

ELECTRONIC POWER ASSIST DEVICE FOR MANUAL WHEELCHAIRS



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User's manual

Contents

Some of the pictures present in this manual may show a model different from the purchased one. However, all instructions are relevant, regardless of the model differences. Total or partial reproduction of this manual is forbidden without written authorisation from Rehateam s.r.l.

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INTRODUCTION

Thank you for choosing a product from the MOTOTRONIK range, and welcome.

At Rehateam s.r.l., the constant pursuit of quality, creativity, and innovation in style and design are the cornerstones of our business.

After many years in the industry, we remain genuinely focused on providing total customer satisfaction.

We have become industry leaders by making excellence and service our top priorities.

We hope that our MOTOTRONIK range models can meet your needs and improve your daily life.

All our models are built from carefully selected materials to offer the highest possible quality combined with fast, reliable service.

We acknowledge that we owe our success to our clients and to those who have believed in us and helped us. Quality is the best differentiator.

FOR THE DEALER

This manual MUST be handed to the user of this device.

BEFORE giving the device to the user, the dealer MUST carry out a general check of all its attachments and check its functionality.

After the check, the dealer should put the stamp of the company he/she works for, name, signature, and the date on the warranty certificate on the last page.

The user should keep this certificate.

If the company's stamp and signature on the warranty certificate is missing, the warranty on the product is void.

Products of the MOTOTRONIK range are intended for patients whose visual, cognition and reading capacities are not impaired. Consequently, the dealer must ensure the patient's suitability.

See also chapter 5 "User requirements".

If the patient is suitable for the use of this device, the dealer must provide precise information on the use of this device.

This document is also available in PDF format, for visually impaired people, too, on our website www.rehateamprogeo.com.

FOR THE USER and/or FOR THE ATTENDANT

BEFORE using this wheelchair, READ this manual in all its parts and keep it for possible future reference.

Check the warranty certificate has been fully filled in by the dealer and keep it in a safe place.

This document is also available in PDF format, for visually impaired people, too, on our website www.rehateamprogeo.com (use the QR code on the side).



PRELIMINARY INFORMATION

This user manual instructs on the use of aids from the "MOTOTRONIK" product series, which is dedicated to improving the mobility of people with disabilities.

All the information, figures and specifications in this document are based on the latest production information, available at the time of publication.

This document is subject to change on the basis of technical innovations without notice.

For technical and safety information, you can contact a Progeo dealer.

You can find the addresses of Progeo dealers on our website www. rehateamprogeo.com in the "OUR DISTRIBUTORS" area.

SYMBOLS USED

The points in the manual marked with the following symbols should be read carefully:



Indicates a potentially hazardous situation, which, if not avoided, can result in death or serious personal injury.



Indicates a prohibited action.



High voltage warning sign; indicates the presence of high voltages.



Indicates a potentially hazardous situation, which, if not avoided, may cause minor personal injuries or property damage.



Indicates important instructions or special information.



danger of burns



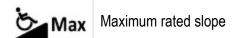
Do not disperse in the environment. Recycling.

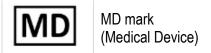


Trapping hazard

PRODUCT LABEL

س	Year/month of production		UDI code (Unique Device Identification)	ØL0∂60	Logo brand Progeo
SN	Serial number	i	Read the user's manual	[type]	Product name FACSIMILE
Max 20 Km/h	Maximum speed	X	Electrical device disposal via separated collection (special disposal, electrical components).	المالية المالية	MD (E
ÅĠ	Maximum load		Not crash tested	[Type] MOTO	TRONIK Z @ [i]
	Manufacturer data	CE	CE marking	(01)083	33172001072(11)210216(21)2021MK00100 1MK00100
	1	1		info@rehateamp	e di Paese (TV) Italy Fax +39.0422.484661





4 INTENDED USE AND ENVIRONMENT OF USE OF THE DEVICE

Intended use

The MOTOTRONIK is a specific device for disabled people using a manual wheelchair.

It is an auxiliary power assist system that is designed to be mounted to most manual wheelchairs, quickly and easily.

When coupling the MOTOTRONIK device to the wheelchair, the small wheels at the front rise off the ground and a single wheel, in the "traction unit", is used for steering.

MOTOTRONIK devices are classified for use with wheelchairs to which they are coupled pursuant to UNI EN 12184.

MOTOTRONIK devices are also compliant with the requirements of class B with a maximum range of about 50 km (for the version with a charged 11.6 Ah battery, on a flat course and a user weighing 75 kg). In accordance with the definition of class B of UNI EN 12184, the device is for indoor use and can handle outdoor obstacles.



Any other use or misuse could result in hazardous situations.

Environment of use

MOTOTRONIK series devices are made for use coupled to a manual wheelchair and can be coupled to most manual wheelchairs available on the market. MOTOTRONIK solutions can be used both indoors and outdoors, with the limits stated in this document, and in general with the same limitations set for the use of the manual wheelchair.

Clinical use and types of users

The MOTOTRONIK is not intended for specific clinical use, but as a support to the mobility of persons who use manual wheelchairs. Therefore, bearing in mind the operating precautions described in this document, there are no professional, technical or aptitude pre-requisites for the operation or use of a MOTOTRONIK device.

5 USER REQUIREMENTS

MOTOTRONIK series devices and their accessories can be used independently by a user:

- Who is an adult or teenager;
- Who is familiar with and has sufficiently practised the proper use of the device;
- Who is aware of the risks related to the use of the device;
- Who has sufficient physical and mental capacity to ensure the appropriate safe use of the device.

6 DEVICE LIFETIME

MOTOTRONIK devices are designed to be used on a daily basis, and consequently, they undergo continuous stress that results in the inevitable wear of the parts.

Under normal daily use, the MOTOTRONIK has a lifetime of 5 years OR 25,000 km, whichever is the earlier, provided it receives careful maintenance at the correct intervals.

The lifetime will considerably increase if the wheelchair is used only indoors or not on a daily basis.

7 INSTALLATION OF THE DEVICE



MOTOTRONIK devices supplied by Rehateam s.r.l. must be installed, adjusted and verified in their functionality and safety only on compatible wheelchairs, only by Rehateam s.r.l. or by specialised technicians authorised by Rehateam s.r.l. who decide, under their own responsibility, whether the specific wheelchair can ensure the correct and safe use of MOTOTRONIK.



Before delivering the device to the end user, the supplier delivering the device itself must always make sure that the device is installed correctly and securely. The supplier must also provide the user with the necessary instructions for the correct use of the device.



Any adjustments and/or any modification that is carried out by non-authorised personnel will immediately void the warranty on the product and will relieve Rehateam s.r.l. from any responsibility for any malfunctioning and/or damage due to such adjustments/modifications.



Making modifications to the device is forbidden.



You will find the instructions on how to properly install the device in MOTOTRONIK's SERVICE MANUAL that is available on the website $\underline{\text{www.rehateamprogeo.com}}$

8 SAFETY: WARNINGS AND PRECAUTIONS

This User's Manual is an integral part of the device and must always be available to the user. If it is lost or damaged, contact Rehateam s.r.l.

Should anomalies occur during use such as to affect the safety of the user, the device must not be used and you should promptly contact the technical assistance of the dealer authorised by Rehateam s.r.l. Non-original spare parts and accessories have not been tested by the manufacturer. Therefore, we cannot certify that these components are compliant with the necessary performance and safety requirements. Rehateam s.r.l. is not responsible for any damage caused by using non-original spare parts or accessories.

Notify the manufacturer in the case of serious accidents that occur in relation to the device.

Manufacturer: Rehateam s.r.l., Vicolo Negrelli 5, 31038 Castagnole di Paese TV, Italia, tel. 0039 0422 484657, email: info@rehateamprogeo.com



The user must read this document and have become familiar with its contents before using the device. Rehateam s.r.l. disclaims all responsibility for non-compliance with the content of this document.



During the initial period of use, the user must familiarise themselves with the user guide to avoid potential risks caused by incorrect use.

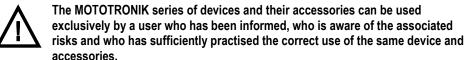
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If the device is not used in compliance with the specifications described herein, the safety level specified by the manufacturer may be reduced.



EMC – The device is compliant with ISO 7176-21:2009 CLAUSE 5.4 on electromagnetic compatibility, but to ensure the user's safety we recommend not using this device in the presence of strong environmental electromagnetic fields.

EMC – during its operation, this device can affect other devices with electromagnetic fields.





The user is responsible for monitoring and maintaining the efficiency of the device and its accessories as indicated in this document.

Periodic maintenance must be carried out to ensure the proper functioning and safety of the equipment.



The use of the MOTOTRONIK device in public spaces (roads, pedestrian walkways, squares, cycle paths, etc.) must comply with the specific regulations of the country in which they are used. Rehateam s.r.l. is not responsible for this purpose for any use that does not comply with the specific regulations in force.



Moderate the speed in relation to the characteristics of the wheelchair, the conditions of the road surface, the lateral inclination of the road and the radius of the curve that you can face.



Always respect the limit of use of the wheelchair and make sure that the same wheelchair to which the MOTOTRONIK device is connected is in perfect condition of use. In particular, always make sure that the rear wheels are correctly tightened (see the user manual for the wheelchair).



It is necessary to pay attention to lateral drifts due to the presence of strong wind, to the transverse slope of the road or to lateral heeling when steering.



It is recommended to go downhill not more than two-thirds of the maximum speed; on slopes avoid sudden braking or acceleration. The stopping distance when going downhill can be significantly greater than on level ground.



On uphill or downhill routes, never attempt to overcome obstacles.



When the vehicle is in motion, avoid moving the centre of gravity, or making sharp movements with the body.

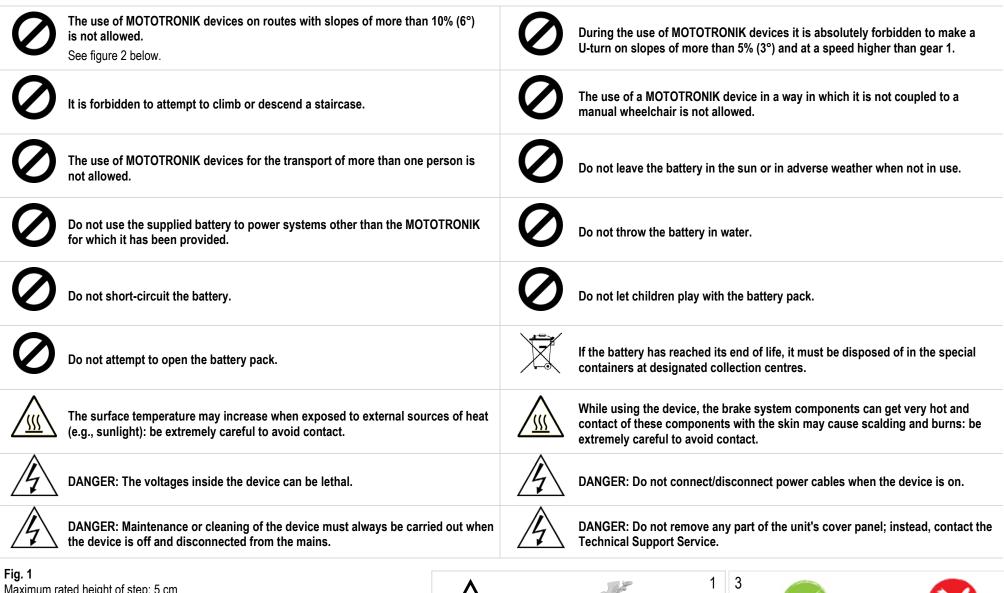


On terrain with uneven surfaces, cobblestones, pavé, paved or unpaved roads with holes and/or wedges, with stones or other obstacles (even those measuring only a few centimetres), pay the utmost attention to the front wheels, the wheelchair footplate and the MOTOTRONIK stand, which could collide with such irregularities and cause damage to the wheelchair and/or result in the user falling from the vehicle with consequent possible traumas/injuries. In such situations, proceed by attempting to avoid such irregularities and, in any case, by travelling at a speed of less than 3 km/h.



When entering a building and/or lift, always keep in mind the steering diameter of your wheelchair equipped with the MOTOTRONIK device. Avoid situations from which you would no longer be able to remove yourself because you are unable to turn your wheelchair.

Using MOTOTRONIK devices increases the risk of tipping when taking corners: reduce your speed before changing direction. Accelerate again only once you exit the curve.	\bigvee	Take narrow passages at the lowest speed and with the utmost caution.
It can be difficult to manoeuvre in front of a lift or in front of the entrance of a building as the steering diameter of the wheelchair increases when it is coupled to the MOTOTRONIK device; this could conflict with the standards of the buildings or the actual size of the entrances.	\triangle	Before each use of your MOTOTRONIK device, make sure that the braking system (disc brake and electric brake) is effective. Perform some low-speed tests.
During the use of MOTOTRONIK devices, it is mandatory to pay the utmost attention to the protection of the braking system; in particular, the user must avoid obstacles (lateral and frontal) that could damage the disc.	\bigvee	Before starting to drive backwards, make sure there is no person, obstacle, stairs or slopes behind the wheelchair.
After each restart, pay maximum attention, before accelerating, to check if the forward or reverse gear is currently selected, especially when close to obstacles, drop-offs, and any other kind of danger. In such cases, turn the device off and manually move the wheelchair to a safe place.	\bigvee	Always apply the correct amount of force to the brake. Squeezing the lever too hard may result in wheel locking; this will increase the braking distance and affect the overall stability.
At high speed, the user may lose control of the wheelchair and it may tip over. Never exceed 20 km/h and avoid impacts in general. In the event of a collision, the user could suffer serious injury to body parts.	0	Absolutely never use the MOTOTRONIK device along tramway, rail and light railway tracks. Pay the utmost attention at level crossings, keeping the wheels of the MOTOTRONIK device and the wheelchair at a safe distance. Failure to comply with this precaution could result in serious damage/injury to the device and the user. The same precautions apply to water drains, manholes and any kind of depression along the route travelled.
You must not permit the use of the MOTOTRONIK to children, incapacitated persons, or to those who are insufficiently familiar with the device or who are physically unsuited to use it.	0	It is forbidden to use the device after consuming alcohol, drugs and in general in the case of alteration of the psychophysical abilities of the user.
It is absolutely forbidden to remove, modify or replace components of the device. If necessary, such operations must be carried out exclusively by technical personnel authorised by Rehateam s.r.l.	0	The use of MOTOTRONIK devices on roads with an unsuitable surface is not allowed.
The use of MOTOTRONIK devices for users plus wheelchair weighing more than 120 kg is not allowed; in addition to that, the user's weight must not exceed the specified maximum load of the wheelchair used.	0	The use of MOTOTRONIK devices in riding over, climbing or descending steps of more than 5 centimetres in height is not allowed. See figure 1 below.
It is forbidden to use the device in low light conditions (the equipment is not suitable for night-time use), with adverse weather conditions (rain, strong wind, etc.) and indeed, outside the environmental conditions of use.	0	It is forbidden to overcome obstacles obliquely: make sure that the rear wheels overcome the obstacle at the same time. Never stop halfway. The correct way to overcome steps and ascents is shown in figure 3 below.
	reduce your speed before changing direction. Accelerate again only once you exit the curve. It can be difficult to manoeuvre in front of a lift or in front of the entrance of a building as the steering diameter of the wheelchair increases when it is coupled to the MOTOTRONIK device; this could conflict with the standards of the buildings or the actual size of the entrances. During the use of MOTOTRONIK devices, it is mandatory to pay the utmost attention to the protection of the braking system; in particular, the user must avoid obstacles (lateral and frontal) that could damage the disc. After each restart, pay maximum attention, before accelerating, to check if the forward or reverse gear is currently selected, especially when close to obstacles, drop-offs, and any other kind of danger. In such cases, turn the device off and manually move the wheelchair to a safe place. At high speed, the user may lose control of the wheelchair and it may tip over. Never exceed 20 km/h and avoid impacts in general. In the event of a collision, the user could suffer serious injury to body parts. You must not permit the use of the MOTOTRONIK to children, incapacitated persons, or to those who are insufficiently familiar with the device or who are physically unsuited to use it. It is absolutely forbidden to remove, modify or replace components of the device. If necessary, such operations must be carried out exclusively by technical personnel authorised by Rehateam s.r.l. The use of MOTOTRONIK devices for users plus wheelchair weighing more than 120 kg is not allowed; in addition to that, the user's weight must not exceed the specified maximum load of the wheelchair used. It is forbidden to use the device in low light conditions (the equipment is not suitable for night-time use), with adverse weather conditions (rain, strong wind,	reduce your speed before changing direction. Accelerate again only once you exit the curve. It can be difficult to manoeuvre in front of a lift or in front of the entrance of a building as the steering diameter of the wheelchair increases when it is coupled to the MOTOTRONIK device; this could conflict with the standards of the buildings or the actual size of the entrances. During the use of MOTOTRONIK devices, it is mandatory to pay the utmost attention to the protection of the braking system; in particular, the user must avoid obstacles (lateral and frontal) that could damage the disc. After each restart, pay maximum attention, before accelerating, to check if the forward or reverse gear is currently selected, especially when close to obstacles, drop-offs, and any other kind of danger. In such cases, turn the device off and manually move the wheelchair to a safe place. At high speed, the user may lose control of the wheelchair and it may tip over. Never exceed 20 km/h and avoid impacts in general. In the event of a collision, the user could suffer serious injury to body parts. You must not permit the use of the MOTOTRONIK to children, incapacitated persons, or to those who are insufficiently familiar with the device or who are physically unsuited to use it. It is absolutely forbidden to remove, modify or replace components of the device. If necessary, such operations must be carried out exclusively by technical personnel authorised by Rehateam s.r.l. The use of MOTOTRONIK devices for users plus wheelchair weighing more than 120 kg is not allowed; in addition to that, the user's weight must not exceed the specified maximum load of the wheelchair used. It is forbidden to use the device in low light conditions (the equipment is not suitable for night-time use), with adverse weather conditions (rain, strong wind,



Maximum rated height of step: 5 cm

Fig. 2 Maximum rated slope uphill/downhill: 10% (6°).

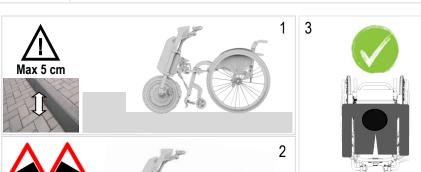


Fig. 3

Correct way to overcome steps and ascents.





In the case of wet or uneven terrain, the value of the maximum rated slope and the value of the maximum rated step height have been decreased to ensure the safety of the user.

9 DESCRIPTION OF PARTS

- 1. Spoiler
- 2. Battery
- 3. Two-stem frame
- 4. Fender
- 5. Steering wheel
- 6. Motor unit
- 7. Brake disc
- 8. Disc brake calliper
- 9. Stand
- 10. Connection frame
- 11. Clamps (fixed to the wheelchair's frame)
- 12. Coupling fork
- 13. Lock lever
- 14. Handlebar
- 15. Manual wheelchair
- 16. On/off and settings switch
- 17. Driving direction and cruise control switch
- 18. Bell
- 19. Display
- 20. Brake lever
- 21. Electronic brake button
- 22. Acceleration lever
- 23. "Tetra" handlebar
- 24. Arm (ambidextrous)
- 25. Arm's fixing clamp
- 26. Coupling block
- 27. Connection frame's central tube
- 28. 12" motorised wheel
- 29. 14" motorised wheel
- 30. Battery charger













10 BATTERY AND BATTERY CHARGER

The batteries supplied with the MOTOTRONIK device are compliant with the EMC 2004/108/EC regulation issued by the European Union regarding the CE Classification. It is, therefore, permitted to transport these batteries on a train, ship, or aeroplane. Despite this classification, they are considered, according to the UN Recommendations on the Transport of Dangerous Goods, as dangerous material and classified as Class 9, respectively as code UN3480 (Lithium Ion Batteries) if transported as single units and UN3481 (Lithium Ion Batteries Contained in Equipment) if transported while connected to the MOTOTRONIK device. This classification determines some restrictions regarding the transportation of the product by ship (IMDG Code) and by plane (IATA DGR) referring to: the quantity of batteries transported, type of transport (if transported as a single unit or connected to the device) and the Watt-hour value (Wh) of each individual battery. In this regard, if you are planning to take your device with you, please directly contact the shipping company or the airline chosen for your travel.

The data of the available battery models provided by Rehateam s.r.l. are listed below.

•	48V 11.6 Ah	(556.8 Kw/h)	autonomy up to 50 km, with a fully charged battery, moderate speed, on a flat route and with a user weighing 75 kg.
•	48V 5.8 Ah	(278.4 Kw/h)	autonomy up to 25 km, with a fully charged battery, moderate speed, on a flat route and with a user weighing 75 kg.
•	48V 2.9 Ah (Fly)	(139.2 Kw/h)	autonomy up to 15 km, with a fully charged battery, moderate speed, on a flat route and with a user weighing 75 kg.

All of these batteries use the same fastening stand and charger.

All of these batteries are "maintenance-free"; however, follow the precautions of chapter 10.4.

10.1 On/off switching and charge level of the battery.



In the upper right side of the battery, you will find the on-and-off switch.

ON

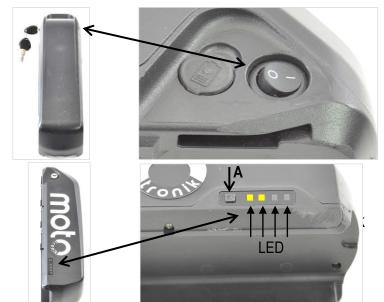
OFF

In the lower left side of the battery, you will find a four-LED charge level indicator.

To display the charge level of the battery, switch it on and press the button **A** and 1, 2, 3 or 4 LED lights will light up.

1 LED = 20% charge; 2 = 50%; 3 = 75%; 4 = 100%.

When you release the button, the LED lights turn off.



Note: you can also check the battery charge level, in percentage, on the display, see chapter 14.1, "Display".

We recommend not to neglect the indication of the charge level.

Rehateam s.r.l. always recommends charging the battery after a long journey or overnight.

Lithium batteries have no memory effect, so they should be recharged without waiting for them to be discharged completely.

10.2 Fitting and removing the battery

In the upper left side of the battery, you will find the key A that controls the lock pin B that lies on the rear side where you also find 6 coupling teeth C and the electric connector D.

You need to insert the battery and hook it to the battery support **E** on the motor unit.

To hook the battery, it is necessary that the pin does not stick out, in the "free" position ...

Should it stick out, in the lock position a, you will not be able to insert the battery. To pull the pin in, turn the key by 180°.

- (1) take hold of the battery and align the 6 coupling teeth with the notches F on the battery support, lean and slide the battery down. The electric connector will insert into the 4 pins G.
- Turn the key to lock the battery (the lock pin will stick out and it will insert into the hole **H** of the support.
- (2) to remove the battery, insert and turn the key, take hold of the battery and slide it upward.





Before each MOTOTRONIK driving session, make sure the battery is locked to the support, then remove the key and store it in a safe space.



If the battery is not locked by means of the locking pin, it may detach and fall to the ground while driving.



With the battery properly locked, but with the key inserted, it is possible, while driving, that the key rotates to the extent that it unlocks the battery.



Never drive the device with the key inserted in the battery.

10.3 Battery charger and charging

To charge the battery, proceed as follows:

Press and hold pressed the button \circ until the device switches off – see chapter 12.3.

Remove the battery, see chapter 10.2.

Flip the protection cap A.

Connect the plug **B** of the battery charger to the socket of the battery.

Connect the battery charger plug to the 100-240V 50Hz power supply.

The LED light on the upper side of the battery charger indicates the status:

No light: disconnected

Red: charging:

Flashing Red: problem, see charger manual.

Green: charging finished, battery is fully charged.

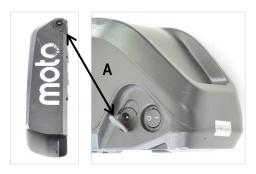
Once the charging is complete, disconnect the plug from the power supply first, and then the battery charger plug from the battery.

Battery charging time (starting with a completely discharged battery).

We suggest keeping the battery charger away from heat sources, in a dry place and protected from sun rays.

(556.8 Kw/h) 5h 00' 48V 11.6 Ah (278.4 Kw/h) 48V 5.8 Ah 2h 30' 48V 2.9 Ah (Fly) (139.2 Kw/h) 1h 15'



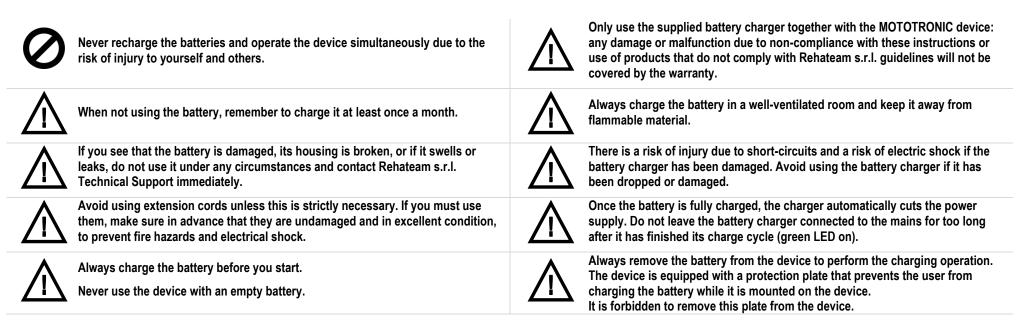








10.4 Warnings for the battery and battery charger



COUPLING AND REMOVING THE DEVICE

The MOTOTRONIK system is composed of three main units:

- (1) motor unit (removable)
- (2) connection frame (removable)
- (3) clamps (fixed to the frame)

The pictures refer to a MOTOTRONIK 12" STANDARD and they are to be considered valid for other models, too.

The reported instructions are intended for a user with good trunk control, good upper-limb control and no control of the lower limbs.

The better the body control, the easier the process will be. On the other hand, the user may not find this process to be easy to carry out and, solely for the coupling and removing process, the help of an assistant may be necessary.



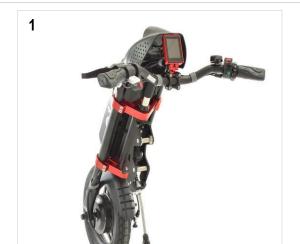
The coupling and removing operation must always be carried out with the system switched off (see chapter 14.3). Failure to comply with this warning may result in damages or injuries for which Rehateam s.r.l. cannot be held responsible.



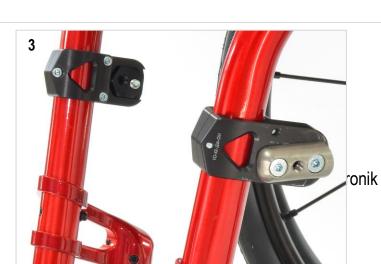
Throughout the coupling and removing phase, position yourself in a flat area, away from any rough/uneven ground and far from personal safety hazards.



Where you find this symbol on the device, pay attention not to pinch/squeeze your hands/fingers.







11.1 Coupling the connection frame

Make sure that the two lock levers **A** are unscrewed so that the room between the washer **B** and the half-moon-shaped block **C** is about 1 cm (or a little wider) to allow the passage of the coupling forks **D**.

If the levers, when unscrewing them, come off or if they have previously been removed, insert them, and screw them until they leave a space of 1 cm.

Grasp the connection frame **E** with one hand or two hands and keep it balanced horizontally with respect to the ground.

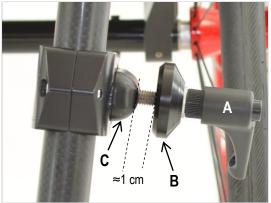
Align the two coupling forks to the half-moon-shaped blocks, insert them and slide them all the way.

Screw the lock levers making sure the washers perfectly fit the round housings **F** in the coupling forks. Finally, firmly tighten the two lock levers.



For greater safety, during each session of use of the MOTOTRONIK, check the fixing of the levers A. In fact, if the levers A were loosened, the system could even suddenly detach from the wheelchair. Failure to comply with this warning may cause serious damage or injury for which Rehateam s.r.l. cannot be held responsible.

















11.2 Coupling the motor unit to the connection frame

Slowly, with your wheelchair, get close to the motor unit (the stand holds it in an upright position) until aligning the hook **G** of the coupling block **H** to the upper axle **I1** of the motor unit central block **L**. Stop the wheelchair with its own parking brakes.

Take hold of the handlebar on both grips and pull it towards yourself so that the axle gets into the hook.

If it fails to get in, the lock double hook **M** may be in "lock position" . To bring the double hook into the "open position" , press the **N** button.

Now, push the handlebar forwards and upward until the double hook **M** inserts and automatically locks over the lower axle **12** of the motor unit central block.

The lock double hook must be in "lock position". Attempt to shake the system to make sure the coupling is secure.

Check that the front wheels are between 3 and 5 cm above the ground.



Before starting to drive the MOTOTRONIK, always check the system is securely locked as mentioned above. Failure to comply with this warning may cause serious damage or injury for which Rehateam s.r.l. cannot be held responsible.

























11.3 Removing the motor unit from the connection frame

STANDARD HANDLEBAR

The device MUST be switched off – see chapters 10.1 and 12.3.

Brake the wheelchair with its own parking brakes.

Push the handlebar forwards a little, then press and keep pressed the brake lever N.

Press the button **O** to open the lock double hook, see chapter 11.2.

The same as for the lever, the two operations described

The button may be hard to push, that is due to the pressure exerted by the wheelchair and by the motor unit right on the axle 12. To release that pressure, keep the brake lever pressed, push the handlebar forwards, and press the button.

Now, after releasing the brake lever, the motor unit detaches from the axle 12 and it moves ahead pivoting on the axle 11 that is still inserted in the hook of the coupling block. Push the motor unit forwards to detach it from the connection frame. The motor will remain in an upright position thanks to the stand.



TETRA HANDLEBAR

above take place at the same time.

Do not brake the wheelchair.

handlebar turn backwards).

Similar to what is described for the standard

handlebar, but with the following observations.

With the "Tetra" handlebar, when pushing the

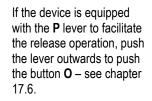
handlebar forward, you operate the brake. Press the button **O** and release the brake (let the



















Mototronik



While removing the MOTOTRONIK, pay maximum attention to the safety of the upper limbs (fingers, hands, arms) as they may be affected by the abrupt movement of the handlebar (or other parts of the device) if it is released too quickly. To avoid such danger, after pressing the release button, gently release the handlebar by lowering the wheelchair gently.

11.4 Removing the connection frame

Once the motor unit is detached, loosen the two levers A just enough to be able to pull off the connecting frame E. Slide the connection frame off.

The two levers can now be screwed and attached to the half-moon-shape blocks **C** or they can be removed and stored in the most practical and/or appropriate location (for example, in the seat canvas pocket).

This operation can be carried out both with a braked wheelchair and with a wheelchair that does not have the brakes on.











11.5 Removing the motor unit coupled to the connection frame

You can also detach the "motor unit/connection frame" assembly in a single quick operation. Stop the wheelchair with its own parking brakes.

Loosen the two levers just enough to be able to remove the connection frame as indicated in the previous chapter. Now, at the same time, push the handlebar forward and move the body backwards several times but gently as if you were trying to do a wheelie until you detach the "motor unit/connection frame" assembly.



Perform this operation very carefully to avoid unbalancing or even falling off the wheelchair.



This operation, although possible and expected, wears more on the coupling forks and half-moon-shape blocks. Please note that the warranty does not apply to parts subject to wear and tear.













(4) To insert the stand, take hold of it and get it close to the motor unit. Then insert the axle **B** into the slot **C** (5) and swing it up until it locks in the housing **D** (6). Check that the lower side of the stand folds towards the motor unit (7). If it folds towards the other direction (8), remove it, and remount it correctly. To check the stand is securely locked, take hold of it and, without pressing the button, try to swing it down: it must not detach.



Before leaning the motor unit with the stand to the ground, make sure the stand is correctly mounted and locked. The lower side of the stand must fold towards the motor unit; otherwise, the motor unit will fall to the ground. Furthermore, in the wrong position, the stand may impede the motor unit from coupling with the connection frame.



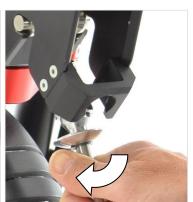
Always be careful when resting the motor unit with the stand on the ground. Uneven terrain (e.g., with holes) or sharp manoeuvring (e.g., fast handlebar rotation) could cause the motor unit to fall.

Rehateam s.r.l. cannot be held responsible for damages due to non-compliance with these warnings.











21











12 **USER INTERFACE**

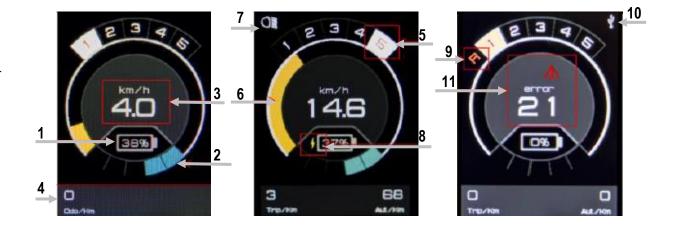
12.1 Display

The device is provided with an LCD display that shows several operative parameters.

- **1** Battery icon: it shows the battery charge level as a percentage.
- **2** Blue bar: it shows the overall charge level divided into 5 sections each representing 20% of the battery level.
- 3 Speed in km/h or mph. In the case of malfunctioning, the speed value will be replaced by the "error" messsage along with the error identification number and a warning symbol (11).
- 4 It shows the values that will alternatively be showed on the display. These values include:

Odo = odometer; Trip = trip (resettable); Aut. = autonomy of the battery; (Watt/W) Power in Watts; Volt/V = voltage in Volts

- 5 Indicates the level of maximum speed you have selected (numbers from 1 to 5).
- **6** A curved bar that graphically shows the speed reached.
- 7 Shows if the optional light is on.
- **8** The lightning symbol indicates when the EBS is charging the battery.
- 9 Indicates the reverse gear is selected ("R" blinking).



10 The USB symbol indicates that the USB port is active.



Any action and/or tampering of the display to modify the performance and the security features of the device is strictly prohibited. The sole and only actions possible are those specified in the sub-chapters of this chapter.

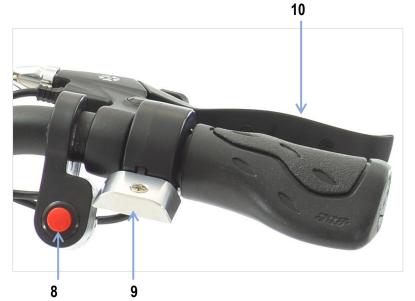
Control tools 12.2





Display on/off button. Headlight (if installed) on/off button. **Selection buttons**

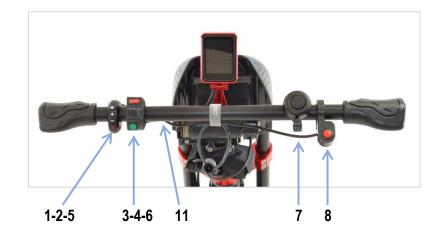
Cruise Control (green button)





3

- 4 Forward/reverse gear (black switch)
- 5 Setting button
- 6 No function (red switch)
- 7 Bell
- 8 EBS electronic brake (red button)
- 9 Accelerator lever
- 10 Disc brake lever
- 11 Handlebar push&pull to brake and accelerate









12.3 Switching on/off the display

Make sure the battery is properly inserted and switched on, see chapter 10.



To switch the display on, press the on/off button once.

To switch the display off, press and keep pressed the on/off button for at least 3 seconds.

The display also switches itself off after approximately 5 minutes of inactivity. The display also switches off when you switch the battery off.



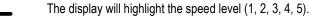
If the (!) symbol appears on the display, it means that, while switching it on, the accelerator button was pressed. This is a safety system that prevents the device from activating the motor accidentally while switching the system on.

With this symbol on the display, the device does not work. To unlock the device, switch the display off and then switch it on without pressing the accelerator button.

12.4 Speed selection



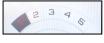
When you press the + button, you increase the speed level; with the — button, you decrease it.



The speed levels are proportional to the maximum speed of level 5.

For instance, if the maximum speed of level 5 is 20 km/h, level 1 will allow for a speed of 4 km/h, 2 will allow 8 km/h, 3 will allow 12 km/h, and 4 will allow 16 km/h. The maximum speed of level 5 is adjustable, see chapter 13.





12.5 Forward/reverse gear

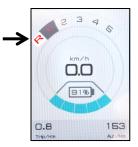


When the switch is in the central position or on the left-hand side, the driving direction is forward.

⇔

When you move the switch to the right-hand side, you engage the reverse gear.

When you engage the reverse gear and throughout the time of use, the system beeps intermittently and the display will indicate the blinking red letter R. As a safety measure, after engaging the reverse gear, the motor does not receive the accelerator control and, therefore, it does not spin the drive wheel. This is particularly useful if, for example, behind the user, there is a flight of stairs that could be taken unintentionally due to an accidental or otherwise unwanted engagement of the reverse gear.



To start driving in reverse gear, it is always necessary to press the accelerator button all the way down, then release it, and finally press it to move at speed within the set limits that are very small compared to the forward gear.

The maximum reverse gear speed is adjustable, see chapter 13.

12.6 Accelerator



Press this lever to accelerate.

This lever allows you to adjust the speed proportionally to what is pressed for both driving directions (forward and reverse).

The motor response to the throttle is adjustable, see chapter 13.

12.7 Mechanical disc brake

The mechanical disc brake is operated by the lever placed on the Standard handlebar or by pushing the Tetra handlebar forward.

The extent of braking depends on the pressure exerted on the lever or handlebars.

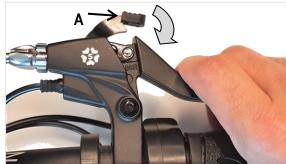
For both Standard and Tetra handlebars, the first short section only activates the electronic brake (EBS), see chapter 12.8.

The brake lever of the Standard handlebar also allows the parking brake function.

To operate the parking brake, press the brake lever, rotate lever **A** towards the brake lever and release the brake lever.

To release the parking brake, press the brake lever, push the **A** lever forward and release the brake lever.











y electrically reducing its speed. During EBS braking, the energy produced will be recovered and used to recharge the he battery symbol on the display, it means that the battery receives the charge.

Press the red button to activate the EBS.

The EBS is also activated when using the mechanical brake.

For the Standard handlebar, when pressing the brake lever, the first short section only drives the EBS while, beyond this point, the disc brake is operated. For the Tetra handlebar, the first short stretch of the forward thrust of the handlebar (braking action) only drives the EBS while, beyond this point, the disc brake is operated. In both cases, the two brakes combine. The intensity of the EBS is adjustable, see chapter 13.



12.9 Cruise Control

The Cruise Control function adapts and allows you to maintain a fixed speed while driving.



Press the green button to activate this function that will make the MOTOTRONIK device proceed at the speed detected at the time of activation.

The Cruise Control function can be deactivated by one of the following modes: 1) by operating the Standard handlebar brake lever or by pushing the Tetra handlebar forward (braking action); 2) by operating the EBS electronic brake (red button).



When using the cruise control function, it is mandatory to pay the utmost attention to road hazards in order to be able to intervene promptly on the control so as to avoid any type of collision that may cause damage to persons and/or property.



The Cruise Control function does NOT deactivate if you press the green button again, neither if you engage the reverse gear, nor if you press the acceleration lever.



Do not start or use the cruise control function on uphill slopes greater than 10% (6°), nor on downhill slopes greater than 5% (3°) (or lower according to the surface condition).



Although the cruise control adapts the speed, there may be a slight difference between the set speed and the actual speed when descending a slope. We recommend setting a lower speed when going downhill.

12.10 USB port to charge your mobile phone

It allows you to charge your mobile phone by plugging it in with its own cable. You can find the USB in the on/off and control switch. Flip the rubber cover up and plug the cable into the port.

M

Press the "M" button once to activate the USB port. The USB symbol will appear on the display when the port is active. (If the symbol does not appear, press the "M" button again. By pressing this button, you can also activate the headlight). The device will now start to charge the mobile phone.

When the recharge function is no longer necessary, press the "M" button to deactivate the USB port. The USB symbol will disappear, and the port has been deactivated.

After charging, disconnect the cable and close the rubber cover.





click





13 SETTINGS

You can change some operative parameters of the MOTOTRONIK and of the display by working on the display itself. All parameters shown are written in English.

To access and modify the setting of the parameters:

Press and hold the "M" button for at least 3 seconds to enter the settings menu.

Once you are in the menu, you can scroll and select the options by using the "+" or "-" buttons.

The selected option is highlighted.

To access the selected option, press the "M" button once.

You can modify the value of the option by using the "+" or "-" buttons.

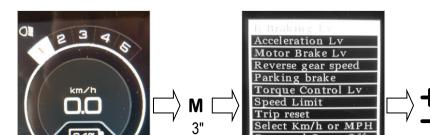
The value of some parameters, even if not confirmed, can be tested without exiting the menu; the speed to perform the test, where applicable, will be the speed level selected before entering the menu (it is not possible to change the speed level at this stage – you need to go back to the initial screen).

To confirm your choice, press the "M" button once; the display will show the settings menu again.

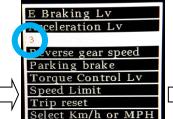
To exit from the menu, press and hold the "M" button for at least 3 seconds.







E Braking Lv
Acceleration Lv
Motor Brake Lv
Reverse gear speed
Parking brake
Torque Control
Speed Limit
Trip reset
Select Km/h or L



Mototronik



Device parametersEach active parameter listed in the settings menu can be changed by following the instructions above. Parameter variation is possible only within the limits set by Rehateam s.r.l.

E Braking Lv Electronic brake level	The electronic brake EBS is a brake that works directly on the device's motor and should not be confused with the motor brake. When you press the red button, or you press the disc brake lever (or you push the "Tetra" handlebar) for a first short stretch, the EBS comes into operation and the device brakes with a certain intensity. This can be used as both the main brake and for complementary braking (in combination with the disc brake and/or the motor brake). The braking power varies from 0 to 10 where 10 corresponds to the maximum and 0 to the minimum (with a value of 0 the braking power is zero).	Trip reset Trip reset	You can reset the distance value in km or miles. YES = reset; NO = do not reset
Acceleration Lv Acceleration level	Adjusts the rate of change of velocity and varies from 0 to 10 where 0 corresponds to the fastest response.	Select km/or MPH Select km/h or Miles/h	To change the speed and distance unit of measurement. Select KM/H (kilometres per hour) or MPH (miles per hour).
Motor Brake Lv Motor brake level	The motor brake acts when the acceleration is released. The extent of the braking action can be adjusted.	Password On or Off NOT ACTIVE	Even if you enter this setting, the ON and OFF values have no effect.

	The braking power varies from 0 to 10 where 10 corresponds to the maximum and 0 to the minimum (with a value of 0 the braking power is zero).		
Reverse gear speed Reverse gear speed	You can adjust the speed of the reverse gear. The speed level varies 0 to 10 where 10 corresponds to the maximum and 0 to the minimum. The reverse gear speed is much lower than the forward gear. Continuing to press the "+" and "-" buttons, values above 10 (15, 25, etc.; if you press "-" after 0, the value 5000 appears) do not increase the speed of the reverse gear.	Reverse sound alarm NOT ACTIVE	Even if you enter this setting, the ON and OFF values have no effect.
Parking Brake NOT ACTIVE	Even if you enter this setting, the ON and OFF values have no effect.	Serial number Serial number	Viewing only. Shows the serial number of the MOTOTRONIK control unit.
Torque Control NOT ACTIVE	Even if you enter this setting, the ON and OFF values have no effect.	Software release Software release	Viewing only. Shows the display software edition.
Speed Limit Speed limit	You can adjust the speed limit with reference to level 5. The other levels (1, 2, 3, and 4) will be automatically calculated according to the maximum speed value you set. Selectable values are expressed in km/h and vary from 0 up. Note: although you can select a speed of 70 km/h, for example, the device will still not exceed the speed set by the manufacturer (according to law). Therefore, compared to the maximum possible speed set by the manufacturer, you can only decrease the value.	Error History Error History	Viewing only. This section is intended for the MOTOTRONIK dealer/distribute and cannot be changed.

14 TYRE PRESSURE

To always ensure correct braking and fluidity characteristics of the MOTOTRONIK device, it is necessary that the tyre is always well inflated.

Remove, with your fingers, the plastic cap, which covers the inflation valve placed on the rim of the wheel.

Use a compressor or pump equipped with a pressure gauge to bring the pressure to the correct value. Screw up the plastic cap.



On a weekly basis, check the correct tyre pressure as indicated on the tyre (an intermediate value between min. and max. is recommended). A correct tyre pressure makes the device much more fluent and easier to move and control.



Do not exceed the pressure indicated on the tyre because you may damage the tyre and the inner tube.

Always respect what is indicated on the tyre.



Tyre used for 12" version 62-203 $12 \frac{1}{2}$ X $2 \frac{1}{4}$



Tyre used for 14" version 57-254 14 X 2.125







15 TRANSPORT IN THE CAR

To load the MOTOTRONIK device into the car, the device and battery must be turned off and it is advisable to disassemble all removable parts.

Hereafter, you will find the recommended sequence of operations to be carried out.

Depending on your physical abilities and also depending on the type of vehicle into which the device is to be loaded, some of these operations may be different.

- Turn the display off (see chapter 12.3).
- Turn the battery off (see chapter 10.1).
- Remove the battery (see chapter 10.2).
- Remove the motor unit from the wheelchair (see chapter 11.3).
- Remove the connection frame from the wheelchair (see chapter 11.4).

- Remove the stand from the motor unit (see chapter 11.6).
- Load the parts individually into the car's boot to balance the weight of the motor unit, take hold, with one hand, of the fork's tube between the two supports **S1 S2** and, with the other hand, of the fork's tube just under the support **S1**.
- To remount the MOTOTRONIK, mount the stand and then follow the instructions above in the opposite sequence.



During the closing phase of MOTORONIK, pay the utmost attention not to damage the (electric and mechanic) wires that run inside the frame of the device. Perform the opening and closing operations slowly, making sure that the wires do not interfere with moving parts, as these could pinch or break.



If some elements of the electric or mechanical system get damaged during the opening and closing of the MOTORONIK device, do NOT under any circumstances use the device and take it immediately to an authorised Rehateam s.r.l. service centre.







16 CLEANING

Constant cleaning of the device, in all its parts, guarantees a longer life and better functionality of the device itself. It is recommended to:

- Before proceeding with the cleaning operations, turn both the battery and the display off.
- Do not use abrasive substances, neither aggressive detergents nor high-pressure water jets.
- Clean the device with a soft damp cloth.
- Carefully dry the device whenever it gets wet.
- If the device becomes smeared, soften the dirt as soon as possible and remove it; then carefully dry the device.
- Carry out external cleaning of the entire device at least once a month and after each outing on muddy terrain.
- Be careful not to wet the electrical parts (battery, display, motor).
- Do not wash parts with running water.
- Dry the parts immediately after washing them with a soft cloth.
- If the electrical parts get wet, let them dry and do not use the device until they are thoroughly dry.

17 ACCESSORIES



The accessories with which the MOTOTRONIK device can be equipped are exclusively those present in the order form. The use of any accessory other than those on the order form shall void the product warranty.

17.1 Full LED headlight



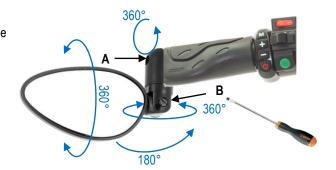
When the display is switched on, press the button on/off once to turn the headlight on or off. When the headlight is switched on, the display shows the headlight symbols.



17.2 Rear view mirror

It can be mounted both on the right and on the left side.

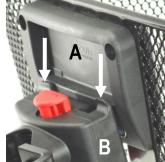
To adjust the mirror, loosen the joints **A** and **B** with a slotted screwdriver, then move it where necessary and finally fix the joints.



17.3 Removable basket

- (1) To mount the basket, fit the support **A** to the hooks of the support **B**, swing it down, press the **C** button and continue the rotation all the way down and release the button. Make sure the basket is safely attached by shaking it.
- (2) To remove it, press the C button, slightly swing the basket upwards and pull it off.















The maximum load of the basket is 7 kg.



Before detaching the motor unit from the wheelchair, it is recommended to empty the basket to avoid dropping the device.

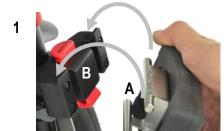
Removable ballasts

Present on both sides of the device, it increases the weight of the drive wheel to increase traction. Especially useful when driving uphill.

(1) To mount the ballast, place the support **A** with the part without opening (the part with the opening must be at the bottom) in the hooks of the support **B**, and swing it down until hooked: the **C** button must be raised.

Make sure the ballast is safely attached by shaking it.

(2) To remove it, press the C button, swing the ballast upwards and pull it off.















Ballast weight: 2.2 kg each.



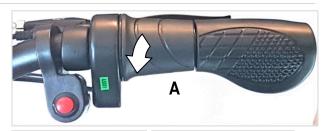
DO NOT use a ballast only on one side; in fact, this would unbalance the steering and could result in loss of control of the vehicle.



Before detaching the motor unit from the wheelchair, it is recommended to remove both ballasts to avoid dropping the device.

17.5 Twist throttle

Replaces the lever accelerator and works by rotating the moving part **A** of the grip. By releasing the moving part, it automatically returns to the stop point.





17.6 Easy-release lever

It helps with releasing the motor unit. Particularly recommended for quadriplegics. Push the lever outwards to press the **0** button and release the motor unit. See chapter 13.3.

17.7 Handlebar stem extension

It allows you to adjust the handlebar in a higher or closer (to the user) position. Range of the extension: from + 130 to 21 mm every 20 mm.

17.8 Carrying bag

Protects the device during transport and/or storage.

The connecting frame and the stand must be disassembled (see chapters 11.4 and 11.6) and inserted into the bag separately.

18 MAINTENANCE

MOTOTRONIK devices should be subjected to periodic maintenance, in this way, the operation of the device can be guaranteed in terms of safety, reliability and effectiveness.

Rehateam s.r.l. is not responsible for any damage due to non-maintenance or insufficient maintenance; for the same reason, the validity of the warranty will not be guaranteed.

Extraordinary maintenance can only be carried out by technicians authorised by Rehateam s.r.l.

Ordinary maintenance

The following routine maintenance checks are recommended:

- at least once a week, the tyre pressure; a deflated tyre affects the device's fluidity, safety and power consumption.
- at least once a month, the tyre condition. To replace the inner tube or the tyre, turn to a technician authorised by Rehateam s.r.l.
- at least once every two months, the fixing of all bolts of all fixing elements.
- at least once a month, the fixing nuts of the wheel's axle.
- check, before each use, the brake system: (the pads, disc, and the braking system in general is subjected to wear and tear and efficiency is weakened.)
- check the good condition of the battery, before each use.

Do not remove any component from the device. Only technicians authorised by Rehateam s.r.l. can remove components from the device.

The only components that can be removed by the user are the battery and the stand.

For replacement of any component, contact only the technicians authorised by Rehateam s.r.l.

Extraordinary maintenance

Have the entire device serviced, at least once a year, and/or whenever a malfunction is detected, by a specialised technician authorised by Rehateam s.r.l.

19 STORAGE

If the MOTOTRONIK device is not used for a medium-long period (over 4 months), store it clean in a dry and covered place and inside a box (preferably that of the original packaging). It is also advisable to switch off and remove the battery from the device. At the time of re-use, it is necessary to carry out a general check of the wheelchair following the same points of chapter 18. Before using the MOTOTRONIK device, reread the instructions of chapter 11 and carry out a precautional driving test to check that there are no defects. In the case of malfunctions, defects, or broken parts, consult an authorised dealer for the necessary repair.

20 TROUBLESHOOTING GUIDE

If you encounter a defect while using your MOTOTRONIK device, you should contact Rehateam s.r.l. or an authorised reseller.

Problem	Cause of the problem	Solution

	The battery is not turned on.	Turn the battery on – see chapter 10.1
The device does not turn on.	The battery is discharged.	Charge the battery – see chapter 10.3
The device does not turn on.	The battery is badly fitted.	Check the fitting of the battery; remove it and refit it again – see chapter 10.2
	General problems.	Turn to a service centre authorised by Rehateam s.r.l.
You feel excessive vibrations while driving.	Some bolts may be loosened.	Turn to a service centre authorised by Rehateam s.r.l.
The display is on, but the device does not work.	The display shows the symbol (!) because you turned it on while pressing the accelerator lever.	Turn the display off and then turn it back on – see chapter 12.3
WOIK.	The display plug is detached.	Connect the display plug or turn to a service centre authorised by Rehateam s.r.l.
	The lock double hook of the central block is in "lock position" while you are trying to couple the motor unit.	Press the release button to turn to lock the double hook into the "open position" – see chapter 11.2
The motor unit does not couple to the connection frame.	The lock double hook of the central block does not move, and it remains in the "open position".	Clean and lubricate the moving parts.
	The rubber knob on the central block of the motor unit is too long.	Adjust the knob.
Counting the compaction frame to the	The lock levers of the coupling forks are not sufficiently loosened.	Loosen the levers as much as necessary to let the forks slide in – see chapter 11.1
Coupling the connection frame to the wheelchair is difficult.	The coupling forks have moved.	Turn to a service centre authorised by Rehateam s.r.l.
wheelchair is difficult.	The clamps or the half-moon-shape supports have moved.	Turn to a service centre authorised by Rehateam s.r.l.
The wheelchair's small wheels touch or are	The coupling block of the connection frame is positioned too high.	Turn to a service centre authorised by Rehateam s.r.l.
too close to the ground.	The device's wheel is deflated.	Inflate the wheel.
	The device's wheel is punctured.	Turn to a service centre authorised by Rehateam s.r.l.
The MOTOTRONIK device is noisy when	The wheel touches the fender.	Check that there is no interference between the tyre and the fender such as mud, pebbles, etc., and remove any such interference.
using it.	The brake's pads touch the disc.	Turn to a service centre authorised by Rehateam s.r.l. to adjust or replace the brake's pads.
	A strange noise can be heard.	Turn to a service centre authorised by Rehateam s.r.l.

ERROR LIST

01 Motor Control Error /Flash Failure 02 Motor Conf	rol Error /Motor Overload	03 Motor Control Error /Over Voltage	04 Motor Control Error /Under	Voltage
05 Motor Control Error /Drive Power Stage Fail	06 Motor Control Error / Drive	over temperature 07 Motor ter	nperature too high	08 Motor Phase Loss

07 Motor temperature too high 05 Motor Control Error /Drive Power Stage Fail **06** Motor Control Error / Drive over temperature

09 Motor Control Error / Motor Feedback malfunction 10 Motor Control Error / Current out of range 11 Motor Control Error / Overspeed 12 Throttle malfunction

15 Motor Control Error / Watchdog Fault 16 Motor Control Error / Microprocessor CPU Fault **13** Cruise button malfunction **14** Brake button malfunction

17 Motor Control Error / Microprocessor ALU Fault 18 Motor Control Error / Application flow Control Fault 19 Motor Control Error / Memory Fault 20 Motor Control Error / CRC Fault

21 Motor Control Error / Master Echo mismatch fault 22 Motor Control Error / Master Parameter out of range 23 Canbus fault



Do not use the MOTOTRONIK device whenever it behaves abnormally; in such a case, immediately contact Rehateam s.r.l. or an authorised reseller.

TECHNICAL DATA

Classification			Dime	ensional data
According to the Medical Devices Directive	Risk class I	Length		400 mm
Protection against electrical hazards	Class II	Width		540 mm
Degree of protection against direct and indirect contact	Туре В	Height		900 mm
Use in oxygen-rich environments	No protection	Weight	of 12" motor unit	10.0 kg.
Operating conditions	Device for continuous operation	Weight	of 14" motor unit	13.0 kg.
		Weight	of connection frame	2.0 – 2.4 kg.
General character	ristics			
Type of propulsion	Electric	Weight	of clamps (pair)	0.5 kg.
Brake	Mechanic disc brake	Weight	of battery 11.6AH	3.2 kg.
Brake disc diameter	160 mm	Weight	of battery 5.8AH	2.0 kg.
Environment of use	Outdoor and indoor	Weight	of battery FLY 2.9AH	1.5 kg.
Performance	S		Environme	ntal condition of use
Available speed	4 – 8 – 12 - 16 - 20 km/h	Maximu	m altitude	2000 m.
Autonomy with battery 11.6Ah	up to 50 km *	Atmosp	neric pressure	700 ÷ 1060 hPa
Autonomy with battery 5.8 Ah	up to 25 km *	Temper	ature	- 25°C to + 40°C
Autonomy with battery FLY 2.9Ah	up to 15 km *		a range between 0	°C and 40°C is recommended for enhanced performance
Maximum rated slope	10% (6°) **	Relative	humidity	30 ÷ 90%
Maximum rated obstacle height	50 mm			
Power of 12" motor	250 W (maximum peak 750 W)		Environmental cond	ition of transport and storage
Power 14" motor	1000 W (maximum peak 1500 W)	Temper	ature	- 40°C to + 65°C
Motor voltage 12" and 14"	48 V			a range between 10°C and 50°C is recommended
Maximum towing load	120 kg ***	Relative	humidity	30 ÷ 90%
Expected service life	5 years or 25,000 km		Refore a long storage period, fully ob-	arge the hattery
With a charged battery, moderate speed, flat course, and	l user weighing 75 kg.	NOTE		
** With charged battery, flat course, and user weighing 75 kg.			neric pressure 700 ÷ 1060 hPa 25°C to + 40°C a range between 0°C and 40°C is recommended for enhanced performance humidity 30 ÷ 90% Environmental condition of transport and storage ature - 40°C to + 65°C a range between 10°C and 50°C is recommended	
*** User's weight plus wheelchair weight.	** User's weight plus wheelchair weight.			ain aπer a long storage period, fully charge the battery.

22 DISPOSAL/RECYCLING OF MATERIALS

When the MOTOTRONIK device is to be disposed of (end of life of the product), it is necessary to consider any local regulations in force for waste disposal or recycling.

Below, a description of the materials used.



- Aluminium: L-shape tubes, central tube of the connection frame, coupling forks, clamps, main frame
- Steel: stand, connection frame tubes, bolts and nuts.
- Plastic: fender, spoiler.
- Rubber/PU: grips, tyre.
- · Packaging: cardboard
- Lithium battery

Contact your authorised disposal centre for disposal or recycling. Alternatively, the MOTOTRONIK device can be returned to the retailer for disposal.



In the case of disposal, be aware of any broken or damaged parts which could create a situation of potential danger of cutting or pinching injuries. It is recommended to use suitable protections.

23 WARRANTY

The warranty agreement exists only between Rehateam s.r.l. and its authorised dealers. For this reason, the client may not make warranty claims directly to Rehateam s.r.l. The following conditions of warranty are therefore reproduced solely for information purposes.

General conditions of the warranty: Rehateam s.r.l. provides assistance on its products on the condition that they have been used correctly and that adequate maintenance has been carried out on all parts of the device. The warranty covers all defects in material and production provided that such defects can be shown to have been caused prior to distribution of the product to the authorised dealer.

How to validate your rights under the warranty: to validate all rights covered under the warranty (on all our products), first of all, the authorised dealer must carry out an inspection, within 7 days of the date of delivery, on all products received, in order to identify possible production defects. Secondly, if any such production defects are noticed, they must confirm this to Rehateam s.r.l. in writing immediately.

Rehateam s.r.l. should also be notified in writing of any defect, which, despite careful inspection, is identified only after the expiry of the abovementioned period.

Warranty period: on this model of wheelchair Rehateam s.r.l. provides a guarantee of 24 months on the traction device and 12 months on the batteries, starting from the date of delivery, excluding those components that are subject to normal wear and tear during everyday use.

Repair of defects and replacement: the guarantee on defects on contact parts is at the complete discretion of Rehateam s.r.l. either for the repair of the defect or for the replacement of the part itself. In cases of simple repairs, the authorised distributor may take action independently to eliminate the defect or bring the defect to the attention of Rehateam s.r.l. in specific cases.

Limits of the warranty: the Rehateam s.r.l. warranty does not cover additional costs (e.g., repair, packing, labour costs, incidental costs etc.). The following are not covered by the warranty:

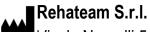
- Damage caused during transportation, not communicated to the transport company at the moment of delivery.
- Repairs carried out by unauthorised dealers or personnel.
- Parts subject to wear and tear.
- Damage to property or injury to persons caused during use of our products.
- Damage caused maliciously or where the buyer is at fault or resulting from incorrect or improper use of the product.
- Damage caused to the device, to objects and to persons resulting from any device or object, which is mounted/added to the device without written authorisation from Rehateam s.r.l.

Excluded from the warranty is any pretext for indemnity except those expressly mentioned in the preceding paragraphs of this chapter.

Rehateam s.r.l. does not accept any responsibility for failure to respect or carry out the conditions agreed in individual contracts if the following circumstances have impeded and/or have made it impossible to respect the terms of the contract itself: embargos, import and export bans imposed on contract products, legal rulings, strikes, lack of raw materials, accidents, or force majeure.



WARRANTY CERTIFICATE



Vicolo Negrelli,5 - 31038 Castagnole di Paese (TV) Italy Tel. +39 0422 484657 ra -Fax +39 0422 484661 http//www.rehateamprogeo.com info@rehateamprogeo.com

Certified company TÜV Rheinland in compliance with directive UNI CEI EN 13485:2016

Place of production: Castagnole di Paese (TV) ITALY

DISTRIBUTOR / DEALER

Stamp of distributor / dealer

Date of delivery to user:

Medical device Class I



PRODUCT LABEL