- Approach the obstacle (20 cm minimum) and select the “ crossing” driving profile.
- Set the speed between 3 and 5 in order to have enough speed (this may vary depending on the chair, driving style and weight of the user).
- Adjust the chair with the seat parallel to the ground and the the backrest to a perpendicular position in order to avoid any risk of tipping backwards while the front wheels climb the obstacle.
- Advance at a reduced speed (1 or 2 km/h) for the front wheels to mount.
- In this momentum, when the obstacle is in the middle of the wheelchair, accelerate (3 km/h maximum) to pass the rear wheels. It is necessary to accelerate, in order to have sufficient power to pass the rear wheels.
- When descending an obstacle, position the wheelchair perpendicularly and descend slowly (1 to 2 km / h) forwards.

7.3. STEERING LOCK

The steering lock allows you to lock the right wheels for easier maneuvers in reverse, when surmounting an obstacle, getting the wheelchair into a vehicle or when the ground is slippery... To lock the steering, first put the front wheels as straight as possible and pull the lever upwards. To unlock the steering, push the lever downwards and shift it to the side to prevent it from moving. (Fig. 4)



7.4. MANUAL MOVEMENT

OUTCHAIR motors are equipped with magnetic brakes to secure the static position. They are activated automatically when the controller is in neutral or is off.

To manually move the OUTCHAIR, you must disengage the brakes, located at the rear of each engine. (Fig. 5)

Disengagement of the engine brakes (Fig. 5):

- Switch off the remote.
- Turn the rear right engine lever clockwise and the left rear motor button counter-clockwise.
- Re-engage the engine brakes after each manual movement.

Engagement of the engine brakes (Fig. 5):

- Turn the right engine lever counter-clockwise and the left engine button clockwise.



WARNING !

Disengaged, the engine brakes are off. It is therefore necessary to be careful that the chair does not move in an uncontrolled manner if the terrain is sloped.

WARNING !

Re-engage the engine brakes after each manual movement.

7.5. SETTINGS

7.5.1. Wheelchair settings

Headrest settings

Armrest height settings

Unlocking legrest

Pantograph settings

Legrest angle settings

Legrest length settings



OUTCHAIR with AMYLOR seat

Backrest folding lever

Lumbar adjustment

Backrest incliner

Armrest height settings

Longitudinal armrest position settings

Pantograph settings

Unlocking legrest

Legrest angle settings

Legrest length settings



OUTCHAIR with RECARO seat

7.5.2. DRIVING POSITION

For normal use on flat terrain, uphill and when crossing obstacles, the seat must be positioned as parallel, and the backrest as perpendicular to the ground as possible.

When going downhill, tilt the seat back 10° to the ground and the backrest 20° back from the vertical.

These settings are defined to prevent the user from tipping the chair which could cause injury.

7.5.3. JOYSTICK POSITION

The joystick is mounted on a pantograph which allows it to be folded back to the side armrest, allowing you to position yourself near a table, for example.

7.5.4. SEAT INCLINATION

- The chair is equipped with a tilting seat to allow the user to release the support points (avoiding bedsores) and maximise comfort.
- You can access this setting in the MODE menu by choosing “seat inclination” by scrolling the options to the right or left using the joystick.
- Backward adjustments are performed by pulling the joystick towards you.
- Forward adjustments are performed by pushing the joystick away from you.

7.5.5. FOLDING THE RECARO BACKREST FOR TRANSPORTATION

The upwardly actuated RECARO seat handles allow the seat to be folded frontwards and gain 15 to 20 cm high for transport in a vehicle.

WARNING !

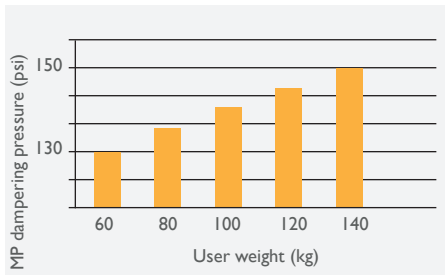
Do not lean too far forwards or backwards. Depending on the terrain, there is a risk of the wheelchair tipping over, follow the recommendations for the normal driving seat position.

See also part 2. Safety.

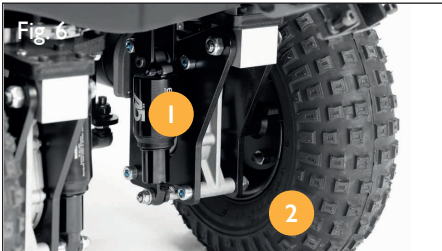
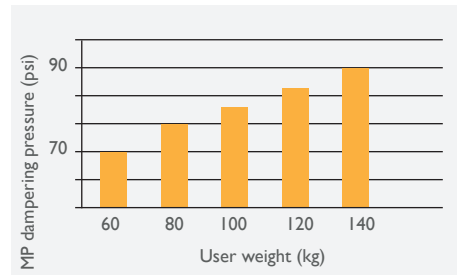
7.5.6. SHOCK-ABSORBERS

The A5RR1 shocks are adjusted via two MTB type valves. The upper valve (MP) must be set between 100 and 150 PSI (never in excess of 180 PSI), this is the main pressure dampening that adjusts the sag of the shock absorber. The lower valve (NP) must be set between 65 and 100 PSI and must not exceed the main pressure, it is the secondary pressure that manages the rebound of the dampening. The pressure must be adjusted with the specialised shock absorber pump. Do not adjust the pressure of the shock absorber with a compressor, there is a strong risk of damaging it.

Recommended main pressure (MP)



Recommended secondary pressure (MP)



- 1. Principale MP pressure valve
- 2. Secondary MP pressure valve



7.5.7. TYRE PRESSURE

The tyre pressure must be adjusted according to the terrain.

Off-road (bumpy terrain, irregularities, fields, paths, mud, sand, snow...) it is recommended to maintain a low tyre pressure (between 0.4 and 0.5 bar), this provides a greater comfort. Less inflated tires provide better traction in mud, sand and snow.

To drive on firmer and smoother surfaces (asphalt), the tyres can be inflated to a maximum pressure of 1.6 bar - depending on the user's weight, preferences and on their driving ability. The table below will assist in adjusting the tyre pressure on asphalt. It is recommended not to inflate the tyres beyond 1.65 bar.

Off-road recommended pressure	Maximum pressure depending on tyre capacity
0,4 bar / 5 psi / 38 kPa Max 0,48 bar / 7 psi / 48 kPa	1,6 bar / 24 psi / 165 kPa

Tyre inflation should be checked weekly. All tyres are fitted with SCHRADER valves and can be inflated with most automotive pumps - by hand, foot, or by using a compressor.



DANGER !

**Over-inflated tyres may explode and cause physical harm.
The recommended pressure is indicated on the side of the tyre.**



WARNING !

Under-inflated tyres can be dangerous and are more exposed to the risk of punctures. Incorrect tyre pressure can be harmful to the performance of the wheelchair and presents risks.

7.6.TRANSFERRING INTO THE CHAIR



DANGER !

Switch off the joystick (lights off), and ensure that the engine brakes are engaged.

- The retractable armrests of the chair allow lateral transfer to remove the armrest, loosen the adjustment knob (Fig. 8).
- The retractable legrest allow for transfer from the front. To remove the legrest, lift it vertically and swivel it out (Fig. 9 and 10).
- You can also transfer from the front by shifting the legrest on the side.
- After a few tries, the user can transfer from their chair to the OUTCHAIR and vice versa in complete autonomy.



7.7. POWERING ON AND OFF



DANGER !

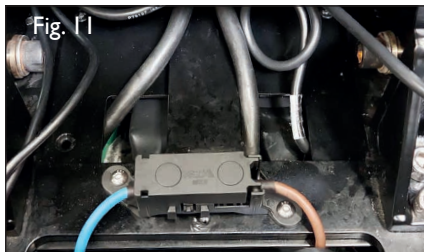
Danger of death from faulty engine brake operation. When using the OUTCHAIR, the engine brakes must be engaged and in working order.

7.7.1. ELECTRICAL SYSTEM PROTECTION

The chair's electronic motor control system is equipped with a current controller which prevents damage to circuits in the event of an overload. When the motors are subjected to significant stresses for a prolonged period, the power supplied by the device is gradually reduced to avoid overheating. This decrease in power can go as far as the chair coming to a complete stop. This phenomenon occurs more quickly when the outside temperature is high. Several minutes of shutdown may then be necessary in order to regain maximum power. When the training is blocked by an insurmountable obstacle and the user insists, causing the engines to remain stalled for more than 10 seconds, then the electronic system automatically cuts off the power.

7.7.2. FUSE

In addition to the protection described in the previous paragraph, the entire wheelchair electrical system is protected against an overload by a fuse found behind the seat.



To replace a fuse damaged by a short circuit, please contact your dealer.

7.7.3. POWERING ON

- Turn on the joystick
- The engine brakes must be engaged in order to move the wheelchair forward via the joystick.

7.7.4. POWERING OFF

- Turn off the joystick
- The engine brakes must be engaged so that the wheelchair does not move.
- Do not leave the wheelchair stationary with flat batteries, this could affect the autonomy of the wheelchair.

7.8. JOYSTICK CONTROLLER

Joystick controls can be customised and different models are available to suit the user's needs.

7.8.1. JOYSTICK

The joystick is used to control the speed and direction of the wheelchair. Push the joystick in the direction of travel, the further you push it, the faster you go.

When you release the joystick, the chair will automatically stop.

7.8.2. JOYSTICK POWER SUPPLY

If the power wheelchair does not move as expected, immediately release the joystick and switch off the chair. Unless the joystick is damaged, the electric wheelchair will stop. If the joystick is not in the neutral (central) position when you start the chair, this may cause the system to malfunction. Release the joystick and restart the chair to reset the system.



WARNING !

Always switch off the wheelchair when remaining still in order to avoid any unexpected movement.

7.8.3. RAIN AND WATER

The joystick housing is not waterproof. The joystick module is splash proof, but can be irreparably damaged if water passes through the rubber seals (such damage is not covered by the warranty).

7.8.4. JOYSTICK CABLE

If for any reason the joystick cable becomes unplugged, do not reconnect by force. The plug is polarized and can only be inserted one way.



WARNING !

Do not insert the plug in the wrong direction, you risk irreparable damage to the electronic system. Make sure to position the cable so that it does not get caught in the seat frame or the base of the wheelchair.

7.8.5. CONTROLLER PROGRAMME

The controller program affects speed, braking, acceleration and deceleration of the chair. The driving mode settings are programmed at the factory. If your reseller changes these settings, please take note.



WARNING !

Do not try to reprogram your chair yourself. This task must be performed by the manufacturer of the electric wheelchair, an authorized representative of the manufacturer or a qualified technician.

7.8.6. USAGE PRECAUTIONS

The R-net cannot take into account the circumstances which place the wheelchair or its controller beyond their specified operating conditions, the user must therefore, follow the following precautions:

Do not drive the wheelchair:

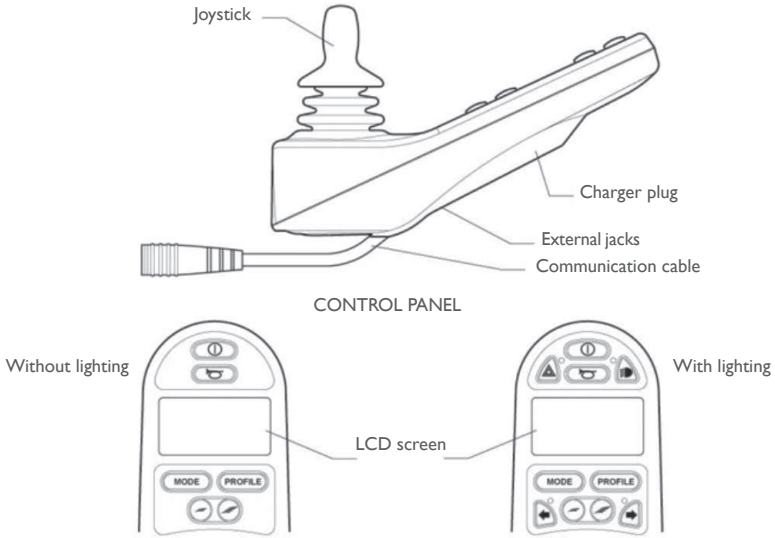
- Beyond the restrictions indicated in the wheelchair manual, for example in regards to the maximum slope, the maximum height of the footpath etc.
- On surfaces where a loss of grip could be dangerous, for example, on a wet grassy slope.
- If it is determined that the controller or other essential components needs to be repaired.



WARNING !

Logo Silver declines all responsibility for any damage resulting from unexpected stopping of the chair or incorrect programming of the control system, improper use of the wheelchair or its control system, or if one of the criteria detailed in this document was not respected.

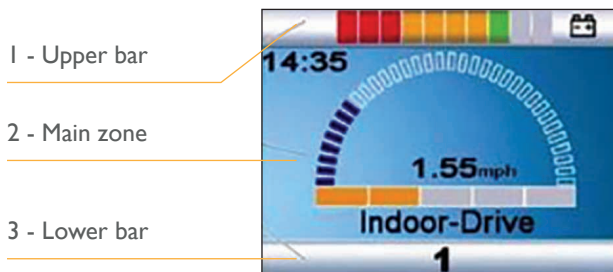
7.8.7. LCD JOYSTICK























Symbol	Commande	Description
	On /off	Allows the R-net control system to be turned on and off. Do not use this button to stop the wheelchair, except in an emergency.
	Horn	Activate the wheelchair horn.
	Mode	Allows the user to browse the operating modes available in the control system.
	Profile	Allows the user to browse the operating profiles available in the control system.
	Decrease/increase	Reduce/increase the maximum speed setting.
	Lights	Allows turning the wheelchair headlights on and off. The LED will illuminate when the headlights are on.
	Warning	Allows you to turn on and off the hazard lights of the chair. The LED will blink when the hazard lights are on.
	Indicators	Allows turning on and off the left and right indicators of the chair. The LED will blink when the left turn signals are on.

7.8.7.1. Control system indicators on the LCD screen

The colour LCD screen is divided into three information areas:

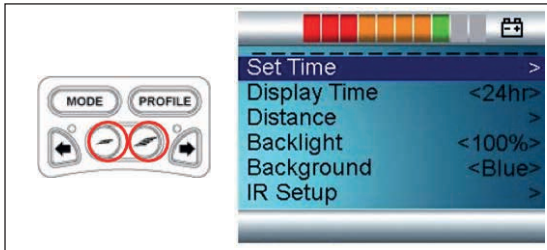


Zone	Symbol	Indication	Description
1		Battery indicator	Displays the remaining charge in the battery and indicates the battery status.
		Light bulb	When more than one controller is installed, the one which currently has control of your electric wheelchair displays this symbol.
2	Indoor-Drive	Profile name	Name of the selected profile displayed.
	14:35	Clock	Displays the current time in digital format. The time can be set by the user.
		Speed	Display in proportion to the speed of the wheelchair.
		Maximum speed indicator	Displays the current maximum speed setting.
	1.55mph	Digital speed indicator	Displays the actual speed of your power wheelchair.
		Limited speed	Limited wheelchair speed
		Inhibition	Inhibited driving of the wheelchair
3	1	Current profile	Digital display of profile currently selected
		Motor temperature	The control system has reduced the power of motors in order to protect them against heat-damage.
		Control system temperature	The control system has reduced the power of motors in order to protect them against heat-damage.

Symbol	Indication	Description
	Mode of action	Displays the chair sections selected for movement.
	Bluetooth mode	When Bluetooth mode is activated, the following screen is displayed.
	Message window	R-net control system displays icon warning messages and information messages in a window reserved for messages.
	Restart	The control system requires a restart.
	Timer	The control system is in the process of transferring from a function to another.
	Stand-by	This symbol appears for a short time as the R-net goes on stand-by.
	Tick	The configuration process is successfully completed.
	Cross	The configuration process was unsuccessful.
	E-stop	If you externally switch profiles external while driving your wheelchair or an actuator, the action stops and this symbol is displayed.
	Displaced joystick	If you operate the joystick before or immediately after switching on the control system, this symbol flashes. If you do not return the joystick to the center position within five seconds, your wheelchair will not move. Turn off the control system and turn it back on to reset.
	Locked control system	The control system may be locked by a sequence of joystick movements or by a physical key. "Control system locking" for a detailed description on locking and unlocking procedures.
	Diagnostic screen	The safety circuit is activated to prevent wheelchair movement.

7.8.7.2. Basic programming and configuration

Basic programming can be performed by pressing and holding the speed increase / decrease buttons simultaneously.



Time settings

- Move the joystick once to the right to open the clock settings. Set the time using the joystick.
- Display Format options are 12 hour, 24 hour or off. Move the joystick left or right to browse options.

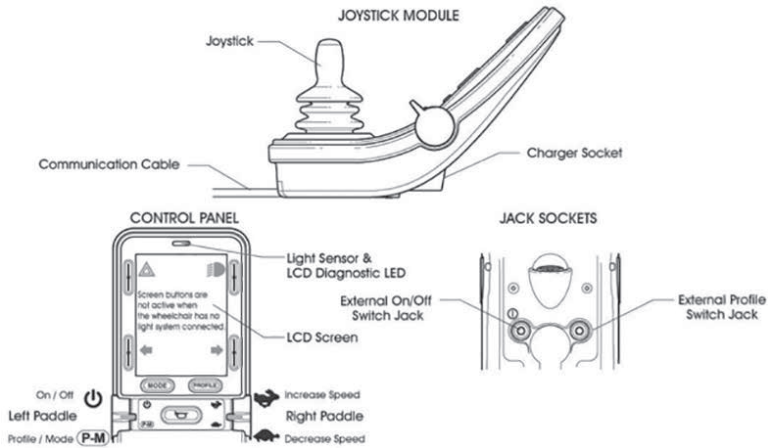
Distance settings








- Total distance: Displays the total distance traveled with your current charge.
- Trip distance: Displays the total distance traveled since the last reset.
- Distance display: Defines whether the total distance or the trip distance should appear.
- Clear trip distance: Move the joystick to the right to clear (reset) the trip distance value.

Other settings

- Exit: Move the joystick to the right to return to the Settings menu.
- Backlight: Sets the intensity of the backlight of the LCD screen. The setting span is 0% to 100% in 10% increments. The adjustment is made by tilting the joystick to the left or to the right.
- Background: Sets the color of the wallpaper. Move the joystick to the left or right to cycle through the options. Choose “Blue” or “White” to display a background of the specified colour in all profiles. Choose “Auto” for a background which will be blue for the slower interior profiles and white for the faster outdoor profiles.
- Exit: Exits the Settings menu to return to normal operation.

7.8.8. CJSM2-BT JOYSTICK (OPTIONAL)



Symbol	Commande	Description
	On/Off	Control operated by pushing forward the left switch.
	Profile/Mode	Allows you to select from the available driving profiles and the different operating mode by pulling back on the left switch.
	Speed	Allows you to define the system speed setting.
	Warning	Used to activate the wheelchair alarm.
	Mode	Allows the user to browse the available operating modes in the control system.
	Profile	Allows the user to browse the available operating profiles in the control system.
	Hazard lights, headlights, left and right indicators	Press the button next to the icon to activate and deactivate the function. Once the function is activated, the icon lights up or flashes. If none of the lighting systems are available on the chair, these buttons will therefore be inactive.

7.8.8.1. Control system indicators on the LCD screen

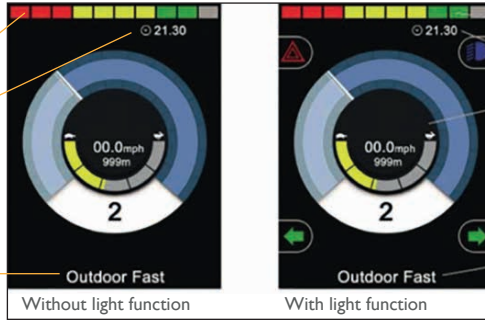
The colour LCD display is divided into four information areas:

1 - Battery indications

2 - Indication icons

3 - Main zone

4 - Lower bar



Zone	Symbol	Indication	Description
1		Battery indicator	Displays the available charge and indicates the battery status: - Fixed: all is well - Slow flashing: charge as soon as possible - Incrementation: charging
2		Light bulb	When more than one controller is installed, the one which currently controls your power wheelchair displays this symbol.
		Bluetooth	This symbol appears when a Bluetooth device is connected to the system. The symbol is blue when connected and white when disconnected.
		Engine temperature	The control system has reduced the power of the motors in order to protect them against heat-damage.
		Control system temperature	The control system has reduced the power in order to protect them against heat-damage.
		Clock	Displays the current time in digital format. The clock may be set by the user.
3	2	Current profile	Digital display of currently selected profile.
		Speed	Display relative to the speed of the wheelchair.
		Maximum speed	Displays the current maximum speed setting.

Zone	Symbol	Indication	Description
3		Digital speed	Digital display of the current speed
		Odometer	Displays distance traveled, or distance traveled since the most recent reset.
		Limited speed	Speed of the wheelchair limited.
		Inhibited	Driving of the wheelchair inhibited.
		Locking	Control system locking.
		Seat settings	Displays the part selected for adjustment, and an arrow.
		Bluetooth	Bluetooth mode activated, one of these screens appears.
		Limp	Displayed if a user switch has been disconnected and if the control system is programmed to continue at reduced speed.
		Restart	The control system requires a restart.
		Timer	The control system is passing from one operation to another.
		Stand-by	Appears for a short time as the R-net switches to stand-by.
		Green tick	Operation successfully completed
		Red cross	Operation unsuccessful
		E-stop	Emergency stop, if you externally switch profiles external while driving your chair or an actuator, the action stops and this symbol is displayed.
		Displaced joystick	Clignote si vous manipulez le joystick avant ou après avoir allumé le système de contrôle. Si vous ne ramenez pas le joystick en position centrale dans les cinq secondes, votre fauteuil ne bougera pas. Éteignez le système de contrôle et rallumez-le pour le réinitialiser.
		Control system locked	Refer to “Locking the Control System” for a detailed description of locking and unlocking procedures.
	Diagnostics	The circuit-breaker is activated in order to prevent the wheelchair from moving.	
4		Profile name	Displays the profile currently selected.

7.8.8.2. Programming of the base configuration

Press the button in the upper left corner of the screen for 1 second (Danger key). This Menu is displayed:



Time settings

- Set the time: tilt the joystick once to the right to open the clock setting. Set the time via the joystick.
- Display format options are 12 hour, 24 hour or off. Tilt the joystick left or right to scroll through the options.

Distance settings

- Total distance: Displays the total distance traveled with your current charge.
- Trip distance: Displays the total distance traveled since the last reset.
- Distance display: Defines whether the total distance or the trip distance should appear.
- Clear trip distance: Move the joystick to the right to clear (reset) the trip distance value.

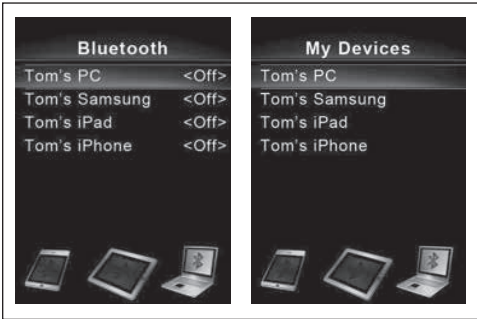
Other settings

- Exit: Move the joystick to the right to return to the Settings menu.
- Backlight: Sets the intensity of the backlight of the LCD screen. The setting span is 0% to 100% in 10% increments. The adjustment is made by tilting the joystick to the left or to the right.
- Background: Sets the color of the wallpaper. Move the joystick to the left or right to cycle through the options. Choose “Blue” or “White” to display a background of the specified colour in all profiles. Choose “Auto” for a background which will be blue for the slower interior profiles and white for the faster outdoor profiles.
- Diagnostic menu: diagnostic information of the control system:



- Exit: Exits the Settings menu to return to normal operation.

7.8.8.4. Pairing the CJS2-BT



Enter the “CJS2 Setup” menu, and select “Bluetooth”. The pre-programmed device names appear. Logo Silver has pre-programmed the following devices:

- iPad
- iPhonePC
- Android device: Press and hold for 1 second the screen button at the top left (danger key) to enter the settings menu.

To start the pairing process, turn on the device by pushing the joystick towards the right. After turning on the device, turn on the controller. Select the item that you wish to pair by scrolling down the menu, and select the device by pushing the joystick to the right.

7.8.8.5. Discovery mode

- Push the joystick forward for 10 seconds until it rings, then pull it back until it rings. A blinking Bluetooth icon appears on the CJS2 display. This means that the CJS2 is detectable.
- Select the device (e.g. Tom’s iPad) to connect and find the bluetooth devices; this will initiate the connection to R-net. Once the connection is achieved, “Tom’s iPad” will appear in the Connected Devices window and the iPad navigation will be possible using R-net’s CJS2-BT.
- To connect to an additional device (e.g. Tom’s PC), select the device and repeat the above process. A maximum of four devices can be connected.

Selecting different connected devices:

Once the devices are paired, they will remain connected to R-net. When entering “My devices” mode, the last connected device will always be selected in the menu. To select another device, scroll to the desired device and push the joystick left or right. After a few seconds, a Fixed Bluetooth icon will appear on the CJS2 screen, and navigation from the new device can start.

Deactivating connected devices:

To deactivate a connected device and remove it from the menu displayed in “My devices”, select “Bluetooth” in the settings menu. Devices can be deactivated by pushing the joystick to the right. Note: it is not necessary to pair the device again if it is switched on afterwards.

7.8.8.6. Infrared control (IR)

The CJSM2-BT includes an infrared transceiver that can replicate most common infrared remote controls.

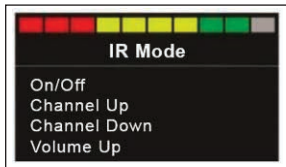
Note: The CJSM2-BT is not compatible with all infrared devices.

These devices include:

Televisions, audiovisual systems, electric blinds, DVD players, soundbars, media managers, VCRs, Blu-rays, auxiliary devices, decoders, projectors, door opening mechanisms, CD players, receivers / preamplifiers, air conditioning systems, home theater systems, switches, lighting ...

If you have questions about a particular device, make sure you have the make, type and model of device. Example: Panasonic, Home theater set, SA-BT set with Blu-ray...

IR Mode:

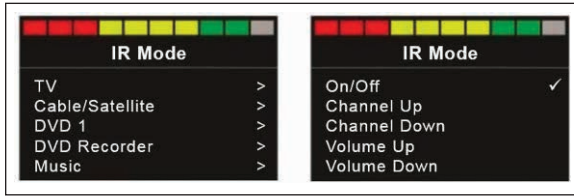


The “IR Mode” is accessible by selecting IR Mode from the menu. This mode will not be available only if the IR codes have been saved in the CJSM2-BT. In IR mode, a list of IR devices is displayed along with the IR commands associated with each device.

For example, in the case of a television, these commands are available: On / Off, Channel Up, Channel Down (previous channel), Volume Up and Volume Down.

When the CJSM2-BT transmits the selected command, it is highlighted on a red background.

IR Setup:



The “IR Setup” menu is accessible from the “Settings Menu”. When you enter the “IR Setup” menu, the default devices are displayed. Select a device to display its commands. If a command is checked, it means that an IR code has been stored. If there is no check mark, no IR code has been registered for this order.

Learning the IR codes

To teach the CJSM2-BT an IR code, enter into the “IR set-up” and select a device.

- Select the command to teach (for example: TV> Channel Up).
- Select “Learn Code” using the right button while the command is highlighted.
- Point the TV remote control at the indicator light on the CJSM2-BT receiver and press the “Channel Up” button on the TV remote control twice. You will hear a “beep” after each press. After the first press, the “2x” on the LCD screen changes to “1x” in order to ask you to confirm the code by pressing the “Channel Up” button once more.
- A green tick indicates that the code was successfully learned.
- A red cross indicates that the code was not successfully learned, in which case, repeat the process.
- Once the code is learned, select “Exit” to return to the TV control menu.
- There is now a check mark next to the newly learned command, as an IR code is now stored for this command.

Note: The first time an infrared code has been registered, restart the CJSM2-BT and make sure it is working properly.

Learning an IR code sequence:

Saving an IR code sequence allows you to execute multiple IR commands using a single command from your CJSM2-BT, such as turning on both DVD and TV.

To save a sequence :

- Select the command to use to start the sequence. Take for example, TV> On / Off to start the sequence.
- Select “Learn Code” using the right button while the command is highlighted.
- Point the TV remote control at the indicator light on the CJSM2-BT receiver and press the “On / Off” button on the TV remote control twice.
- After every successful learning operation, a tick is displayed momentarily on the screen, and select “Learn Code” once more.

- Point the TV remote control at the indicator light on the CJSM2-BT receiver and press the “On / Off” button twice.
- After every successful learning operation, a tick is displayed momentarily on the screen, select “Learn Code” to add a new code to the sequence or “Exit” if the sequence is complete.
- Now, the On / Off command has a tick followed by 3 dots, which indicates that a sequence has been learned.
- Use the same process to learn multi-digit channels. You can choose to store specific channels rather than digits in your “Channel Selection” menu.

Activate and deactivate IR codes

IR codes can be activated or deactivated using the “IR SetUp” menu:

- To deactivate an IR code, select the button on the front panel of CJSM2-BT. Disabled IR codes are displayed with an X next to the highlighted command.
- To activate an IR code, select the + button on the front panel of CJSM2-BT. Enabled IR codes are displayed with a tick next to the highlighted command.


Deleting IR codes

- To remove the infrared code from a command, highlight the specific command in the device’s menu and press the button on the right, then select the option “Delete code”.
- To delete all IR codes from a device, select «Delete All Codes». Then restart the CJSM2-BT to make sure that it is working properly.

7.8.9. LOCKING THE CONTROL SYSTEM

The control system can be locked using a sequence of buttons on the digital keypad or with a physical key. This is a factory setting.

Keyboard locking :

- When the control system is activated, press and hold the “On / Off” button. After one second, the control system will beep.
- Release therefore, the on/off button.
- Tilt the joystick forward until the control system beeps.
- Tilt the joystick back until the control system beeps.
- Release the joystick, a long beep will sound.
- The wheelchair is now locked.
-  The following screen will be displayed the next time the control system is turned on.

Locking the wheelchair:

- If the control system is off, press the “On / Off” button.
- Tilt the joystick forward until the control system beeps.
- Tilt the joystick back until the control system beeps.
- Release the joystick, a long beep will sound.
- The wheelchair is now locked.

Key locking:

Once the control system is turned on, insert and remove a PGDT key (provided) in the charger socket on the joystick module. A short beep will sound.



The following screen will be displayed the next time the control system is turned on.

Unlocking the wheelchair, if the control system is off:

- Push the on/off button
- Insert and remove a supplied PGDT key into the charger socket on the joystick. A short beep will sound. The chair is now unlocked.

7.8.10. SCREEN

- Avoid knocking the control system, most especially the joystick.
- When transporting your wheelchair, make sure that the control system is well protected.
- In order to prolong the life of your control system, avoid extreme conditions as much as possible.
- Regularly clean your control system if it becomes contaminated with food or drink. Use a damp cloth and dish soap diluted in water. Do not use abrasive or alcohol-based cleaning agents.

7.9. DRIVING ADVICE

The OUTCHAIR can be driven on climbs and descents of 10°. To ensure a safe descent, you must reduce your speed according to the gradient, avoid hard braking and don't accelerate too quickly.

Obstacles must be overcome at low speed. Obstacles greater than 15 cm must be avoided.



WARNING !

We recommend that the user wear light-colored clothing or clothing equipped with reflective parts in the dark and / or to use the OUTCHAIR lighting (optional). After powering on (7.4), select the external profile.



WARNING !

Profile selections must be made while stopped.



WARNING !

A rough ground can cause uncontrolled driving. Which is why constant speed adaptation is necessary.



DANGER !

It is forbidden to roll downhill (transverse inclination) greater than 5°.



DANGER !

It is forbidden to take climbs or descents of a greater inclination than 10°.



DANGER !

It is forbidden to mount an object with a height greater than 15 cm with the OUTCHAIR.

7.10. BATTERIES AND RECHARGING

7.10.1. BATTERIES

Your power wheelchair uses long-lasting electrolyte gel batteries which are sealed and require no maintenance. There is no need to check the electrolyte level contained within.



WARNING !

The battery terminals and their accessories contain lead, wash your hands after handling them.



WARNING !

Batteries contain corrosive chemicals. Use only AGM or gel electrolyte batteries to reduce the risk of leakage or explosive conditions.



WARNING !

When changing the batteries, make sure that their terminals do not touch the chair frame.



WARNING !

Automotive batteries and chargers should not be used on an electric wheelchair.

7.10.2. CHARGING THE BATTERIES

Use only the supplied external charger or a charger approved by Logo Silver. Do not use an automotive type battery charger.

The charger will not work if the batteries have been drained to an extremely low voltage. If this happens, contact your dealer for assistance.

Completely charge new batteries before using.

After four or five charge cycles the batteries should function to their maximum potential.

7.10.3. BATTERY BREAKING-IN

It is important to take care of the battery during the “breaking-in” period in order to optimise its lifespan.

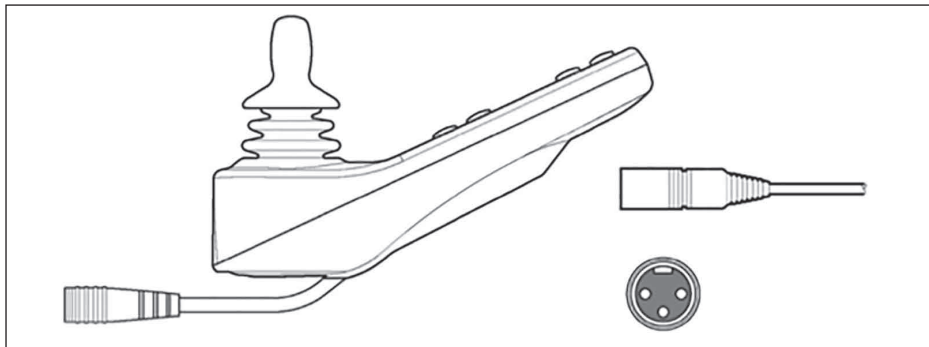
- Ensure that the battery is fully charged before it's first use.
- Use the wheelchair normally, avoiding complete draining of the batteries during the first five cycles.
- Fully charge the battery the first 20 cycles to complete the “breaking-in” process.



NOTE

The capacity of the battery is reduced when it is new, it improves during the breaking-in process.

7.10.4. CHARGING PROCEDURE



- The battery is recharged via a socket located on the joystick module.
- When a charger is plugged in, the module recognizes it and prevents the driving of the wheelchair.
- Ensure that the wheelchair is switched off with the “On / Off” button on the joystick.
- Plug the charger into the socket on the joystick module.
- Connect the charger to the 220 V mains.
- Please see the manual that came with your charger for detailed instructions.

Advice for maintaining your batteries:

- Avoid ultra-deep discharges which shorten battery life.
- Do not leave the batteries with a low charge level for a long period. Recharge them fully-it may take more than eight hours.
- Protect the charger from humidity and extreme temperatures. (recommended temperatures : from 5°C to 30°C)
- Avoid placing the charger near a heat source such as a heater or exposing it to direct sunlight.



WARNING !

Protect batteries from freezing and do not attempt to charge a frozen battery. This may cause physical harm and damage to the battery.



WARNING !

Do not use the charger if it has been dropped or damaged.



WARNING !

The charger can get very hot while charging. Do not place it on a delicate surface.

To optimise the life of your batteries:

- Fully charge the batteries before use.
- Make sure the tyre pressure is suitable for the user's weight and the terrain.
- Avoid stopping too frequently, keep a constant speed.
- Avoid inclinations
- Limit the weight of any baggage loaded onto the wheelchair.



DANGER !

Do not use the monitoring system if the battery is almost drained, or risk leaving the user stranded in a dangerous position, such as in the middle of a road. Logo Silver accepts no responsibility for losses of any kind resulting from a breach of this instruction.

7.10.5. LCD screen battery gauge



The batteries are charged if the battery gauge shows red, yellow, and green.



You should charge the batteries as soon as possible if the battery gauge shows red and yellow.



You should charge the batteries immediately if the battery gauge shows red, steady or flashing slowly.

How does the battery gauge work?

- The battery gauge lets you know how much charge is left in the batteries. The best way for you to use the gauge is to know how it behaves while you are driving the wheelchair.
Like the fuel gauge in a car, it is not entirely accurate, but it will help you avoid running out of "fuel".
- When you turn on the control system, the battery gauge gives an estimate of the remaining charge. The battery gauge gives a more accurate reading after approximately a minute of driving.
- The charge level of your batteries depends on how you use your wheelchair, battery temperature and their age. These factors affect the distance you can travel. All wheelchair batteries will gradually lose their capacity as they age.
- If the battery gauge reading appears to be dropping faster than usual, your batteries may be worn out. When changing used batteries, replace them with batteries of the type recommended by Logo Silver. If you use another type, the battery gauge may be inaccurate.

7.10.6. Public transport

Gel-electrolyte batteries are FAA (Federal Aviation Administration) approved and can be transported safely on planes, buses and trains. Logo Silver recommends, however, that you check the carrier's requirements in advance. When you want to take the plane with your wheelchair, contact the airline and communicate the necessary information.

7.10.7. BATTERY RECYCLING AND DISPOSAL

If a battery is damaged or cracked, please contact your dealer for battery recycling instructions.

VIII. MALFUNCTION AND TROUBLE-SHOOTING

8.1. DIAGNOSIS AND TROUBLE-SHOOTING

Electronics repairs should only be carried out by service approved service personnel. Improper repair can lead to an unsafe wheelchair. Logo Silver is not responsible for any loss or damage that may result from poor repair.

The electronic system is capable of independently detecting abnormalities in the motors, brakes, wiring or electronic module. The safety alert code number is indicated by a flashing error message with said code.

Depending on the situation, the system can authorise or prohibit driving. In some cases, driving becomes possible only at reduced speed.

Safety code display:

When the safety circuit-breaker is tripped preventing the wheelchair from moving, a diagnostic screen appears or an LED starts flashing.

- You can troubleshoot simple problems by performing an online diagnostic at: <http://support.pgdt.com/Online-Diagnostics/Trip-Codes/R-net-Trip-Code-Database.aspx>
- In difficulty, contact your dealer and communicate the information that is displayed on the screen, that they may assist you in solving the problem.

In addition, the following should be verified:

- Turn off the joystick.
- Make sure all connectors are securely connected and that no wires are caught.
- Verify that the engine brakes are engaged.
- Turn the joystick back on and try to drive the wheelchair again. If the circuit-breaker trips again, switch off the wheelchair and do not try to reuse it.

No safety code displayed:

If the wheelchair cannot move or if it is moving at reduced speed, and no security code appears on the screen, it is likely that the locking is activated for safety reasons. Reasons for locking include the toggle, the seat, the reclining backrest, and the castors exiting. Activation of one of these triggers affects the driving performance of the wheelchair. Return the seat to a vertical position, making sure that the seat is horizontal, raise the castors and verify that the problem is resolved.

8.2. SOLVING COMMON PROBLEMS

Problem	Diagnosis	Troubleshooting
Moved joystick	The joystick has been off-center before and during the starting of the control system.	Ensure that the joystick is centered and turn on the control system. It is better not to touch the joystick during start-up.
Weak battery	The tension of the battery is inferior to 16 V.	Check the condition of the batteries and the connections to the control system.
High battery voltage	The tension of the battery exceeds 35 V.	Check the condition of the batteries and the connections to the control system.
Brake failure	Problem with the magnetic brakes or their connection	Check magnetic brakes, cables and connections to the control system. Check that the engine brake is not deactivated (see section 5).
Motor failure	Disconnected motor	Check the condition of the motor and the connections to the control system.
Inhibition activated	One of the inhibition triggers is activated and locked.	Restart the power. This resets the lock mode and may resolve the error. Check all cables and switches connected to the indicated inhibit input.
Stand-by	The control system is on stand-by.	The control system goes into standby when it has remained inactive beyond the defined deactivation time set for standby.
Charging	A charger is connected.	Unplug the charger from the wheelchair.
Faulty connection	Wiring failure between two modules.	Verify all cables and connections as well the absence of pinched points. <ul style="list-style-type: none">• If the cable seems damaged, replace it and restart the wheelchair.• Contact your maintenance agent for a new cable.

IX. MAINTENANCE AND UP-KEEP

9.1. GENERAL RECOMMENDATIONS



NOTE

THE OUTCHAIR must be checked once a year exclusively by Logo Silver approved and qualified personnel .
Only Logo Silver spare parts may be used. Failure to comply with this condition results in loss of warranty. If you have any problems during maintenance, consult your dealer.



DANGER !

If you notice signs such as a noisy engine, a frayed wire harness, damaged connectors, uneven wear and tear on the tyres, unusual movement, a broken part or any other sign of concern between two scheduled maintenance checks, please contact your dealer immediately.



WARNING !

Do not modify or have your electric wheelchair modified in a manner not authorized by Logo Silver. In accordance with the Therapeutic Goods Act (TGA), the person or the group performing the changes is now entirely responsible for the wheelchair.



WARNING !

The configuration of the electrical control box must be performed **ONLY** by a Logo Silver approved individual. The final controller settings may affect other activities of the wheelchair.



WARNING !

If an uncertified individual performs repairs, the warranty will be canceled and the equipment may be damaged and/or cause injury.



WARNING !

Direct exposure to rain or moisture will cause electrical and mechanical malfunctions and risk premature rusting of the wheelchair.

- Avoid exposing your electric wheelchair to moisture (rain, snow, fog, salt-water or cleaning products). Such exposure could damage your electric wheelchair - see section 10.2. Corrosion protection.
- If your electric wheelchair comes into contact with water, sponge it with a cloth, then let it dry for 10-12 hours in a warm room. Verify the correct functioning of the joystick and brakes before using your electric wheelchair.
- Do not use the electric chair in the shower and do not leave it in a bathroom while taking a shower.
- Do not store your electric wheelchair in a humid environment, or outside.
- Avoiding bumping the controller, particularly the joystick.
- Regularly clean the controller.
- High-pressure cleaning is forbidden.
- Position the controller cable so that it cannot get caught in the frame of the seat or the chassis of the electric wheelchair.
- Avoid its exposure to extreme temperatures.
- Do not charge the chair in extreme temperatures.



NOTES

Some parts of the electric wheelchair are vulnerable to extreme temperatures. The batteries may freeze. The temperature at which batteries freeze depends on a number of factors, including but not limited to their chemical composition, their charge level and frequency of use.

When the temperature is high, the electric wheelchair may operate at a reduced speed. This is a safety feature built into the controller to protect the motor and other components.

9.2. CORROSION PROTECTION

The power wheelchair has been manufactured to resist corrosion. However to guarantee the product's durability, prevention and protection, maintenance measures are essential in order to reduce the risk of corrosion on the wheelchair.

The most common causes of corrosion to the electric wheelchair are:

- The removing of paint or the underside caused by stone impacts and other hard objects.
- The accumulation of salt, dirt and moisture on the chassis components.
- Exposure to highly corrosive environments such as the seaside, rivers and streams.

9.2.1. Chipped paint

If the paint on the frame of your electric wheelchair or other metal components is flaking and showing the metal underneath, it is recommended to follow the procedure to repaint the affected area:

- Lightly sand the exposed area to flatten it and remove remaining paint chips. Be sure to remove any surface corrosion.
- Apply a cleaning solvent to remove dust, dirt and fat.
- Apply a primer to the area to be repainted.
- After adequate drying time, apply the touch-up paint ensuring that it covers all exposed areas. When dry, the area should now be protected from corrosion.
- If it is not practical to repaint the area, use a product like 'Rust converter ' to neutralize rust and prevent it from spreading.

9.2.2. Beach, salt water and coastal areas

- Salt water and the surrounding environment are highly corrosive.
- Exposure to coastal areas will increase the risk of corrosion, even if the chair is not used on the beach. Seaside air generally contains a lot more salt than further inland. The highest corrosion rates are found usually about 500 meters from the coast. If you live near the coast or you regularly use the wheelchair near the beach, please consult the sections 10.2.4 and 10.2.5. below for maintenance tips.

9.2.3. Snow and ice, salty roads and paths

Avoid using the wheelchair on salty surfaces if possible, as the salt can have a detrimental effect on the components of the wheelchair. If the chair has been used on wet, icy or salty surfaces, see sections 10.2.4 and 10.2.5.

9.2.4 Cleaning after use.

The chair should not be washed with a water jet. Clean all parts of the chair with a cloth soaked in hot water. It is also recommended to remove all traces of sand or salt. The chair must then be stored in a warm and dry environment.

9.2.5 Preventative maintenance

Before using your chair in a humid or corrosive environment, it is recommended to protect it by carefully coating all metal surfaces with a waterproofing product. This product may for example be an oil-based aerosol (such as WD40) or a dispersing agent based on lanolin (such as Lanotec). This coating should act as a barrier between water and the painted metal surfaces of your electric wheelchair. A lubricant (such as WD40) can be sprayed on the tilt mechanisms in order to protect them.

The underside of the wheelchair (battery compartment and chassis components) can be sprayed using a boom or other approved lifting device.



WARNING !

Your wheelchair is equipped with electric motors and must NEVER be driven in water, in a river, a stream or the sea.

9.3. REGULAR CHECKS

Joystick: Once the control system is off, check that the joystick is not distorted or damaged and returns to center when you release it. Make sure that the bellows of the joystick is not torn or cracked and that all the electrical connections are correctly connected.



DANGER !

Do not use the joystick if the bellows is torn or cracked. Instead, have it replaced immediately.

9.4. WEEKLY CHECKS

Parts	Verification
Electric brakes	<p>This test should be performed on a flat surface with at least one metre of empty space around the chair.</p> <ul style="list-style-type: none"> • Start the control system • Check that the battery gauge stays on or flashes slowly after a second. • Slowly push the joystick forward until you hear the electric brakes come into operation. It is possible that the chair starts to move. • Immediately release the joystick, you should hear each electric brake engage after a few seconds. • Test three times by pushing the joystick backwards, left and right.
Options	If your wheelchair is equipped with headlights, indicators or a cylinder seat adjustment, verify that they are working properly.
Plugs	Verify that all plugs are correctly connected and that they are not damaged.
Cables	Inspect the cables to ensure that they are not damaged.
Joystick bellows	Inspect the rubber boot around the base of the joystick to make sure that it is not damaged or cracked. Visually check only, do not handle the bellows.
Assembly	Make sure the controller is securely attached to your wheelchair. Do not overtighten the screws.
Tyre pressure	Make sure tyre pressure is within specification given in section 7.5.5.
Tyres	Check the wear and tear of the tyres.



WARNING !

If any of these checks reveal a problem, please contact your dealer for repairs.

9.5. MONTHLY CHECKS

Parts	Verification
Side and armrests	<ul style="list-style-type: none"> • Check the fasteners. • Check that the armrests can be adjusted effortlessly. • Verify that the armrests are locked in place.
Legrests	<ul style="list-style-type: none"> • Check that the legrests engage correctly. • Check that the adjustment options function correctly.
Pneumatics	<ul style="list-style-type: none"> • Verify that the tyre pressure is correct. • Tyre-wear varies significantly depending on surfaces. Frequent use on hard surfaces like concrete causes premature wear.
Front wheel track	<ul style="list-style-type: none"> • Check that the steering of the front wheels moves freely. • Check the correct fixation of the elements. • Check that there is not too much play in the pivots.
Electronic system	Check the condition and proper fixing of the wiring and connections.
Seat incliner	<ul style="list-style-type: none"> • Check that the two tilt end stops of the seat are in good condition. • Check that they are both in contact when the seat tilt is at its maximum. • See part 10.9. Seat tilt malfunction.
Mechanical	<ul style="list-style-type: none"> • Check the tightening of screws and bolts • Check that the wheels are correctly attached to their axles • Verify that the rear wheel track rotates correctly. • Check that the rear wheels turn without warping. • Check that there is not too much movement or suspicious noises.

9.6. ANNUAL TESTING

Once a year, have your wheelchair checked by your distributor who should carry out full maintenance. Regular maintenance enables rapid detection of damaged or worn parts and thus assists the normal functioning of the wheelchair.

9.7. REPAIRING A TYRE OR AN AIR CHAMBER



NOTE

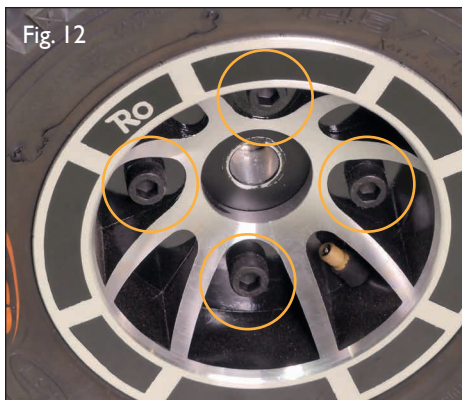
Direct exposure to sunlight (UV) accelerates tyre aging. Regardless of their wear, tyres must be changed every 2 years.

Necessary tools:

- 1 angled male Allen key, for 8 mm screws.
- 1 wedge.
- 1 17 mm flat key.
- 1 large flat-head screwdriver.
- 1 torque wrench.
- 1 repair kit for the inner tube tire or a new inner tube.
- Talcum powder.
- Lacquer block screws.

Wheel disassembly:

- Lift the wheelchair and block it on the side of the wheel concerned.
- Turn off the power (on/off button).
- Unscrew the 4 screws (Fig. 12), after having loosened the 2 locknuts behind the rim.
- Remove the wheel from its hub.



Assembly is carried out in the reverse order:

- Tighten 4 screws to 45 Nm.
- Tighten the two lock-nuts on two of the four screws.



DANGER !

If a wheel is not sufficiently tightened during assembly and / or the locknuts are not set, it may come off while in motion and cause injury.

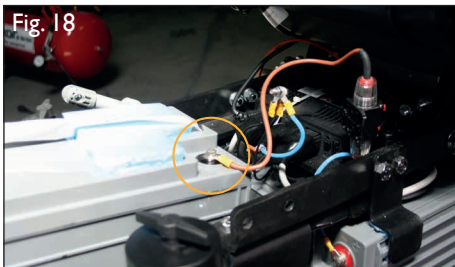
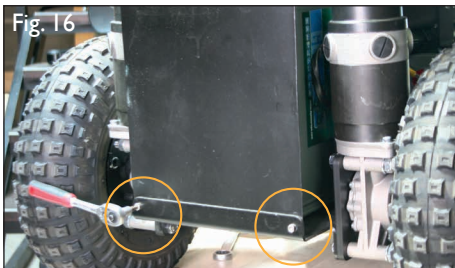
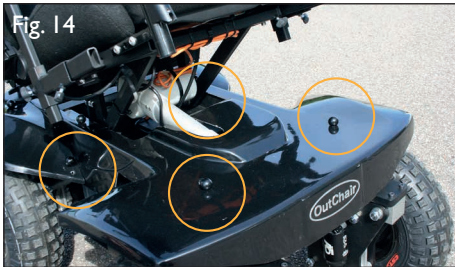
Repairing a tyre or inner tube:

- Disassemble the wheel.
- Unscrew the valve cap.
- Release the air from the tyre by pushing down on the valve bush.
- Unscrew the 4 screws and the 2 rim assembly locknuts.
- Remove half of the rim from the tyre by levering it with a large flat-head screwdriver all the way around between the tyre bead and the rim edge.
- Repeat the operation for the other part of the rim.
- Remove the inner tube from the tyre.
- Repair or replace the inner tube and put it back in place. Ensure that nothing can puncture the inner tube in the tyre. (If the old inner tube must be repaired or if it got wet during the repair, it should be powdered).
- Slightly inflate the inner tube and place it back in the rim.
- Place the outer half of the rim on the tyre and push the valve through the hole destined for said purpose.
- Place the second half of the rim on the tyre and align the holes with the 4 screws (Fig. 12).
- Refit the wheel on the hub by following the previous procedure.
- Inflate the tyre to the prescribed air pressure.
- Screw the valve cap back on.

9.8. REPLACING THE BATTERIES

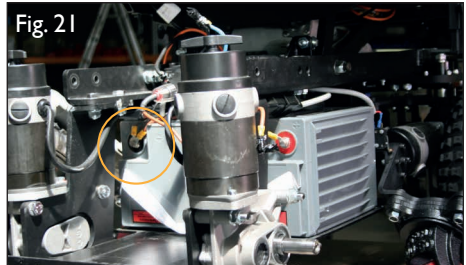
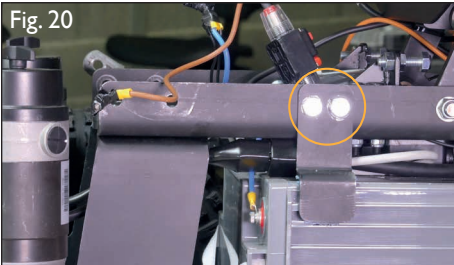
Necessary tools:

- 1 x pair of pleyer
- 1 x N 11 wrench
- 2 x N 10 flat wrenches
- 2 x N 17 flat wrenches
- 1 x wedge
- 1 x 5mm allen key
- 1 x 6mm allen key
- 1 x 8mm allen key
- 1x torque wrench



9.8.1. Removing the batteries

- Remove the paneling by unscrewing the 4 knobs and tilting the seat. (Fig. 14)
- Remove the back cover, by unscrewing the 2 screws on each side. (Fig. 15)
- Remove the back plate by unscrewing the 2 screws, gaining access to the battery. (Fig. 16)
- Before unscrewing the battery terminals, note the position of each cable for their reassembly.
- Unscrew the upper terminal (+ terminal) at the rear of the battery. Be careful not to short circuit the chair (protect the terminals with insulation after removing them). (Fig. 17)
- Move the back of the battery to lay it flat, so that the lower terminal (terminal -) can be unscrewed. (Fig. 18)
- Remove the battery backing.
- Block the rear right of the motor and remove the rear right wheel by following the procedure for wheel disassembly described above. (Fig. 19)
- Unscrew the two screws of the wedge, right battery. (Fig. 20)
- Disconnect the central battery terminals. (Fig. 21)
- Take out the central battery. (Fig. 22)



9.8.2. Replacing the batteries

- Follow the instructions in paragraph 9.8.1 in reverse order. (Removing the batteries) from Fig. 22 to Fig. 14.

9.9. MALFUNCTION OF THE SEAT RECLINER

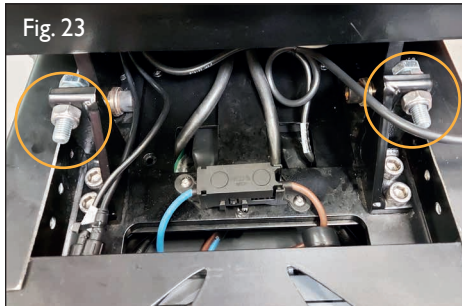
- Every month, check that the two seat tilt stoppers are in good condition and are in contact when the seat is tilted to its maximum (Fig. 23).
- If this is not the case, contact your Logo Silver authorised dealer for adjustment or replacement of the stoppers.



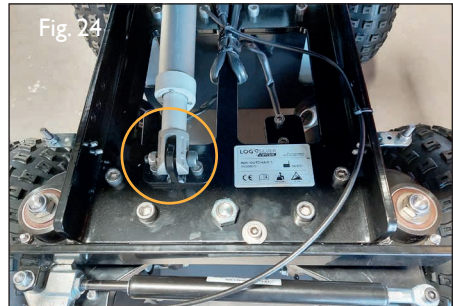
WARNING !

Do not attempt to adjust and / or change these stoppers yourself as this risks changing the maximum position of the seat recliner, potentially causing the chair to tip over.

Seat tilt rear stoppers



Front mounting of the seat tilt cylinder



9.10. STEERING-LOCK MALFUNCTION

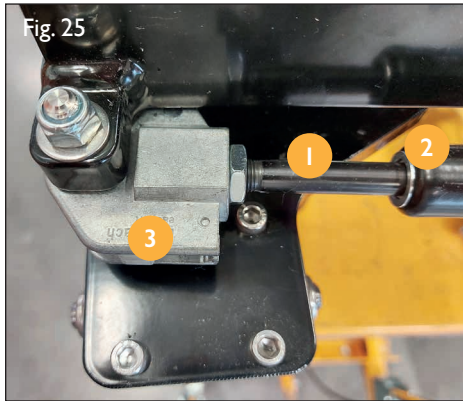
If the steering lock is not effective enough you can adjust the cable tension by turning the adjustment dial on the control.

If this adjustment of the cable tension does not allow the correct adjustment of the direction, you must (Fig. 25):

- Loosen the lock-nut (1).
- Screw in the cylinder rod (2) for a decreased steering lock.
- Or unscrew the cylinder rod (2) for an increased steering lock.
- Tighten the lock nut (1) keeping the rod in the desired position.

If the steering lock remains locked after operating the lever, it is possible that an element (such as the paneling) is interfering with the movement of the cable or the control lever (3).

Cylinder Trigger Head Cable



9.11. VEHICULE CLEANING

Regularly clean the OUTCHAIR regardless of its use or the degree of cleanliness.

When cleaning the vehicle:

- Use exclusively a damp cloth and a mild cleaning product.
- Do not use abrasive products or detergents for cleaning.
- Do not use a high-pressure cleaner.



DANGER !

**Do not use aggressive cleaning products or solvents, nor hard brushes. Water should not come into contact with electronic components and batteries. Risk of damage to the electronic system!
Risk of malfunction!**

X. GUARANTEE

The wheelchair is guaranteed for a period of 2 years from the date of delivery, excluding corrosion, excluding wear on parts (tyres, etc.), excluding normal use, excluding compliance with the instructions of use. The batteries are guaranteed for 1 year.

- The warranty covers any construction or quality defect of the raw material and its components, under normal conditions of use (excluding normal wear of parts).
- The warranty is limited to the repair or free exchange of parts and sub-assemblies which have been recognized as defective (parts, labor and transport), after an inspection carried out by an authorised representative.
- Warranty repairs must be authorised and carried out by an approved supplier. Do not return parts without having obtained prior authorisation.

NOT UNDER WARRANTY:

- Accidental impacts or accidents,
- Negligence,
- Abnormal use,
- Inappropriate maintenance,
- Modifications made without authorisation from the manufacturer,
- Usage which does not comply with the instructions in the user guide supplied with the product or a usage which does not correspond to the specifications of the product,
- A withdrawal / deleting of the serial number,
- Cold storage or batteries left completely discharged for a long period of time..

XI. RECYCLING



ENVIRONMENTAL NOTE

To discard the OUTCHAIR, eliminate all components and materials in respect of the environment and in accordance with waste sorting requirements in place.

- Comply with the provisions in place in your country for the protection of the environment.
- Batteries which can no longer be used are taken back by your dealer or by Logo Silver.
- The OUTCHAIR may be returned to Logo Silver for recycling.

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OutCHAIR

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