



REAL[®] 8100 PLUS EL

ASSEMBLY INSTRUCTIONS, INSTRUCTIONS FOR
USE AND CARE REAL 8100 PLUS EL

Created: 191125
Changed: -

PDF versions of our operating and maintenance instructions with magnification options can be found on the website mercado.se. There you will also find information about accessories that can be mounted on Mercado Medic's chairs as well as any safety messages to the market, prescription support or recalls of products and accessories.

We reserve the right to make changes to this manual and its contents.

TABLE OF CONTENTS

ASSEMBLY FOR USE

FAMILIARISE YOURSELF WITH
YOUR REAL 8100 PLUS EL

IMPORTANT INFORMATION & CLASS

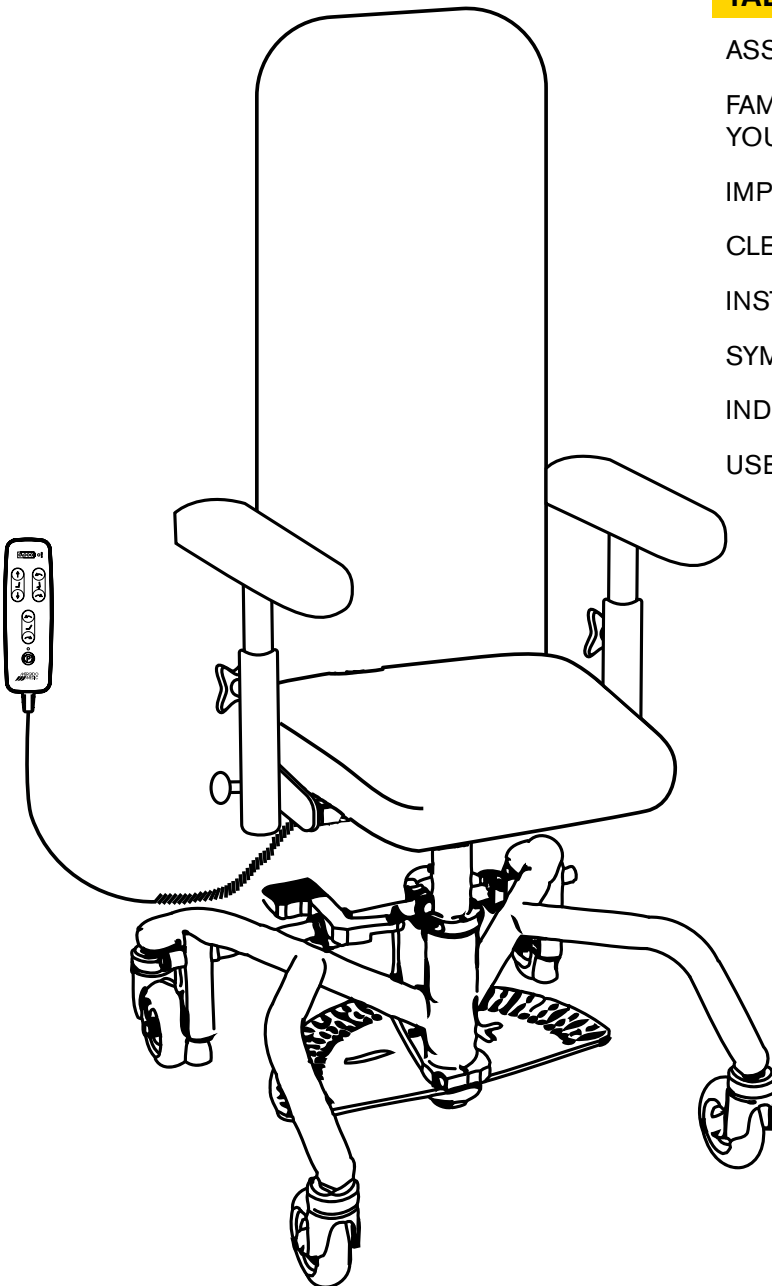
CLEANING & MAINTENANCE

INSTRUCTIONS FOR DESTRUCTION

SYMBOLS

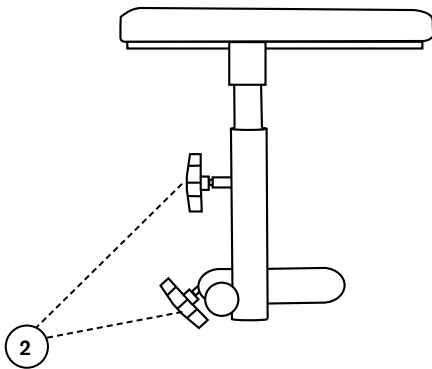
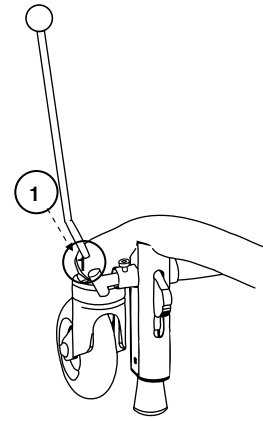
INDIVIDUAL ADJUSTMENT

USER MANUAL



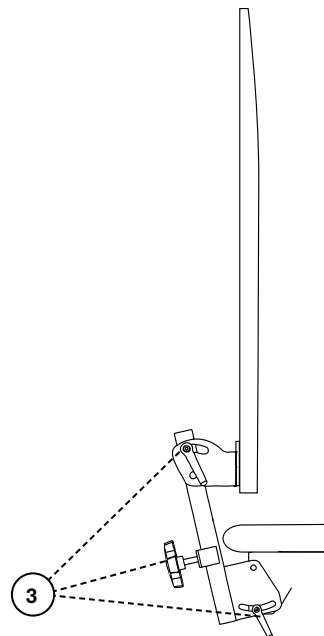
Sufficient competence to use this product safely is obtained by carefully reading these instructions for use and care before using the chair.

Remove the chair from the cardboard box. Remove the brake lever that is held in place with plastic wrap along the brake shaft at the back of the chair. Place the brake lever in the brake lever bracket (1) on the right or left side. Does not apply to electric brake.



Loosen the adjustment knob for the armrest (2). Set the desired level in height and width. Tighten all controls (2).

Adjust the chair back/headrest using the controls (3). Remember to tighten the controls (3) after adjusting.



The chair is now ready for use!

CHECK POINTS BEFORE USE

1. Adjust the armrests to a suitable height and lock the knob for the height adjustment.
2. Fit the backrest tube in the intended bracket and lock the knob for the height adjustment of the backrest.
- 3. Fit the brake lever in the intended bracket (left or right side). Does not apply to electric brakes.**
4. All wheels and knobs must be tightened before sitting in the chair.
- 5. The brake on the chair must always be applied when getting in and out of the chair.
The brake must be checked on a regular basis.**
6. Charge the chair according to the enclosed instructions before using it for the first time (applies to electrical chairs).
7. The chair must not be used with the back and/or armrests removed.

IMPORTANT SAFETY INFORMATION

The REAL chair has replaceable components, accessories and functions with setting options for individual customisation. The chair must only be used by the person for whom, and for the purpose for which, it is intended. The chair is intended for indoor use only and must not be used outdoors. The chair must not be exposed to extreme cold or heat, prolonged sunlight or other radiation. The chair must not be exposed to water, other fluids or chemicals.

*Warning! Metal surfaces may become very hot if they are exposed to direct sunshine.
Read this manual carefully before using the chair for the first time.*

- REAL PLUS EL can affect and be affected by equipment in its immediate vicinity that generates electromagnetic fields; e.g alarm systems, power generators. Mobile phones and similar equipment can also interfere with the control system. Mercado Medic AB recommends that such equipment should not be stored any closer than 3.3 m (~10 ft) from the chair.
- REAL PLUS EL has an electric lifting mechanism that can lift the patient so high that, in the worst case, there will be a risk of falling. If the patient cannot get out of the chair from its highest position, then the seat height should never be set to higher than the position at which the patient's feet touch the ground. The only exception to this is cases where the patient can summon help via alarm or telephone.
- NOTE! The electrical functions on REAL PLUS EL chairs may be used for max. 10% of the time (max 2 mins/20 mins). The electronics measure the activity and shut down the electrical functions if this limit is exceeded.
- Only electrical equipment from Mercado Medic AB may be used on the REAL PLUS EL.
- Warning! Do not plug any accessory, other than those customised by Mercado Medic AB, into the control system's contacts.
- The chair must be operated with care. Before moving off, consideration must be given to the surroundings. Any pets or children on the floor could be easily run into. The chair must only be used to sit on and should not be regarded as a toy by either children or adults.
- Mercado Medic armrests, seats, backrests etc. have been developed and produced to be free from toxic substances and allergens.
- REAL PLUS EL is approved for transportation/storage at temperatures of between -25°C and +60°C (-13°F and 140°F) and up to 90% non-condensing relative humidity.
- Max user weight, REAL PLUS EL 150 kg (330 lbs).
- REAL PLUS is approved to stand with the brake applied on inclines of up to 5 degrees in all directions. If the chair is braked at steeper inclines, it may begin to slide.
- If shipped, the chair must be transported in the intended cardboard box on a pallet.
- If the chair is transported by car, it must be strapped in place using straps over both the frame and the seat, and it should be set to the lowest possible seat height.
- The chair is tested and approved for use between +5°C and +40°C (41°F and 104°F) and 15 to 90%, non-condensing humidity. If the chair has been stored in an environment outside these limits, the chair must be left to acclimatise before use in order to ensure that it can be used safely.
- Repairs and other technical measures may only be carried out by personnel authorised by EMP Living LLC.
- Maximum height 2000m (~6500 ft) above sea level.
- The REAL PLUS must not be moved when the seat is in the raised position.
- Warranty period two (2) years unless otherwise agreed. For warranty claims, please contact EMP Living LLC
- Max service-life ten (10) years.
- REAL PLUS can be supplemented with a variety of accessories. All accessories must be fitted so that there is no risk of small parts coming loose. All the cables must be secured with cable ties to minimise the risk for strangulation.

CLEANING & MAINTENANCE

- The chair should be wiped down and kept clean from dust and dirt.
- The chair should be washed using a disinfectant with PH 7–12 (concentrated), with the exception of the padding.
- Artificial leather has to be washed with soapy water or alternatively wiped off with an alcohol solution; e.g. disinfectant.
- Leather upholstery requires a little extra maintenance;
 - Spills must be wiped up immediately with a damp cloth, never use strong cleaning agents.
 - Prevent upholstery from coming into contact with personal care products, such as make-up, hair gel etc.
 - Do not allow pets on leather furniture, their claws may scratch the leather.
 - Avoid direct and prolonged exposure to sunlight, it may fade the leather in the long run.
- Seat, backrest and other upholstery are not manufactured in sealed materials for functional reasons. When reconditioning, upholstery should be replaced for hygienic reasons.
- The electric lift mechanism should be checked regularly for dust, dirt and stability: Raise the seat to its highest position. Clean with a cloth. Do not use any water or solvents. Then lubricate the cylinder using a thin layer of Teflon or silicone-based grease.

INSTRUCTIONS FOR DESTRUCTION

Combustible:

- Seat
- Back
- Armrest
- Headrest
- Other upholstery sold by Mercado Medic AB

Electronic waste:






- Motors
- Cables
- Control system

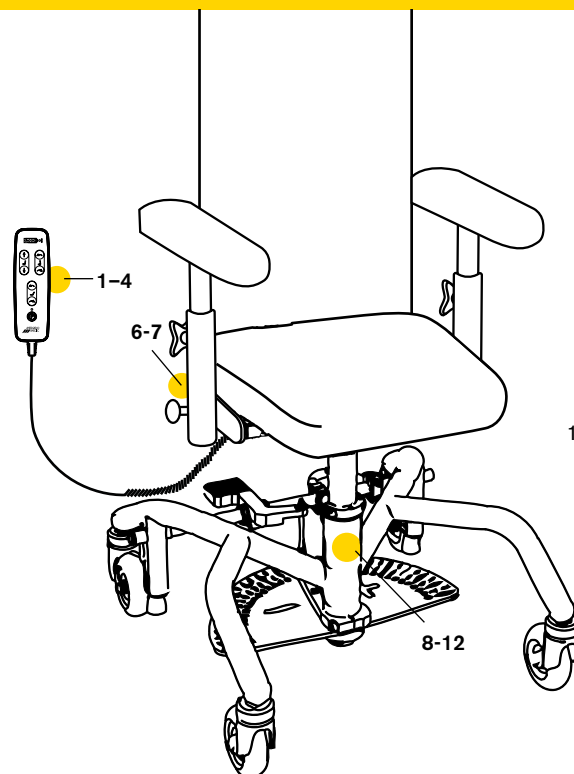
Metal:








- Frame
- Electric lifting mechanism
- Gas pistons
- Gas springs
- Seat frame
- Back recliner
- U-bars and armrest mechanism
- Other metal parts in products sold by EMP Living LLC

NOTE! Battery has to be sorted separately.

SYMBOLS

-  1. Seat height up/down.
-  2. Back tilt forwards/backwards.
-  3. Back recliner forwards/backwards.
-  4. Activate/release brake
-  5. Risk of crushing. Any risks marked.



- 6. Warning: Read the manual before use. 
- 7. Charge connector.  24VDC
- 8. Separation of source materials 
- 9. The product is part of a recycling process. 
- 10. Product classified as type B applied part in accordance with IEC 60601-1. 
- 11. Max user weight 
- 12. Time in use for electrical functions  INTERMITTENS
2/20 MIN
DUTY CYCLE

WARRANTY

This warranty applies only to products purchased in the United States through our authorized partner EMP Living LLC. Mercado Medic AB warrants this product to be free from any defects in workmanship or material. The warranty only applies to the original purchase and terminates if you transfer, modify or sell the product.

Warranty period:

- Welded metal parts – 10 years
- Gas springs and electric actuators – 2 years
- Other parts – 1 year

The warranty does not apply to normal wear and tear or damage caused by neglect, misuse, accident or improper installation or operation. The warranty does not cover fading, discoloration or natural variations occurring in skai/leatherette, leather and fabrics.

The warranty does not cover damage caused by a carrier of transportation of the product, alterations made by owner, or customer's own material.

If there is a defect within the warranty period you shall send a written notice of the defect to Mercado Medic's US partner EMP Living, LLC. EMP Living LLC and Mercado will decide if the defect is to be repaired or replaced by a new product.

It is mandatory to read the Instructions for use and care carefully for information on correct use and maintenance of the product before beginning using the chair.

EMP Living, LLC. | 14941 NE 147th CT. | Woodinville, WA 98072 | United States | brian@empliving.com

BRAKE

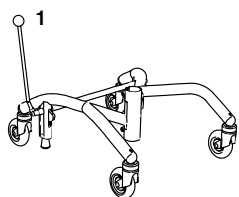
NOTE! The brake on the chair must always be applied when getting in and out of the chair. The brake must be checked on a regular basis. In case of wear, change the brake rubber (part no. 801264). The braking function may be reduced on uneven surfaces.

THERE ARE THREE TYPES OF BRAKE:

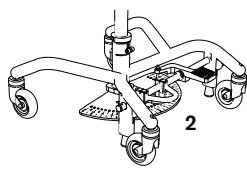
Brake lever, foot brake and electric brake.

CONTROL

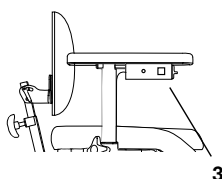
- 1-2. Brake, PLUS-frame 48
move lever backwards, pedal down
3. Electric brake, press button
4. Electric brake, press button
5. Brake lever bracket – to brake the chair even when the armrest is extended in width: loosen the screw on brake lever bracket using a 6 mm Hex key, pull out the bracket, fasten the screw in the next hole and tighten the screw hard using the Hex key.



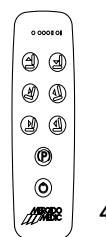
Handbrake



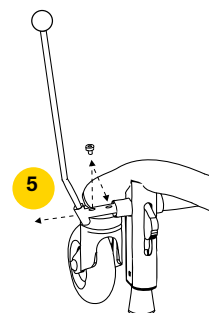
Foot brake



Electric brake (option)



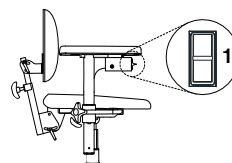
Electric control,
wired remote control



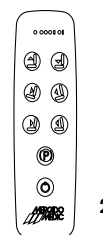
SEAT HEIGHT

CONTROL

1. Seat height, electric control for up/down.
2. Seat height, electric control in separate box.
Left button = up.
Right button = down.



Electric control,
under the armrest

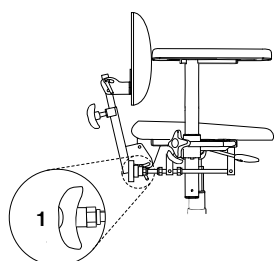


Electric control,
wired remote control

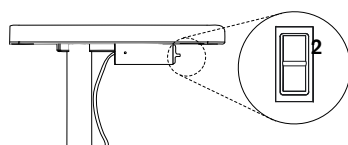
SEAT TILT

CONTROL

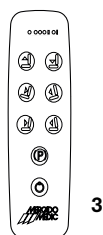
1. Seat tilt. Crank adjustment - turn the knob
2. Seat tilt, electric control for tilting forwards/backwards.
3. Seat tilt, electric control in separate box.
Left button = forwards
Right button = backwards.



Manual control,
crank



Electric control



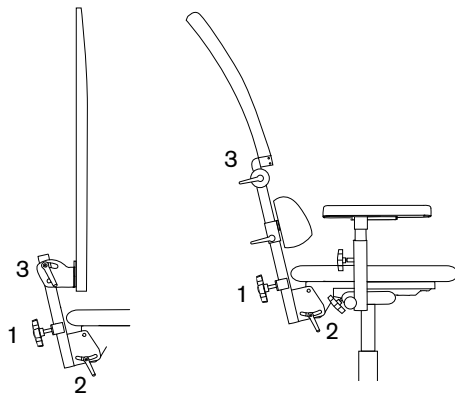
Electric control,
wired remote control

BACKREST MECHANISM

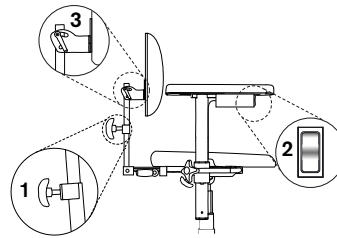
The back is available in a low (33x16 cm) or in two high versions (high back with headrest in polycarbonate(PC) or high back in acrylic plastic(PMMA)).

CONTROL

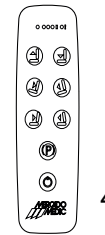
1. Height
2. Backrest mechanism angle
3. Backrest angle
4. Backrest angle electric switch in separate box.
Left button = forwards
Right button = backwards.



Manual controls



Electric control

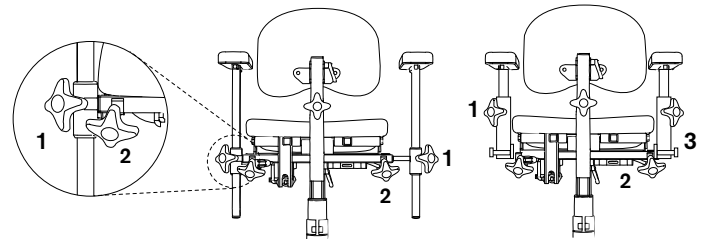


Electric control, wired remote control

ARMREST

CONTROL

1. Height adjustment
2. Width adjustment
3. Reclining

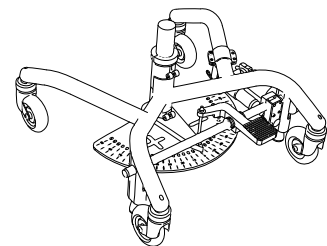


Armrests PLUS

Foldable armrest (Standard)

PROTRACTOR WITH ROTATION RELEASE

REAL 8100 PLUS EL is equipped with rotation. The rotation is released by applying pressure to the footswitch (placed to the right of the brake shaft on the rear of the frame). Rotate the seat to the desired degree and release the footswitch so that the rotation locks in place at the desired position.



CHARGING

Battery charger 2240-24V (part no. 805021) must be used to charge the chair. If using a different charger or different batteries to those which are provided alongside the product by Mercado Medic AB, the warranty and Mercado Medic AB's product liability will cease to be valid for any cases regarding the battery, charging or other electronic aspects of the chair. The battery should be charged on a daily basis. Fully charging the battery on a daily basis will take between 2–6 hours. In order to preserve the battery's service life, it is important that it never becomes fully discharged as this can damage the battery cells. If the chair is equipped with a handheld controller, the battery level can be identified by checking the indication lights (1). On a full charge with a high electrical lifting mechanism, you can raise the chair fully up/down up to 120 times with a load of 80 kg(176 lbs), or up to 90 times with a load of 150 kg(330 lbs).

HOW TO CHARGE THE CHAIR

Connect the contact plug (2) on the charger to the charging outlet (3) (the charging outlet can be placed under the chair's seat or armrest, depending as requested). Then plug the charger into a wall socket. The LED on the charger will indicate that charging is underway. When the LED changes colour from orange to green, the battery is fully charged. None of the electrical functions will work while the chair is charging. The chair must be charged in a safe manner. For this reason, choose a wall socket that is easily accessible to plug the charger into. The charger's cable is 1.8 m and must not be extended. In case of emergency, disconnect the chair from the mains by unplugging the charger from the wall socket. Do not sit on the chair when it is charging.

CONNECTING AND DISCONNECTING THE BATTERY

During longer periods of storage, the battery will automatically be deactivated after seven days. If the handheld controller is used, all of the indicator lights will flash when the battery is deactivated and the power supply can then be disconnected. When the battery is deactivated, it must be charged every four months in order to retain its functionality. If these charging instructions are followed, the battery will maintain sufficient capacity for 4 years. To reconnect the battery to the system again, connect the battery charger to the charging outlet and wall socket. Wait at least five seconds before disconnecting the battery charger. The battery is now activated again and the system is ready for use. It is recommended to leave the charger in place and fully charge the battery after the product has been stored with the battery in its deactivated state.

CHARGING

BEFORE USING FOR FIRST TIME

This product is delivered by Mercado Medic AB with the battery in its deactivated state. The battery must be activated before using for the first time. This is done by connecting the battery charger to the charging outlet and the wall socket. Keep the battery charger connected until the battery is fully charged. This will be indicated by a green light on the charger's LED. If you are using the handheld controller, this will also be indicated by the three green battery LEDs, which will start to flash at the same time. The battery may also need to be charged when it has been inactive as a certain degree of self-discharge always occurs for batteries.

NOTE!

Charging the battery is particularly important on chairs with electric brakes, electric seat tilting and electrical back functions because these functions require a high battery capacity in order to work properly. Guarantee these functions by recharging the battery once a day. The battery may only be changed by personnel authorised by Mercado Medic AB. See assembly instructions, Battery Replacement.

TROUBLESHOOTING FOR ELECTRICAL FUNCTIONS ON YOUR CHAIR

There are no movements at all:

- The battery might need to be charged. See the instructions above.
- An internal error may have been detected by the system, which then shuts down one or all of the function channels and switches on a warning light on the handheld controller. The system will be reset automatically after 10 seconds. If the error has been resolved, then all channels will be unlocked and the warning light will be switched off.
- The button lock may be enabled. To enable or disable the button lock for a certain function, hold in both of the directional arrows on the relevant button for at least three seconds.

The electric functions on the chair are slow:

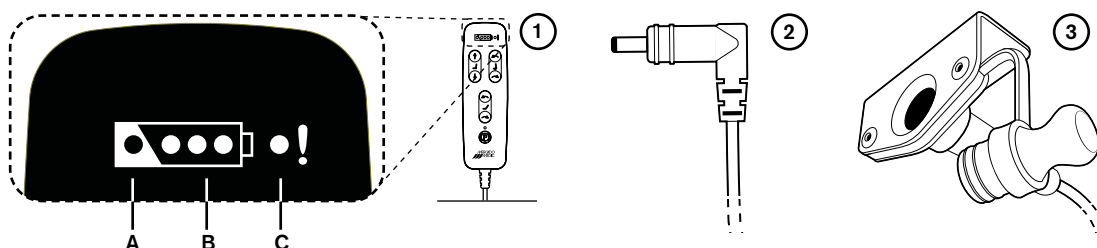
- The battery needs to be charged. See the instructions above.

If none of the above measures are able to resolve the problem, servicing may be required. Please contact your dealer or get in touch with Mercado Medic AB. You will find our contact details on the last page of this manual.

EMERGENCY STOP

If, for whatever reason, the system does not interrupt a movement after the corresponding function button has been released, the movement can be interrupted by pressing down any of the other buttons on the handheld controller. If a fixed control unit is being used instead of a handheld controller, the same emergency stop function can be initiated by pressing down the button for movement in another direction.

- A. Charging is required
- B. Battery Level
- C. Warning light
(internal error/button lock)



**If the chair's battery has reached a critical level and the electronic functions do not work after six hours of charging, charge the chair for a further 24 hours. If the problem persists, please contact the distributor of your chair.*

Dealer in North America



EMP Living, LLC.
14941 NE 147th CT.
Woodinville, WA 98072

Phone: 425-949-7195
Email: info@empliving.com
Web: www.empliving.com

[Room for product label with serial number.]



Mercado Medic AB
14 Tryffelslingan
SE-181 57 Lidingö

Phone +46(0)8 555 143 00
Email info@mercado.se
Web www.mercado.se